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PLATFORM

# SÈRIE C-A-F-S

Redutores helicoidais série C  
Redutores ortogonais série A  
Redutores pendulares série F  
Redutores monoestágio série S

 **Bonfiglioli**







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#### Revisões

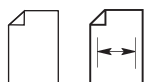
O índice de revisões do catálogo encontra-se na pág. 712 No site [www.bonfiglioli.com](http://www.bonfiglioli.com) estão disponíveis os catálogos nas suas versões mais atualizadas.



## INFORMAÇÕES GERAIS

### 1 SÍMBOLOS E UNIDADES DE MEDIDA

Simbologia	Unidades de Medida	Descrição	Simbologia	Unidades de Medida	Descrição
$A_{N 1,2}$	[N]	Força axial permitida	$n_{1,2}$	[rpm]	Velocidade
$f_s$	–	Fator de serviço	$P_{1,2}$	[kW]	Potência
$f_T$	–	Fator térmico	$P_{N 1,2}$	[kW]	Potência nominal
$f_{TP}$	–	Fator de temperatura	$P_{R 1,2}$	[kW]	Demanda de potência
$i$	–	Relação de transmissão	$R_{C 1,2}$	[N]	Força radial calculada
$l$	–	Fator de duração de ciclo	$R_{N 1,2}$	[N]	Força radial permissível
$J_C$	[Kgm <sup>2</sup> ]	Momento de inércia de massa a ser movida	$S$	–	Fator de segurança
$J_M$	[Kgm <sup>2</sup> ]	Momento de inércia de massa do motor	$t_a$	[°C]	Temperatura ambiente
$J_R$	[Kgm <sup>2</sup> ]	Momento de inércia de massa do redutor	$t_f$	[min]	Tempo de trabalho sob carga constante
$K$	–	Fator de aceleração da massa	$t_r$	[min]	Tempo de descanso
$K_r$	–	Fator do elemento de transmissão	$\eta_d$	–	Eficiência dinâmica
$T_{1,2}$ $M_{1,2}$	[lb·in] [Nm]	Torque	$\eta_s$	–	Eficiência estática
$T_{C 1,2}$ $M_{C 1,2}$	[lb·in] [Nm]	Torque calculado	$\varphi$	[°]	Folga angular do eixo de saída (com eixo de entrada travado)
$T_{n 1,2}$ $M_{n 1,2}$	[lb·in] [Nm]	Torque nominal			<sup>1</sup> valor aplicável ao eixo de entrada
$T_{r 1,2}$ $M_{r 1,2}$	[lb·in] [Nm]	Demanda de torque			<sup>2</sup> valor aplicável ao eixo de saída



O símbolo mostra a página a partir da qual as informações podem ser classificadas.



Este símbolo refere-se ao ângulo que a força radial é aplicado (visto da ponta do eixo da unidade).



**IMPORTANTE**  
Este símbolo indica informações técnicas importantes.



Este símbolo refere-se ao peso dos motorreductores e reductores.

Dados de motorreductores incorporam o peso do motor de 4 polos e os dados de unidades com lubrificação permanente, quando aplicáveis, incorporam o peso do óleo.

Series C	Series A	Series F	Serie S	
				Motorreductor com motor compacto.
				Motorreductor com motor IEC.
				Redutor com interface de motor IEC.
				Redutor com interface de motor NEMA
				Redutor com adaptador de entrada de servomotor.
				Redutor de velocidade com eixo de entrada sólido.



## 2 TORQUE

### 2.1 Torque nominal $M_{n2}$ [Nm]

O torque que pode ser transmitido continuamente através do eixo de saída, com o redutor operado sob um fator de serviço  $f_s = 1$ .

A classificação é sensível à velocidade.

### 2.2 Torque exigido $M_{r2}$ [Nm]

A demanda de torque baseia-se na exigência da aplicação.

Deve ser sempre igual ou menor que o torque  $M_{n2}$  em que o redutor em estudo esteja classificado.

### 2.3 Torque calculado $M_{c2}$ [Nm]

Valor do torque computacional a ser usado ao escolher o redutor. Ele é calculado considerando o torque exigido  $M_{r2}$  e o fator de serviço  $f_s$ , de acordo com a equação abaixo:

$$M_{c2} = M_{r2} \cdot f_s < M_{n2} \quad (1)$$

## 3 POTÊNCIA

### 3.1 Potência nominal $P_{n1}$ [kW]

Nas tabelas de seleção de redutor, esta é a potência aplicável ao eixo de entrada, com base na velocidade de entrada  $n_1$  e correspondente ao fator de serviço  $f_s = 1$ .

## 4 CAPACIDADE TÉRMICA $P_t$ [kW]


$P_t$  é a potência que pode ser transmitida pelo redutor, sob um ciclo contínuo e uma temperatura ambiente de 20 °C, sem resultar em danos das partes internas ou degradação das propriedades lubrificantes. Consulte a tabela (A1) para classificações de kW específicas.


No caso de ciclo intermitente, ou temperatura ambiente operacional diferente da nominal de 20°C, o valor  $P_t$  deve ser ajustado pelo fator  $f_t$ , obtido na tabela (A2), de acordo com a seguinte equação:  $P_t' = P_t \times f_t$





Redutores com mais de 2 reduções e/ou relação de transmissão maior que  $i = 45$  geralmente não necessitam a verificação do limite térmico já que nesses casos a classificação térmica geralmente excede a classificação mecânica.

(A 1)

	$P_t$ [kW] 20 °C	
	$n_1 = 1200$ rpm	$n_1 = 1800$ rpm
<b>C 05 2</b>	—	—
<b>C 12 2</b>	—	—
<b>C 22 2</b>	—	—
<b>C 32 2</b>	—	5.1
<b>C 36 2</b>	6.5	6.0
<b>C 41 2</b>	8.0	7.4
<b>C 51 2</b>	11.0	10.1
<b>C 61 2</b>	14.0	12.9
<b>C 70 2</b>	21	19.4
<b>C 80 2</b>	32	30
<b>C 90 2</b>	43	40
<b>C 100 2</b>	59	54

	$P_t$ [kW] 20 °C	
	$n_1 = 1200$ rpm	$n_1 = 1800$ rpm
<b>A 05 2</b>	2.0	1.9
<b>A 10 2</b>	2.1	1.9
<b>A 20 2</b>	6.0	5.8
<b>A 30 2</b>	8.0	7.6
<b>A 35 2</b>	9.5	9.1
<b>A 41 2</b>	11.5	11.0
<b>A 50 2</b>	20	19.4
<b>A 55 2</b>	21	20
<b>A 60 2</b>	27	26
<b>A 70 3</b>	31	29
<b>A 80 3</b>	44	41
<b>A 90 3</b>	64	60

	$P_t$ [kW] 20 °C	
	$n_1 = 1200$ rpm	$n_1 = 1800$ rpm
<b>F 10 2</b>	3.8	3.5
<b>F 20 2</b>	9.1	8.4
<b>F 25 2</b>	10.2	9.4
<b>F 31 2</b>	11.7	10.8
<b>F 41 2</b>	14.3	13.2
<b>F 51 2</b>	21.6	19.4
<b>F 60 3</b>	26.1	24
<b>F 70 3</b>	36.5	34
<b>F 80 3</b>	52	48
<b>F 90 3</b>	75	69

	$P_t$ [kW] 20 °C	
	$n_1 = 1200$ rpm	$n_1 = 1800$ rpm
<b>S 10 1</b>	5.5	5.3
<b>S 20 1</b>	7.8	7.6
<b>S 30 1</b>	10.0	9.7
<b>S 40 1</b>	15.6	15.2
<b>S 50 1</b>	21.0	20.4



(A 2)

		$f_t$			
$t_a$ °C	Ciclo contínuo	Ciclo intermitente			
		Grau de intermitência [ I ]			
		80%	60%	40%	20%
40	0.80	1.1	1.3	1.5	1.6
30	0.85	1.3	1.5	1.6	1.8
20	1.0	1.5	1.6	1.8	2.0
10	1.15	1.6	1.8	2.0	2.3

Onde o fator de duração cíclica (I)% é a relação entre o tempo de operação sob carga  $t_f$  e o tempo total ( $t_f + t_r$ ) expresso como porcentagem.

$$I = \frac{t_f}{t_f + t_r} \cdot 100 \quad (2)$$

A condição a ser verificada é:

$$P_{r1} \leq P_t \times f_t \quad (3)$$





## 5 EFICIÊNCIA





### 5.1 Eficiência dinâmica $\eta_d$





Obtida da relação entre a potência gerada  $P_2$  e a potência de entrada  $P_1$ , de acordo com a seguinte equação:



$$\eta_d = \frac{P_2}{P_1} \cdot 100 \quad [\%] \quad (4)$$

(A 3)

	2 x 	3 x 	4 x 
$\eta_d$	95%	93%	90%

	2 x 	3 x 	4 x 
$\eta_d$	94%	91%	89%

	2 x 	3 x 	4 x 
$\eta_d$	95%	93%	90%

	1 x 		
$\eta_d$	98%		



## 6 RELAÇÃO DE TRANSMISSÃO $i$

O valor da relação de transmissão é mencionado com a letra  $[i]$  e calculado através da relação entre a velocidade de entrada  $n_1$  e a velocidade de saída  $n_2$ :

$$i = \frac{n_1}{n_2} \quad (5)$$

A relação de transmissão é geralmente um número decimal que neste catálogo é truncado em um dígito após a vírgula (sem decimais para  $i > 1000$ ).

Se houver interesse em saber o valor exato, favor consultar a Assistência Técnica Bonfiglioli.

## 7 VELOCIDADE ANGULAR

### 7.1 Velocidade de entrada $n_1$ [rpm]

A velocidade está associada ao motor primário selecionado. Os valores incluídos no catálogo referem-se à velocidade de motores de velocidade simples ou dupla comuns na indústria.

Se o redutor for movido por uma transmissão externa, recomenda-se operá-lo com uma velocidade de 1400 rpm, ou inferior, a fim de otimizar as condições de operação e a vida útil.

Velocidades de entrada mais altas são permitidas, mas neste caso deve-se considerar que a classificação de torque  $M_{n_2}$  é prejudicada.

Favor consultar um representante Bonfiglioli.

### 7.2 Velocidade de saída $n_2$ [rpm]

O valor da velocidade de saída  $n_2$  é calculado pela relação entre a velocidade de entrada  $n_1$  e a relação de transmissão  $i$ , de acordo com a equação abaixo:

$$n_2 = \frac{n_1}{i} \quad (6)$$

## 8 MOMENTO DE INÉRCIA $J_r$ [Kgm<sup>2</sup>]

Momentos de inércia especificados no catálogo referem-se ao eixo de entrada do redutor.

Portanto, referem-se à velocidade do motor, no caso de montagem direta no motor.



## 9 FATOR DE SERVIÇO $f_s$

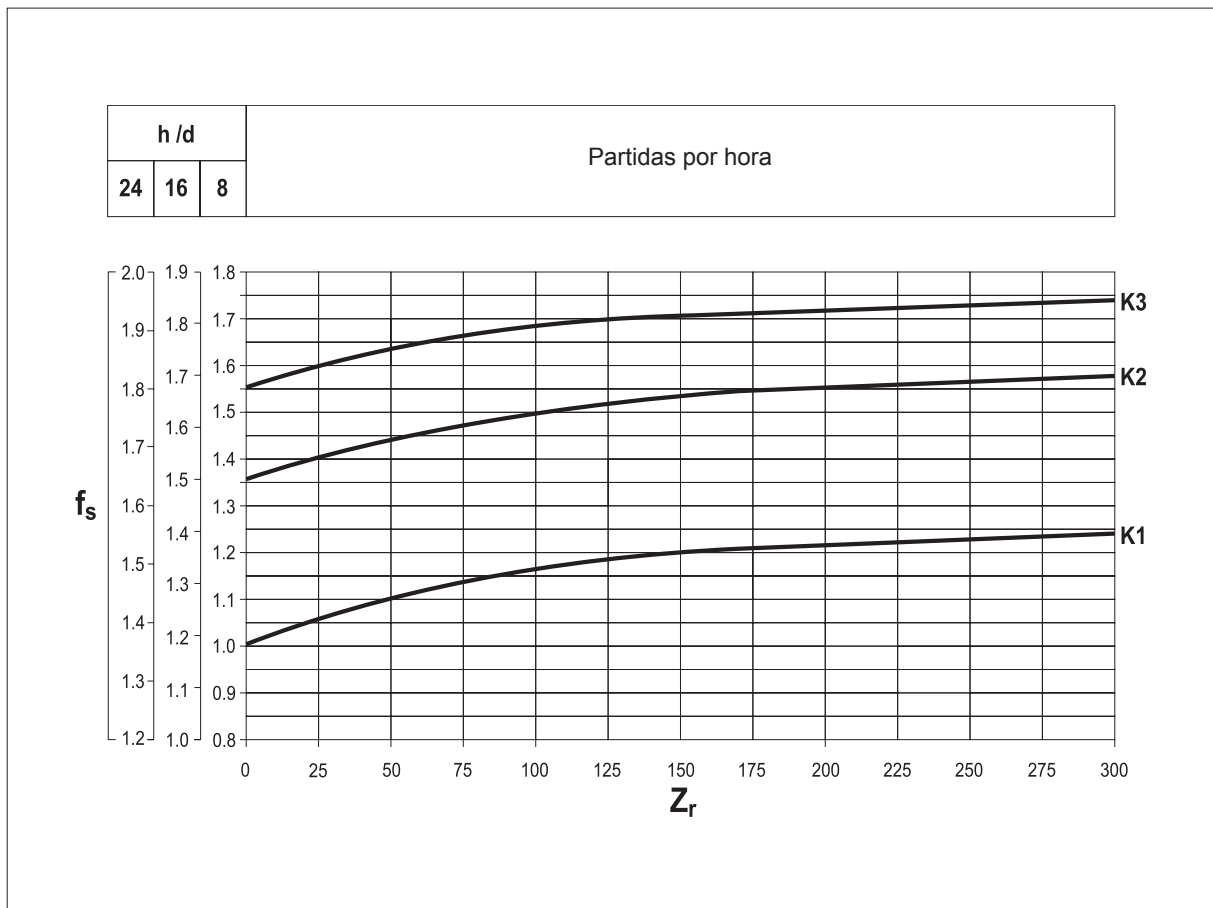
Este fator é o valor numérico que descreve o ciclo de serviço de redução. Ele leva em consideração, com aproximação inevitável, as condições de operação diária, variações de carga e sobrecargas relacionadas à aplicação do redutor.

Na tabela (A4) abaixo, após selecionar a coluna “horas de operação diária” correta, o fator de serviço é obtido pela interseção do número de partidas por hora e uma das curvas K1, K2 ou K3.

Curvas K\_ estão associadas à natureza do serviço (aproximadamente: uniforme, média e pesada) através do fator de aceleração de massas K, associado à relação entre os valores de massas movidas e de inércia do motor.

Independentemente do valor obtido para o fator de serviço, gostaríamos de lembrar que em algumas aplicações que, por exemplo, envolvem o içamento de peças, uma falha do redutor poderá expor os operadores ao risco de acidentes. Em caso de dúvidas, favor entrar em contato com o nosso Departamento de Assistência Técnica.

(A 4)







Os fatores de serviço listados a seguir são valores empíricos baseados especificações das normas ISO e AGMA e em nossa experiência como fabricantes em longos anos de atividade na indústria. Eles são aplicáveis a máquinas projetadas e fabricadas de acordo com a última tecnologia e operando em condições normais de funcionamento.

Aplicação	≤ 10 horário/dia	> 10 horário/dia
<b>AGITADORES, MISTURADORES</b>		
Líquidos de densidade constante	1.25	1.50
Líquidos com sólidos em suspensão	1.25	1.50
Líquidos com densidade variável	1.50	1.75
<b>SOPRADORES</b>		
Centrífugos	1.00	1.25
De lóbulo	1.25	1.50
De paleta	1.25	1.50
<b>PURIFICADORES</b>	1.00	1.25
<b>MÁQUINAS PARA TRABALHAR COM ARGILA</b>		
Prensas para tijolos	1.75	2.00
Prensas para modelar ladrilhos	1.75	2.00
Preparadores	1.25	1.50
<b>COMPACTADORES</b>	2.00	2.00
<b>COMPRESSORES</b>		
Centrífugos	1.25	1.50
De lóbulo	1.25	1.50
Alternativos, multicilíndricos	1.50	1.75
Alternativos, monocilíndricos	1.75	2.00
<b>TRANSPORTADORES - USO GERAL</b>		
Carga distribuída uniformemente - Serviço pesado	1.15	1.25
Carga distribuída de maneira não uniforme - Alternativos ou por agitação	1.25	1.50
	1.75	2.00
<b>GRUAS (*)</b>		
<b>Doca seca</b>		
Guindaste principal	2.50	2.50
Guindaste auxiliar	2.50	3.00
Guindaste com braço	2.50	3.00
Acionamento de rotação	2.50	3.00
Acionamento de translação	3.00	3.00

Aplicação	≤ 10 horário/dia	> 10 horário/dia
<b>Carro-ponte</b>		
Translação de pórtico	3.00	3.00
Acionamento de translação	2.00	2.00
<b>Uso industrial</b>		
Guindaste principal	2.50	3.00
Guindaste auxiliar	2.50	3.00
Ponte e translação do carro	3.00	3.00
<b>TRITURADORES</b>		
Pedras ou minerais	2.00	2.00
<b>DRAGAS</b>		
Transportadores	1.25	1.50
Acionamento das cabeças de corte	2.00	2.00
Peneiras	1.75	2.00
Empilhadeiras	1.25	1.50
Guindastes	1.25	1.50
<b>ELEVADORES</b>		
De caçamba	1.25	1.50
Descarga centrífuga	1.15	1.25
Escadas móveis	1.15	1.25
Carga	1.25	1.50
Descarga por gravidade	1.15	1.25
<b>EXTRUSORAS</b>		
Em geral	1.50	1.50
<b>Plásticos</b>		
Operação com velocidade variável	1.50	1.50
Operação com velocidade fixa	1.75	1.75
<b>Borracha</b>		
Operação de rosca contínua	1.75	1.75
Operação de rosca intermitente	1.75	1.75
<b>VENTILADORES</b>		
Centrífugos	1.00	1.25
Torres de refrigeração	2.00	2.00

(\*) - A indicação do fator de serviço em função da classificação FEM está disponível a pedido. Consultar a Assistência Técnica da Bonfiglioli.

- Guincho para elevação de pessoas: os valores na tabela não são aplicáveis. Consultar a Assistência Técnica da Bonfiglioli.



Aplicação	≤ 10 horário/dia	> 10 horário/dia
Ventilação forçada	1.25	1.25
Ventilação induzida	1.50	1.50
Industriais e de uso em mineração	1.50	1.50
<b>ALIMENTADORES</b>		
Esteiras	1.25	1.50
Correia	1.15	1.50
Disco	1.00	1.25
Alternativos	1.75	2.00
Rosca	1.25	1.50
<b>INDÚSTRIA ALIMENTÍCIA</b>		
Misturadores	1.25	1.50
Moedores de carne	1.25	1.50
Máquinas de fatiar	1.25	1.50
<b>GERADORES DE CORRENTE ELÉTRICA</b>	1.00	1.25
<b>MOINHOS DE MARTELO</b>	1.75	2.00
<b>GUINCHOS (*)</b>		
Serviço pesado	1.75	2.00
Serviço médio	1.25	1.50
Guincho de caçamba	1.25	1.50
<b>INDÚSTRIA MADEIREIRA</b>		
Máquinas descascadoras – avanço do mandril	1.25	1.50
Acionamento principal	1.75	1.75
<b>Transportadores – queimadores</b>	1.25	1.50
Serviço principal ou pesado	1.50	1.50
Tronco principal	1.75	2.00
Serra circular	1.25	1.50
<b>Transportadores</b>		
Chapa	1.75	2.00
Transferência	1.25	1.50
<b>Correntes</b>		
Piso	1.50	1.50
Movimento contínuo	1.50	1.75
<b>Serras manuais</b>		
Corrente	1.50	1.75
Tração	1.50	1.75
Cilindros de descascamento	1.75	2.00
<b>Alimentação</b>		
Cortadora longitudinal	1.25	1.50
Lâminas múltiplas	1.75	1.75
Cortadora	1.25	1.50
Empilhadeira de troncos	1.75	1.75

Aplicação	≤ 10 horário/dia	> 10 horário/dia
Transportadores de troncos – inclinados – sobre rodas	1.75	1.75
Dispositivos de virar troncos	1.75	1.75
Alimentação da plaina	1.25	1.50
Elevadores para virar troncos	1.50	1.50
De rolos	1.75	1.75
Mesa de seleção	1.25	1.50
Elevador com piso basculante	1.25	1.50
<b>Transbordadores</b>		
Corrente	1.50	1.75
Pistas	1.50	1.75
Acionamento de bandejas	1.25	1.50
Acionamento de tornos de folheados	1.25	1.50
<b>METALÚRGICAS</b>		
Empurradores de chapas	1.50	1.50
Tesouras	2.00	2.00
Trefiladoras	1.25	1.50
Bobinadoras	1.50	1.50
<b>MOINHOS ROTATIVOS</b>		
Bola e barra	2.00	2.00
Coroa dentada cilíndrica	2.00	2.00
Coroa dentada helicoidal	1.50	1.50
Conexão direta	2.00	2.00
Fornos de cimento	1.50	1.50
Secadores e refrigeradores	1.50	1.50
<b>MISTURADORES</b>		
Concreto	1.50	1.75
<b>FÁBRICAS DE PAPEL</b>		
Agitadores (misturadores)	1.50	1.50
Agitadores para lixívia pura	1.25	1.25
Cilindros de descascamento	2.00	2.00
Descascadores – mecânicos	2.00	2.00
Purificador	1.50	1.50
Esfarrapadeira	1.25	1.25
Calandra	1.25	1.25
Triturador	2.00	2.00
Alimentador de cavacos	1.50	1.50
Cilindros de revestimento	1.25	1.25
<b>Transportadores</b>		
Cavacos, cascas, substâncias químicas	1.25	1.25
Tronco (mesa incluída)	2.00	2.00

(\*) - A indicação do fator de serviço em função da classificação FEM está disponível a pedido. Consultar a Assistência Técnica da Bonfiglioli.

- Guincho para elevação de pessoas: os valores na tabela não são aplicáveis. Consultar a Assistência Técnica da Bonfiglioli.



Aplicação	≤ 10 horário/dia	> 10 horário/dia
Prensa de sucção	1.25	1.25
Fresa	2.00	2.00
Impressoras cilíndricas	1.25	1.25
<b>Secadoras</b>		
Máquina contínua	1.25	1.25
Tipo transportadora	1.25	1.25
Gofradoras	1.25	1.25
Extrusoras	1.50	1.50
Máquina para refinar a polpa	1.50	1.50
Acionamento de forno	1.50	1.50
Bobinas de papel	1.25	1.25
Prato	1.50	1.50
Prensas – feltro e sucção	1.25	1.25
Desagregadores (Pulpers)	2.00	2.00
Bombas – a vácuo	1.50	1.50
Bobina (tipo superficial)	1.25	1.25
<b>Peneiras</b>		
Cavacos	1.50	1.50
Rotativas	1.50	1.50
Vibradoras	2.00	2.00
Prensa de colagem	1.25	1.25
Supercalandra	1.25	1.25
Adensador (motor de CA)	1.50	1.50
Adensador (motor de CC)	1.25	1.25
Lavadora (motor de CA)	1.50	1.50
Lavadora (motor de CC)	1.25	1.25
Suporte de bobinagem e desbobinagem	1.25	1.50
Bobina (tipo superficial)	1.25	1.25
Secadoras Yankee	1.25	1.25
<b>INDÚSTRIA DE PLÁSTICOS</b>		
Misturadores de lote	1.75	1.75
Misturadores contínuos	1.50	1.50
Equipamento de mistura	1.25	1.25
Calandras	1.50	1.50
<b>Processamento secundário</b>		
Equipamento de moldagem por sopro	1.50	1.50
Revestimento	1.25	1.25
Película	1.25	1.25
Pré-mastigadores	1.50	1.50
Barras	1.25	1.25

Aplicação	≤ 10 horário/dia	> 10 horário/dia
Chapa	1.25	1.25
Tubos	1.25	1.50
<b>BOMBAS</b>		
Centrífugas	1.15	1.25
<b>Alternativas</b>		
De ação simples, três ou mais cilindros	1.25	1.50
De ação dupla, dois ou mais cilindros	1.25	1.50
<b>Rotativas</b>		
Tipo de engrenagem	1.15	1.25
De lóbulos	1.15	1.25
De palheta	1.15	1.25
<b>INDÚSTRIA DA BORRACHA</b>		
<b>Misturadores internos intensivos</b>		
Misturadores de lote	1.75	1.75
Misturadores contínuos	1.50	1.50
Refinador – dois cilindros	1.50	1.50
Calandras	1.50	1.50
<b>MOINHO PARA AREIA</b>	1.25	1.50
<b>DISPOSITIVOS PARA TRATAMENTO DE ESGOTOS</b>		
Aeradores	2.00	2.00
Alimentadores de substâncias químicas	1.25	1.25
Telas de desidratação	1.50	1.50
Escumador	1.50	1.50
Misturador lento ou rápido	1.50	1.50
Coletor de espuma	1.25	1.25
Adensadores	1.50	1.50
Filtros a vácuo	1.50	1.50
<b>PENEIRAS</b>		
Lavagem a ar	1.00	1.25
Rotativas – pedra ou cascalho	1.25	1.50
Entrada de água móvel	1.00	1.25
<b>INDÚSTRIA AÇUCAREIRA</b>		
Cortadores de beterraba	2.00	2.00
Lâminas para cana	1.50	1.50
Esmagadores	1.50	1.50
Moinhos (extremidade de baixa velocidade)	1.75	1.75
<b>MÁQUINAS TÊXTEIS</b>	1.25	1.50



## 9.1 Fator de aceleração de massas K

Este parâmetro serve para selecionar a curva correta para o tipo de carga.  
O valor é obtido pela seguinte relação:

(A 5)

$K = \frac{J_c}{J_m}$	→	$J_c =$ Momento de inércia de massas movidas referidas ao eixo de transmissão do motor	$K \leq 0.25$	→ K1	Carga uniforme
		$J_m =$ Momento de inércia do motor	$0.25 < K \leq 3$	→ K2	Força de impacto moderada
			$3 < K \leq 10$	→ K3	Força de impacto pesada
			$K > 10$	→	Favor consultar o Serviço de Assistência Técnica da Bonfiglioli

## 10 MANUTENÇÃO

Redutores com lubrificação permanente não exigem trocas de óleo periódicas.

Para outros tipos de redutores, a primeira troca de óleo deverá ser feita após aproximadamente 300 horas de operação, limpando cuidadosamente o redutor com detergentes adequados.

Não misture óleos minerais com óleos sintéticos.

Verifique o nível de óleo regularmente e troque o óleo nos intervalos indicados na tabela (A6).

(A 6)

Temperatura do óleo °C	Intervalo de troca de óleo [h]	
	Óleo mineral	Óleo sintético
< 65	8000	25000
65 - 80	4000	15000
80 - 95	2000	12500





## 11 SELEÇÃO

Alguns dados básicos são necessários para auxiliar na seleção correta de um redutor ou motoredutor. A tabela abaixo (A7) apresenta um breve resumo destas informações.

Para simplificar a seleção, preencha a tabela e envie uma cópia para a nossa Assistência Técnica que selecionará o redutor mais adequado à sua aplicação.

(A7)

Tipo de aplicação .....	<b>A<sub>c1</sub></b> Carga axial no eixo de entrada (+/-)(***) .....	N
<b>P<sub>r2</sub></b> Potência de saída a n <sub>2</sub> máx .....kW	<b>J<sub>c</sub></b> Momento de inércia da carga .....	Kgm <sup>2</sup>
<b>P<sub>r2</sub>'</b> Potência de saída a n <sub>2</sub> min .....kW	<b>t<sub>a</sub></b> Temperatura ambiente .....	C°
<b>M<sub>r2</sub></b> Torque de saída a n <sub>2</sub> máx .....	Altitude acima do nível do mar .....	m
<b>n<sub>2</sub></b> Velocidade máxima de saída .....	Tipo de ciclo de acordo com as normas IEC S...../.....%	rpm
<b>n<sub>2</sub>'</b> Velocidade mínima de saída .....	<b>Z</b> Frequência de partidas .....	1/h
<b>n<sub>1</sub></b> Velocidade máxima de entrada .....	Tensão do motor .....	V
<b>n<sub>1</sub>'</b> Velocidade mínima de entrada .....	Tensão do freio .....	V
<b>R<sub>c2</sub></b> Força radial no eixo de saída .....	Frequência .....	Hz
<b>x<sub>2</sub></b> Distância de aplicação da carga (*) .....	<b>M<sub>b</sub></b> Torque de freio .....	Nm
Orientação da carga na saída 	Grau de proteção do motor IP.....	
Sentido de rotação do eixo de saída (CW-CCW) (**)	Classe de isolamento .....	
<b>R<sub>c1</sub></b> Força radial no eixo de entrada .....		
<b>x<sub>1</sub></b> Distância de aplicação da carga (*) .....		
Orientação da carga na entrada 		
Sentido de rotação do eixo de entrada (CW-CCW) (**)		
<b>A<sub>c2</sub></b> Carga axial no eixo de saída (+/-)(***) .....		N

(\*) A distância x1-2 é entre o ponto de aplicação de força e batente mecânico do eixo (caso não seja indicada, a força atuante no ponto médio da extensão do eixo será considerada).

(\*\*) CW = sentido horário;  
CCW = sentido anti-horário

(\*\*\*) + = compressão  
- = tração



## 11.1 Seleção de redutor

a) Determine o fator de serviço  $f_s$  de acordo com o tipo de ciclo (fator K), número de partidas por hora  $Z_r$  e horas de operação.

b) Com os valores de torque  $M_{r2}$ , velocidade  $n_2$  e eficiência  $\eta_d$ , a potência de entrada necessária pode ser calculada através da equação:

$$P_{r1} = \frac{M_{r2} \cdot n_2}{9550 \cdot \eta_d} \text{ [kW]} \quad (7)$$

O valor de  $\eta_d$  para o redutor em epígrafe pode ser classificado a partir do parágrafo 5.

c) Consulte as tabelas de seleção de redutor e localize a tabela correspondente à potência normalizada  $P_n$ :

$$P_n \geq P_{r1} \quad (8)$$

Salvo especificado de outro modo, a potência  $P_n$  dos motores indicados no catálogo refere-se ao ciclo contínuo S1. Para motores usados em condições diferentes de S1, o tipo de ciclo exigido por referência às Normas CEI 2-3/IEC 34-1 deve ser mencionado.

Para ciclo de S2 até S8 especificamente e para quadros de motor 132 ou menores, potência extra pode ser obtida em relação ao ciclo contínuo.

Por conseguinte, a seguinte condição deve ser satisfeita:

$$P_n \geq \frac{P_{r1}}{f_m} \quad (9)$$

O fator de ajuste  $f_m$  pode ser obtido na tabela (A8).

## 11.2 Relação de intermitência

$$I = \frac{t_f}{t_f + t_r} \cdot 100 \quad (10)$$

$t_f$  = tempo de operação a carga constante

$t_r$  = tempo de descanso



(A 8)

	CICLO						Favor entrar em contato conosco
	S2			S3*			
	Duração do ciclo [min]			Fator de duração de ciclo (l)			
	10	30	60	25%	40%	60%	
$f_m$	1.35	1.15	1.05	1.25	1.15	1.1	

\* A duração do ciclo, em qualquer caso, deve ser de 10 minutos ou menos. Se for maior, favor entrar em contato com a nossa Assistência Técnica.

A seguir, consulte a seção  $P_n$  adequada dentro das tabelas de seleção de redutor e localize a unidade com a velocidade de saída desejada  $n_2$ , ou o mais perto disso, juntamente com um fator de segurança  $S$  que atenda ou exceda o fator de serviço aplicável  $f_s$ .

O fator de segurança é assim definido:

$$S = \frac{M_{n2}}{M_2} = \frac{P_{n1}}{P_1} \quad (11)$$

Por padrão, as combinações de redutor e motor são implantadas com motores de 2, 4 e 6 polos, fornecidos com 60 Hz.

Caso a velocidade de transmissão seja diferente de 3600, 1800 ou 1200 rpm-1, baseie a seleção na classificação nominal do redutor.

### 11.3 Seleção de redutor de velocidade e redutor com adaptador para motor

a) Determine o fator de serviço  $f_s$ .

b) Supondo que o torque de saída exigido para a aplicação  $M_{r2}$  é conhecido, o cálculo do torque pode ser então definido como:

$$M_{c2} = M_{r2} \cdot f_s \quad (12)$$

c) A relação de transmissão é calculada de acordo com a velocidade de saída solicitada  $n_2$  e a velocidade de transmissão  $n_1$ :

$$i = \frac{n_1}{n_2} \quad (13)$$



Quando os valores  $M_{c2}$  e  $[i]$  forem conhecidos, consulte as tabelas de classificação para a velocidade de entrada  $n_1$  adequada e localize o redutor com a relação de transmissão mais próxima de  $[i]$  e que também ofereça um valor de torque nominal  $M_{n2}$  de modo que:

$$M_{n2} \geq M_{c2} \quad (14)$$

Se um motor IEC normalizado tiver de ser equipado, a compatibilidade geométrica com o redutor referida no parágrafo “DISPONIBILIDADE DO MOTOR” seja verificada.

## 12 VERIFICAÇÃO

Depois de selecionar o redutor de velocidade, ou redutor, recomenda-se fazer as seguintes verificações:

### a) Capacidade térmica

Verifique se a capacidade térmica do redutor é igual ou maior que a potência exigida pela aplicação de acordo com a equação (3) contida na página 6.

Se esta condição não for verificada, selecione um redutor maior ou aplique um sistema de refrigeração forçada.

### b) Torque máximo

O torque máximo (previsto como carga de pico instantâneo) aplicável ao redutor não deve, de modo geral, exceder 200% do torque nominal  $M_{n2}$ . Portanto, verifique se este limite não foi excedido, usando dispositivos adequados de limitação de toque, se necessário.

Para motores trifásicos com velocidade dupla, é importante prestar atenção ao torque de comutação gerado ao comutar a velocidade de alta para baixa, porque poderia ser significativamente maior do que o torque máximo.

Uma forma simples e econômica de minimizar a sobrecarga é alimentar somente duas fases do motor durante a comutação (o tempo de partida em duas fases pode ser controlado com um relé de tempo):

$$M_{g2} = 0,5 \cdot M_{g3}$$

$M_{g2}$  = Torque de comutação com partida em duas fases

$M_{g3}$  = Torque de comutação com partida em três fases

Em qualquer caso, recomendamos contatar nossa Assistência Técnica.

### c) Cargas radiais

Verifique se as cargas radiais aplicadas sobre o eixo de entrada e/ou saída estão dentro dos valores permitidos no catálogo.

Se forem maiores, considere projetar um arranjo de rolamentos diferente antes de mudar para um redutor maior.

Os valores do catálogo para cargas radiais nominais referem-se ao ponto médio do eixo em estudo.

Se o ponto de aplicação da carga radial estiver localizado além disso, a capacidade de carga revisada deve ser ajustada conforme as instruções fornecidas neste manual.

Consulte os parágrafos relativos a cargas radiais.





d) Cargas axiais

A carga axial real deve ficar dentro de 20% da respectiva capacidade de carga radial. Se uma carga axial extremamente alta, ou uma combinação de carga radial e carga axial for aplicável, consulte a Assistência Técnica Bonfiglioli.

e) Partidas por hora

Para ciclos com alto número de comutações, a capacidade real de partidas na condição carregado [Z] deve ser calculada.

O número real de partidas por hora deve ser menor que o valor desse modo calculado.

## 13 INSTALAÇÃO

As instruções de instalação abaixo devem ser observadas:

a) Verifique se o redutor foi corretamente fixado para evitar vibrações.

Caso possa haver choques ou sobrecargas, instale acoplamentos hidráulicos, embreagens, limitadores de torque, etc.

b) Antes do revestimento com tinta, as superfícies usinadas e a face exterior dos retentores de óleo deverão ser protegidas a fim de evitar a secagem da tinta fora da borracha e o comprometimento da função de retenção.

c) Peças instaladas no eixo de saída do redutor devem ser usinadas com a tolerância ISO H7 para evitar ajustes forçados que poderiam danificar o próprio redutor.

Além disso, para montar ou remover essas peças, use puxadores ou extratores adequados usando o furo roscado localizado na parte superior da extensão do eixo.

d) As superfícies de contato devem ser limpas e tratadas com produtos de proteção adequados antes da montagem para evitar a oxidação e, conseqüentemente, a gripagem das peças.

e) Antes de colocar o redutor em operação, verifique se o equipamento que incorpora o redutor está em conformidade com a atual revisão da Diretiva de Máquinas 2006/42/EC.

f) Antes de iniciar a máquina, verifique se o nível de óleo está em conformidade com a posição de montagem especificada para o redutor e se a viscosidade é adequada (consulte o Manual do Usuário disponível no site: [www.bonfiglioli.com](http://www.bonfiglioli.com)).

g) Para instalação ao ar livre, forneça proteções adequadas para proteger a unidade de chuvas e da radiação solar direta.



### 13.1 Instalação de servomotores em redutores com um dispositivo de fixação (adaptador tipo SC)

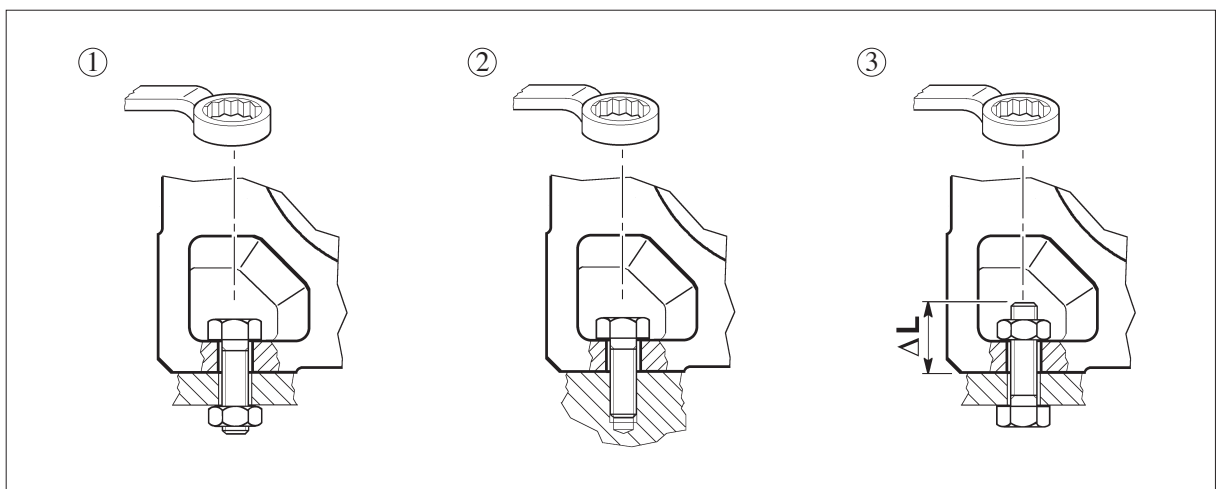
Gire o dispositivo de fixação até que seu encaixe fique alinhado a aqueles frisados no eixo de entrada do redutor. Se o eixo do motor tiver uma chave, ela deverá ser removida e a chaveta pertinente também deverá ser alinhada aos encaixes do dispositivo de fixação e ao eixo de entrada do redutor antes da colocação do servomotor no lugar. A chaveta deverá ficar do mesmo lado do parafuso de travamento. Aperte os parafusos que fixam o servomotor no redutor, insira um torquímetro no furo na lateral do flange e aperte o parafuso de travamento do dispositivo de fixação de acordo com o torque especificado na seção de desenho do referido adaptador.

## 14 INSTRUÇÕES DE INSTALAÇÃO

Os esquemas contidos na tabela (A9) mostram os 3 padrões de instalação possíveis para redutores A no quadro da máquina.

Para cada uma destas circunstâncias, a tabela (A10) indica os tamanhos de parafusos de cabeça hexagonal que devem ser utilizados. Além disso, para facilitar a instalação, sugerimos o uso de uma chave do tipo mostrado na tabela (A9).

(A 9)



(A 10)

	Tipo de parafuso			
	①	②	③	$\Delta L$ [mm / in]
<b>A 05</b>	M8x22	M8x20	M8x ...	22 / 0.866
<b>A 10</b>	M8x25	M8x20	M8x ...	20 / 0.787
<b>A 20</b>	M8x25	M8x20	M8x ...	20 / 0.787
<b>A 30</b>	M10x30	M10x25	M10x ...	25 / 0.984
<b>A 35</b>	M10x30	M10x25	M10x ...	25 / 0.984
<b>A 41</b>	M12x35	M12x30	M12x ...	30 / 1.181

	Tipo de parafuso			
	①	②	③	$\Delta L$ [mm / in]
<b>A 50</b>	M14x45	M14x40	M14x ...	35 / 1.378
<b>A 55</b>	M14x40	M14x40	M14x ...	35 / 1.378
<b>A 60</b>	M16x50	M16x45	M16x ...	40 / 1.575
<b>A 70</b>	M20x60	M20x55	M20x ...	45 / 1.772
<b>A 80</b>	M24x70	M24x65	M24x ...	55 / 2.165
<b>A 90</b>	M24x90	M24x80	M24x ...	65 / 2.559



## 15 ARMAZENAMENTO

Observe as instruções abaixo para garantir o armazenamento correto dos produtos:

- a) Não armazene ao ar livre, em áreas expostas ao tempo ou com umidade excessiva.
- b) Sempre coloque placas, madeira ou outro material entre os produtos e o chão. Os redutores não devem ter contato direto com o chão.
- c) No caso de armazenamento a longo prazo, todas as superfícies usinadas, tais como flanges, eixos e acoplamentos devem ser revestidos com um produto antiferrugem adequado (Mobilarma 248 ou equivalente).

Além disso, os redutores devem ser colocados com o bujão de abastecimento na posição mais alta e enchidos de óleo. Antes de colocar as unidades em operação, a quantidade e o tipo adequados de óleo deverão ser restaurados.

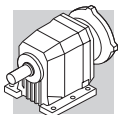
## 16 CONDIÇÕES DE FORNECIMENTO

Os redutores são fornecidos da seguinte forma:

- a) configurados para instalação na posição de montagem especificada no pedido;
- b) testados de acordo com as especificações do fabricante;
- c) combinando com as superfícies usinadas - sem pintura;
- d) porcas e parafusos são fornecidos para montagem dos motores;
- e) os eixos são protegidos durante o transporte por tampas de plástico;
- f) fornecidos com alça de suspensão (quando aplicável).

## 17 ESPECIFICAÇÕES DE PINTURA

Especificações de pintura aplicadas aos redutores (quando aplicável) poderão ser obtidas junto às filiais ou revendedores que forneceram as unidades.



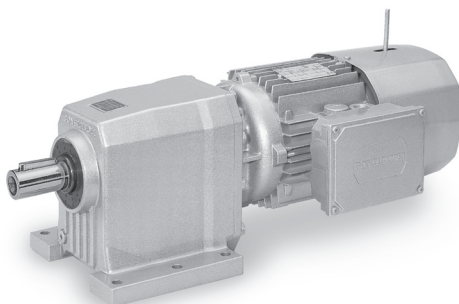
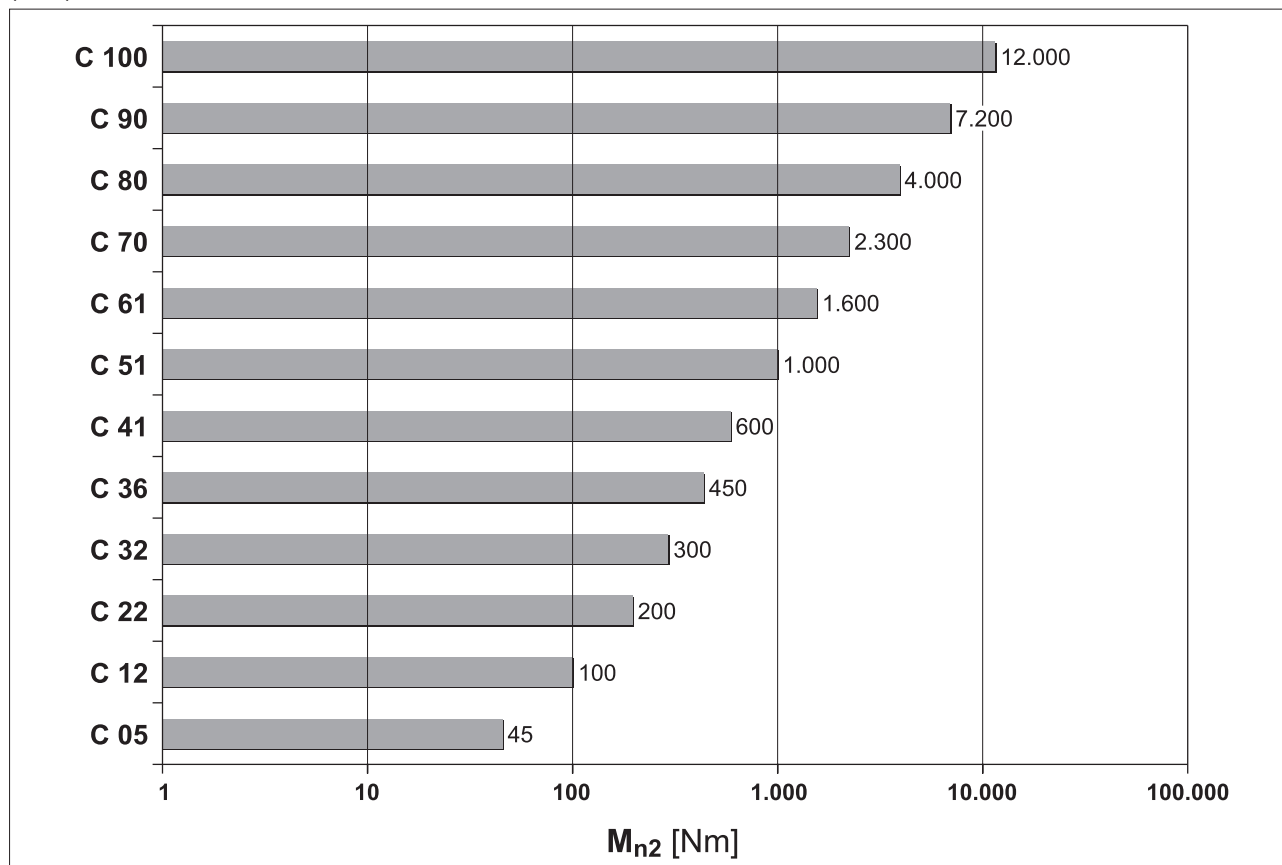
## REDUTORES HELICOIDAIS SÉRIE C

### 18 CARACTERÍSTICAS DE PROJETO

As principais características de projeto são:

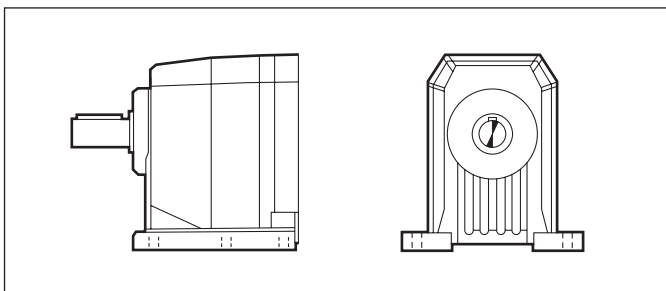
- modularidade
- eficiência de espaço
- montagem universal
- alta eficiência
- operação silenciosa
- engrenagens em aço temperado e aço cementado
- caixa de alumínio bruto para os tamanhos 05, 12, 22 e 32.
- Tamanhos de quadro maiores vêm em caixas de ferro fundido de alta resistência
- eixos de entrada e saída feitos com aço de alta qualidade.

(B 11)





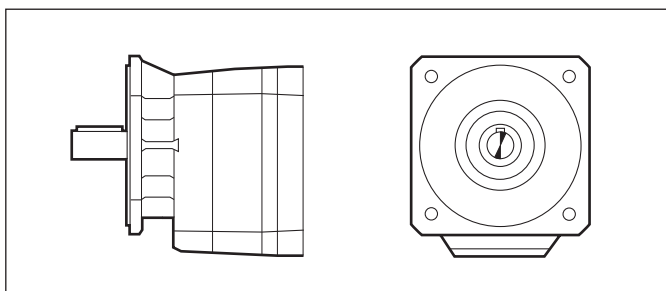
## 19 VERSÕES



### **P - NP**

Montagem com pés

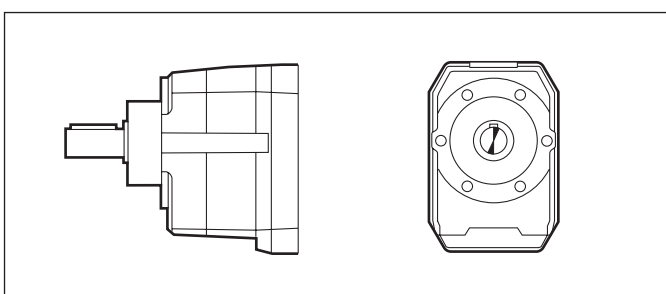
C 05 ... C 100



### **F - NF**

Montagem com flange

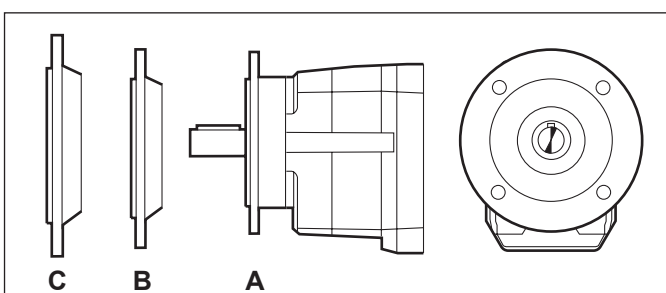
C 05 ... C 32  
C 70 ... C 100



### **U - NU**

UNIBOX- caixa universal

C 12 ... C 61



### **UF - NUF**

UNIBOX flange parafusado

C 12 ... C 61



**20 DESIGNAÇÃO**

REDUTORES

**C 32 2 F 52.4 S1 B5 .....**

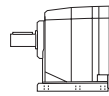
OPÇÕES

POSIÇÃO DE MONTAGEM

C...P: **B3** (Padrão), B6, B7, B8, V5, V6

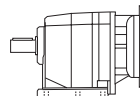
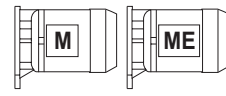
C...F/U/UF: **B5** (Padrão), B51, B53, B52, V1, V3

CONFIGURAÇÃO DE ENTRADA



(C05...C100)

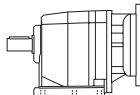
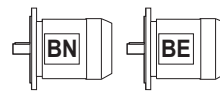
**S05 ... S5**



(C12...C100)

**IEC\_**

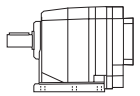
**P63 ... P180**



(C12...C100)

**NEMA\_**

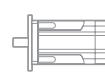
**N56C ... N320TC**



(C12...C61)

**SK\_**

**SC\_**

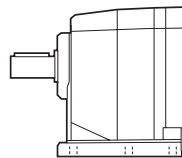


**HS**

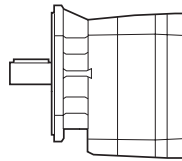
**NHS**

RELAÇÃO DE TRANSMISSÃO

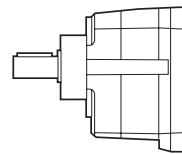
VERSÃO



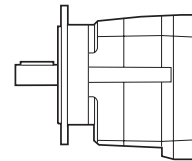
**P - NP**  
(C05...C100)



**F - NF**  
(C05...C32)  
(C70...C100)



**U - NU**  
(C12...C61)

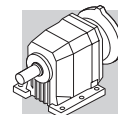


**UFA - NUFA**  
**UFB - NUFB**  
**UFC - NUFC**  
(C12...C61)

REDUÇÕES  
**2, 3, 4**

TAMANHO DO QUADRO DE ENGRENAGEM  
**05, 12, 22, 32, 36, 41, 51, 61, 70, 80, 90, 100**

TIPO: **C** = helicoidal coaxial



MOTOR

FREIO

**M 1LA 4 230/400-60 IP54 CLF ..... W FD 7.5 R SB 220 SA .....**

OPÇÕES

ALIMENTAÇÃO DO FREIO

TIPO DE RETIFICADOR AC/DC  
**NB, SB, NBR, SBR**

LIBERAÇÃO MANUAL DO FREIO  
**R, RM**

TORQUE DE FRENAGEM

TIPO DE FREIO  
**FD** (freio d.c.)  
**FA** (freio a.c.)

POSIÇÃO DA CAIXA DE TERMINAIS  
**W** (padrão), **N, E, S**

MONTAGEM DO MOTOR  
— (motor compacto)  
**B5** (motor - IEC)

CLASSE DE ISOLAMENTO  
**CL F** padrão  
**CL H** opção

GRAU DE PROTEÇÃO  
**IP55** padrão (**IP56** opção)  
**IP54, IP55** freio motor

TENSÃO - FREQUÊNCIA

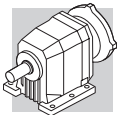
NÚMERO DE POLOS  
**2, 4, 6**

TAMANHO DO MOTOR  
**0B ... 5LA** (motor compacto)  
**63A ... 280M** (motor IEC)

TIPO DE MOTOR

**ME** = trifásico compacto, classe IE2    **M** = trifásico compacto  
**BE** = IEC trifásico, classe IE2        **BN** = trifásico IEC

**NEMA** = Trifásico a ser especificado conforme ordem



## 20.1 Opções de redutor

### SO

Os redutores C05, C12, C22, C32, C36, C41, geralmente preenchidos com óleo pela fábrica, são fornecidos sem lubrificação.

### LO

Os redutores C51, C61, C70, C80, C90, C100, geralmente fornecidos sem óleo, devem ser preenchidos com o óleo sintético atualmente usado pela BONFIGLIOLI REDUTORES de acordo com a posição de montagem especificada.

### DL

O eixo de saída possui um retentor de óleo duplo.

### DV

Retentores de óleo duplos no eixo de entrada. (Disponível apenas para motorredutores integrais).

### VV

Retentor de óleo em fluorelastômero no eixo de entrada.

### PV

Os eixos de entrada e saída possuem retentores de óleo em Fluoroelastômero.

### RB

Os redutores C12, C22, C32, C36, C41, C51 e C61, geralmente fornecidos com valores padrão de folga angular, são, neste caso, fornecidos com valores reduzidos de folga angular.

A tabela a abaixo especifica os respectivos valores de folga angular.

(B 12)

		standard		RB	
C 05	i =	5.5 ; 9.3 ; 15.6 ; 27.1	6.7 ; 7.4 ; 11.2 ; 12.5 ; 18.9 ; 21.0 ; 32.8 44.7	—	
	φ [°]	34	29	—	
C 12	i =	2.8 6.2	7.6 66.2	2.8 6.2	7.6 66.2
	φ [°]	55	29	—	13
C 22	i =	2.7 6.1	7.1 261.0	2.7 6.1	7.1 261.0
	φ [°]	47	25	—	12
C 32	i =	2.9 6.3	7.2 274.7	2.9 6.3	7.2 274.7
	φ [°]	39	21	—	11
C 36	i =	2.7 5.8	6.8 19.0 22.1 848.5	2.7 5.8	6.8 848.5
	φ [°]	37	20 17	—	10
C 41 2	i =	2.7 6.0	6.4 44.8	2.7 6.0	6.4 44.8
	φ [°]	34	17	—	9
C 41 3/4	i =	—	28.5 855.5	—	28.5 855.5
	φ [°]	—	15	—	9
C 51 2	i =	2.6 5.6	7.0 57.0	2.6 5.6	7.0 57.0
	φ [°]	32	15	—	8
C 51 3/4	i =	—	21.8 884.9	—	21.8 884.9
	φ [°]	—	13	—	8
C 61 2	i =	2.8 6.0	6.7 38.0	2.8 6.0	6.7 38.0
	φ [°]	27	13	—	7
C 61 3/4	i =	—	26.8 796.1	—	26.8 796.1
	φ [°]	—	11	—	7
C 70	i =	4.6 34.7	41.3 1476	—	
	φ [°]	18	20	—	
C 80	i =	5.6 39.1	43.5 1481	—	
	φ [°]	16	18	—	
C 90	i =	5.2 35.1	39.4 1240	—	
	φ [°]	16	18	—	
C 100	i =	4.9 29.6	34.3 1081	—	
	φ [°]	14	16	—	

Para informações sobre o prazo de entrega, entre em contato com a rede de vendas Bonfiglioli.





## PROTEÇÃO DE SUPERFÍCIE

Quando nenhuma classe de proteção específica for exigida, as superfícies (ferrosas) pintadas dos redutores serão protegidas de acordo com a classe de corrosividade C2 (UNI EN ISO 12944-2). Para aumentar a resistência contra corrosão atmosférica, os redutores podem ser fornecidos com proteções superficiais **C3** e **C4** obtidas pintando-se o redutor inteiro.

(B 13)

PROTEÇÃO DE SUPERFÍCIE	Ambientes típicos	Temperatura máxima de superfície	Classe corrosividade conforme com UNI EN ISO 12944-2
<b>C3</b>	Ambientes urbanos e industriais com até 100% de umidade relativa (poluição do ar média)	120°C	C3
<b>C4</b>	Áreas industriais, áreas costeiras, fábrica de produtos químicos, com até 100% de umidade relativa do ar (poluição do ar elevado)	120°C	C4

Redutores com proteção opcional para classe **C3** ou **C4** estão disponíveis em diversas cores. Se nenhuma cor específica for solicitada (ver a opção “PINTURA”), os redutores serão acabados na cor RAL 7042.

Os redutores também podem ser fornecidos com proteção de superfície para corrosividade classe **C5** de acordo com a norma UNI EN ISO 12944-2. Entre em contato com a nossa Assistência Técnica para mais detalhes.

## PINTURA

Redutores com proteção opcional para classe C3 ou C4 estão disponíveis nas cores descritas na tabela abaixo.

(B 14)

PINTURA	Cor	número RAL
<b>RAL7042*</b>	Cinza Tráfego A	7042
<b>RAL5010</b>	Azul Genciano	5010
<b>RAL9005</b>	Preto de Jato	9005
<b>RAL9006</b>	Alumínio Branco	9006
<b>RAL9010</b>	Branco Puro	9010

\* Se nenhuma cor específica for solicitada os redutores serão acabados na cor RAL 7042.

NOTA – Opções de “PINTURA” também podem ser especificadas em conjunto com as opções de “PROTEÇÃO DE SUPERFÍCIE”.

## CERTIFICADOS

### AC - Certificado de Conformidade

O documento certifica a conformidade do produto com a ordem de compra e a construção em conformidade com os procedimentos aplicáveis do Sistema de Qualidade da Bonfiglioli.



### CC - Certificado de Inspeção

O documento implica a verificação do cumprimento do pedido, a inspeção visual das condições externas e das dimensões de acoplamento. A verificação dos principais parâmetros funcionais na condição descarregado também é feita juntamente com a vedação do óleo, tanto na condição estática como na condição de funcionamento. As unidades inspecionadas são amostradas dentro do lote de transporte e marcadas individualmente.

## 20.2 Opções de motor

### AA, AC, AD

Posição mútua da alavanca de liberação do freio e caixa de terminais. Visualização pelo lado da ventoinha. Posição padrão = 90° no sentido horário. AA = 0°, AC = 180°, AD = 90° no sentido anti-horário.

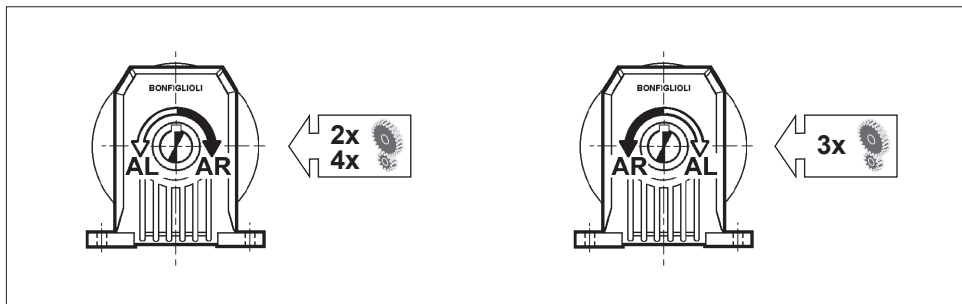
### AL, AR

Um dispositivo contrarrecuo instalado no próprio motor, conforme descrição na seção “Motores Elétricos” deste catálogo, está disponível para redutores com motores integrais Série M ou ME. A tabela abaixo mostra o sentido de rotação livre do redutor, com base no qual a opção correta deve ser selecionada.

### CF

Filtro capacitivo.

(B 15)



### D3

3 sensores bimetálicos de temperatura bobinagem, calibrados a 150°C.

### E3

3 termistores de temperatura de bobinagem, calibrados a 150°C.

### F1

Volante de inércia para partida e parada suaves.

### H1

Aquecedores anticondensação. Tensão padrão: 1~ 230V ±10%.

### PN

60 Hz de potência correspondente à potência normalizada de 50 Hz.

### PS

Extensão de eixo duplo (exceto opções RC e U1).

### RC

Tampa de gotejamento (exceto opção PS).

### RV

Balanceamento do rotor em vibração classe B.



### TC

A opção TC é uma variante de cobertura contra chuva para ambientes da indústria têxtil. Esta opção não é compatível com as variantes EN\_.

### TP

Tropicalização.

### U1

Refrigeração forçada (exceto opções PS e CUS).

### U2

Ventilação forçada com alimentação separada, sem caixa de terminais. Cabos com fios já instalados. A configuração não é compatível com as opções PS e CUS. Disponível nos motores: BN 71, BE 80 ... BE 132, M1, ME2 ... ME4.

Para mais informações sobre opções, consulte a seção “Motores Elétricos”.

## 21 LUBRIFICAÇÃO

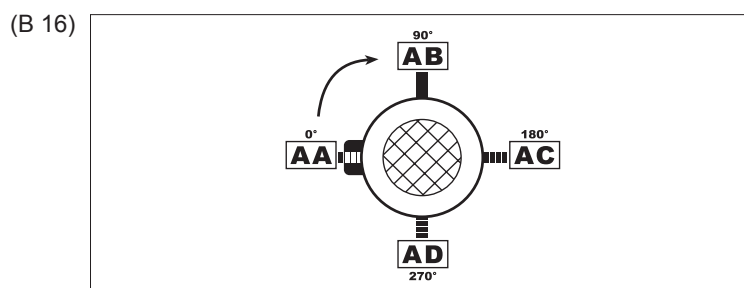
As peças internas dos redutores Bonfiglioli são banhadas em óleo e lubrificadas por meio de borrião. Quadros tamanhos C05, C12, C22, C32, C36 e C41 são fornecidos pela fábrica ou pelos revendedores autorizados já preenchidos com óleo. Salvo especificado de outro modo, unidades tamanho C51 ou maior são geralmente fornecidas sem lubrificação uma vez que o cliente é responsável pelo abastecimento de óleo antes de colocá-las em operação. Em ambos os casos, dependendo da versão, antes de colocar o redutor em operação poderá ser necessário substituir o bujão fechado usado para fins de transporte por um bujão de respiro fornecido com o produto. Para tabelas de referência colocação de bujões de óleo e quantidade de lubrificante, consulte o Manual de Instalação, Operação e Manutenção (disponível no site: [www.bonfiglioli.com](http://www.bonfiglioli.com)). O lubrificante de “longa duração” à base de poliglicol fornecido pela fábrica, se não estiver contaminado, não requer trocas de óleo periódicas durante a vida útil do redutor. A operação dos redutores é permitida a temperaturas ambiente entre  $-20^{\circ}\text{C}$  e  $+40^{\circ}\text{C}$ . Entretanto, para temperaturas entre  $-20^{\circ}\text{C}$  e  $-10^{\circ}\text{C}$ , a unidade só poderá ser iniciada depois de ter sido gradual e uniformemente pré-aquecida ou inicialmente operada sem carga. A carga poderá então ser conectada ao eixo de saída quando o redutor tiver atingido a temperatura de  $-10^{\circ}\text{C}$ , ou superior.

## 22 POSIÇÃO DE MONTAGEM E ORIENTAÇÃO DA CAIXA DE TERMINAIS

A localização da caixa de terminais do motor pode ser especificada visualizando o motor pelo lado da ventoinha; a localização padrão é mostrada em preto (W).

### Posição angular da alavanca de liberação do freio.

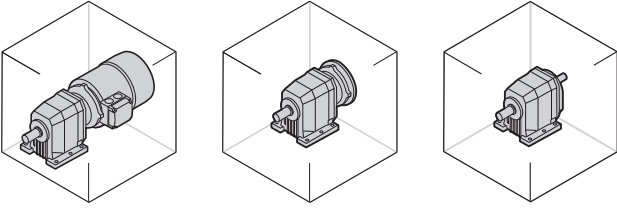
Salvo especificado de outro modo, motores com freio têm o lado do dispositivo manual localizado a um ângulo de  $90^{\circ}$  da caixa de terminais. Ângulos diferentes podem ser especificados utilizando as opções pertinentes disponíveis.



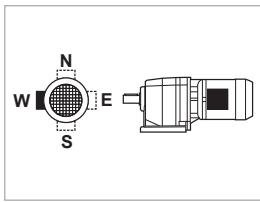


# C ... P - NP

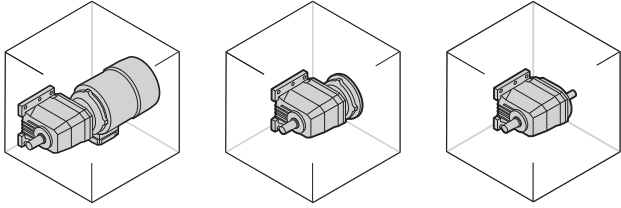
## B3



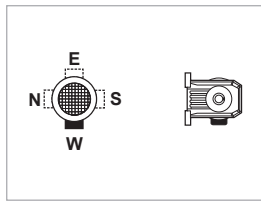
\_S    \_P(IEC) \_N(NEMA) \_SK / \_SC    \_HS    \_NHS



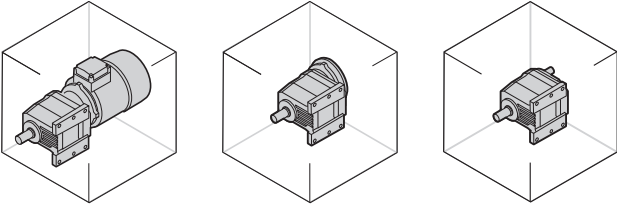
## B6



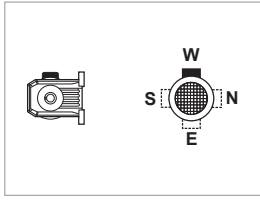
\_S    \_P(IEC) \_N(NEMA) \_SK / \_SC    \_HS    \_NHS



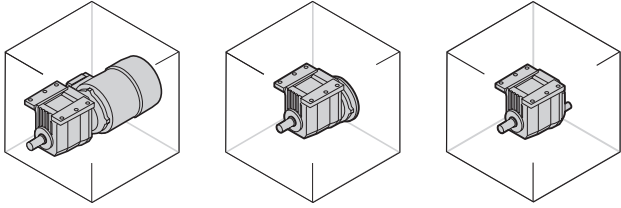
## B7



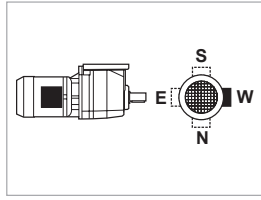
\_S    \_P(IEC) \_N(NEMA) \_SK / \_SC    \_HS    \_NHS



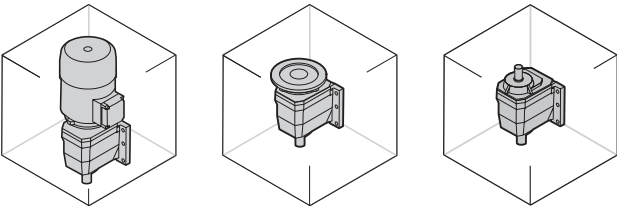
## B8



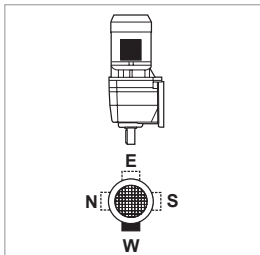
\_S    \_P(IEC) \_N(NEMA) \_SK / \_SC    \_HS    \_NHS



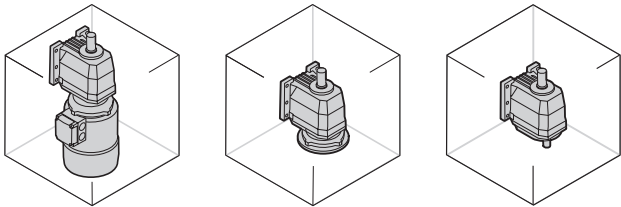
## V5



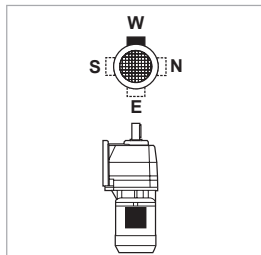
\_S    \_P(IEC) \_N(NEMA) \_SK / \_SC    \_HS    \_NHS



## V6



\_S    \_P(IEC) \_N(NEMA) \_SK / \_SC    \_HS    \_NHS



W = Default

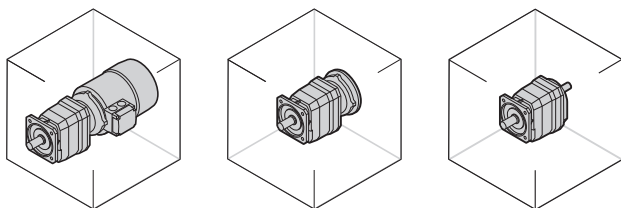


# C ... F - NF

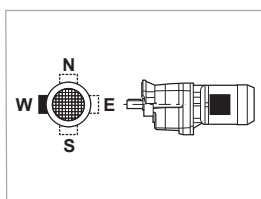
# C ... U - NU

# C ... UF - NUF

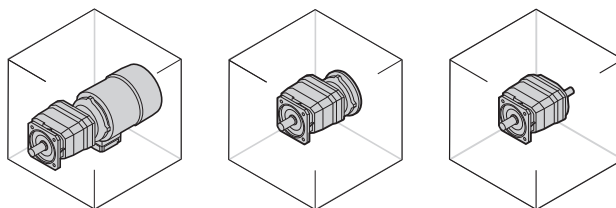
## B5



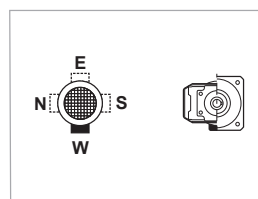
**\_S**    **\_P(IEC)** **\_N(NEMA)** **\_SK / \_SC**    **\_HS**    **\_NHS**



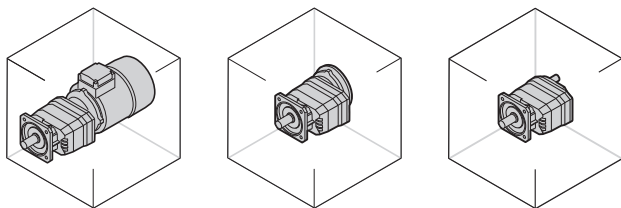
## B51



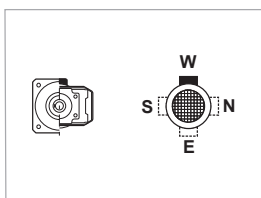
**\_S**    **\_P(IEC)** **\_N(NEMA)** **\_SK / \_SC**    **\_HS**    **\_NHS**



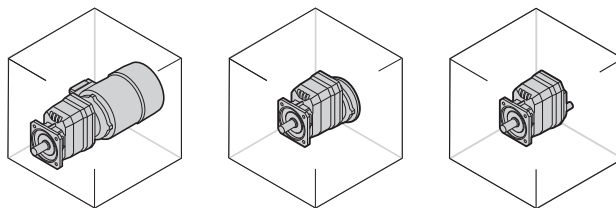
## B53



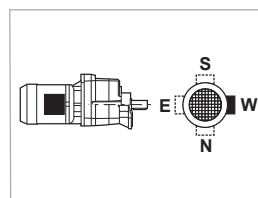
**\_S**    **\_P(IEC)** **\_N(NEMA)** **\_SK / \_SC**    **\_HS**    **\_NHS**



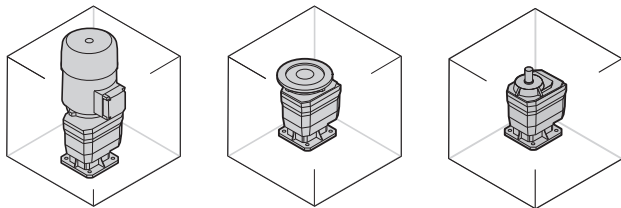
## B52



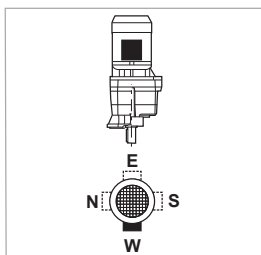
**\_S**    **\_P(IEC)** **\_N(NEMA)** **\_SK / \_SC**    **\_HS**    **\_NHS**



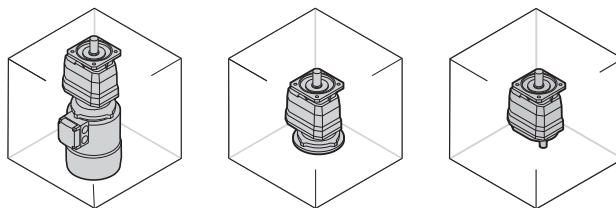
## V1



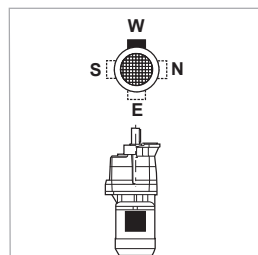
**\_S**    **\_P(IEC)** **\_N(NEMA)** **\_SK / \_SC**    **\_HS**    **\_NHS**



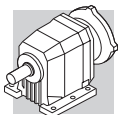
## V3



**\_S**    **\_P(IEC)** **\_N(NEMA)** **\_SK / \_SC**    **\_HS**    **\_NHS**



W = Default



## 23 CARGAS RADIAIS

Transmissões externas chavetadas no eixo de entrada e/ou saída geram cargas que atuam radialmente sobre o mesmo eixo. A carga resultante sobre o eixo deve ser compatível com a capacidade do rolamento e do eixo. A saber, a carga sobre o eixo ( $R_{c1}$  para o eixo de entrada,  $R_{c2}$  para o eixo de saída) deve ser igual ou menor que a capacidade de carga radial permitida para o eixo em estudo ( $R_{n1}$  para o eixo de entrada,  $R_{n2}$  para o eixo de saída). Capacidade OHL informada na tabela de classificação. Nas fórmulas apresentadas abaixo, o índice (1) refere-se aos parâmetros do eixo de entrada, enquanto o índice (2) refere-se ao eixo de saída.

A carga gerada por uma transmissão externa pode ser calculada de forma bastante aproximada com as seguintes equações:

$$R_{c1} [N] = \frac{2000 \cdot M_1 [Nm] \cdot K_r}{d [mm]} \quad ; \quad R_{c2} [N] = \frac{2000 \cdot M_2 [Nm] \cdot K_r}{d [mm]} \quad (15)$$

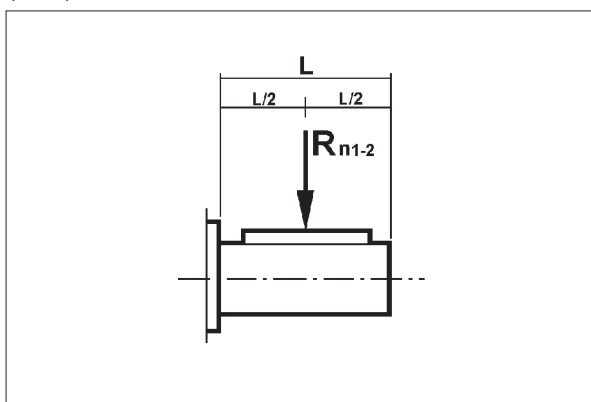
(B 17)

$M_1$ [Nm]	Torque aplicado ao eixo de entrada
$M_2$ [Nm]	Torque produzido no eixo de saída
$d$ [in]	Diâmetro primitivo do elemento chavetado no eixo
$K_r = 1$	Transmissão por corrente

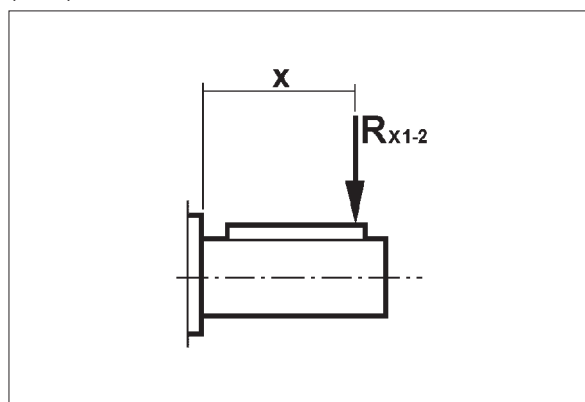
$K_r = 1.25$	Transmissão por engrenagem
$K_r = 1.5$	Transmissão por correia tipo V
$K_r = 2.0$	Transmissão por correia plana

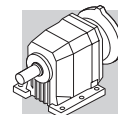
A verificação da capacidade OHL varia dependendo de se a carga é aplicada no ponto médio do eixo ou se ela é deslocada para a ponta:

(B 18)



(B 19)





### a) Carga aplicada no ponto médio do eixo, guia. (B18)

Uma comparação de carga sobre o eixo com as classificações do catálogo OHL deve verificar a seguinte condição:

$$R_{c1} \leq R_{n1} \quad [\text{eixo de entrada}]$$

ou

$$R_{c2} \leq R_{n2} \quad [\text{eixo de saída}]$$

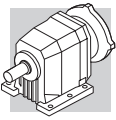
### b) Carga fora da guia de ponto médio. (B19)

Quando a carga é deslocada a uma distância “x” do batente mecânico do eixo, a carga permitida deve ser calculada para essa distância. Cargas radiais permitidas revisadas  $R_{x1}$  (entrada) e  $R_{x2}$  (saída) são calculadas respectivamente a partir dos valores nominais originais  $R_{n1}$  e  $R_{n2}$  com o fator:

$$\frac{a}{b+x} \quad (16)$$

(B 20)

	Fatores de localização de carga [mm]					
	Eixo de saída			Eixo de entrada		
	a	b	c	a	b	c
C 05 2	38	18	250	—	—	—
C 12 2	46	26	450	21	1	300
C 22 2	53	28	550	40	20	350
C 22 3	53	28	550	21	1	300
C 32 2	60.5	30.5	750	41.5	21.5	350
C 32 3	60.5	30.5	750	21	1	300
C 36 2 - C 36 3	69.5	34.5	800	51.5	26.5	450
C 36 4	69.5	34.5	800	21	1	300
C 41 2 - C 41 3	69.5	34.5	850	51.5	26.5	450
C 41 4	69.5	34.5	850	40	20	350
C 51 2 - C 51 3	76.5	36.5	900	51.5	26.5	450
C 51 4	76.5	36.5	900	41.5	21.5	350
C 61 2 - C 61 3	95.5	45.5	1000	57.5	27.5	450
C 61 4	95.5	45.5	1000	51.5	26.5	450
C 70 2 - C 70 3	114	54	1200	86	31	1000
C 70 4	114	54	1200	49.5	24.5	450
C 80 2 - C 80 3	131	61	1500	86	31	1000
C 80 4	131	61	1500	49.5	24.5	450
C 90 2 - C 90 3	161	76	2000	116	46	1400
C 90 4	161	76	2000	49.5	24.5	450
C 100 2 - C 100 3	163.5	58.5	2500	116	46	1400
C 100 4	163.5	58.5	2500	49.5	24.5	450



O procedimento de verificação é descrito abaixo.

### EIXO DE ENTRADA

1. Calcular:

$$R_{x1} = R_{n1} \cdot \frac{a}{b+x} \quad (17)$$

OBS: Sujeito à condição:

$$\frac{L}{2} \leq x \leq c \quad (18)$$

Por fim, a condição abaixo deve ser verificada:

$$R_{c1} \leq R_{x1} \quad (19)$$

### EIXO DE SAÍDA

1. Calcular:

$$R_{x2} = R_{n2} \cdot \frac{a}{b+x} \quad (20)$$

OBS: Sujeito à condição:

$$\frac{L}{2} \leq x \leq c \quad (21)$$

Por fim, a condição abaixo deve ser verificada:

$$R_{c2} \leq R_{x2} \quad (22)$$

## 24 CARGAS AXIAIS, $A_{n1}$ , $A_{n2}$

As cargas axiais permitidas nos eixos de entrada [ $A_{n1}$ ] e de saída [ $A_{n2}$ ] são obtidas a partir da carga radial do eixo em consideração [ $R_{n1}$ ] e [ $R_{n2}$ ] por meio da seguinte equação:

$$\begin{aligned} A_{n1} &= R_{n1} \cdot 0.2 \\ A_{n2} &= R_{n2} \cdot 0.2 \end{aligned} \quad (23)$$

As cargas axiais calculadas com estas fórmulas aplicam-se às forças axiais ocorridas ao mesmo tempo que as cargas radiais nominais. No único caso que nenhuma carga radial atue sobre o eixo, o valor da carga axial permitida [ $A_n$ ] equivale a 50% de OHL nominal [ $R_n$ ] sobre o mesmo eixo. Quando as cargas axiais excederem o valor permitido ou prevalecerem em grande parte sobre as cargas radiais, entre em contato com a Bonfiglioli Redutores para uma análise detalhada da aplicação.



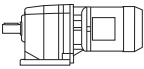

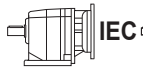


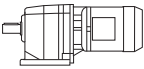

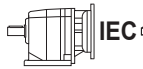




## 25 TABELAS DE CLASSIFICAÇÃO DE MOTOREDUTORES

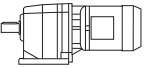

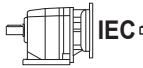


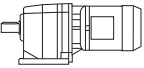

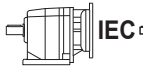


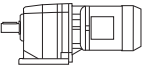

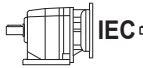


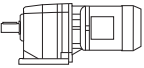

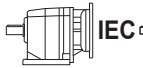


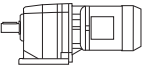

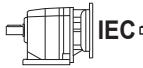




A seleção de motores sem freio leva em consideração os requisitos da Norma EC 640/2009 (ver a seção **M** deste catálogo). Quando a potência nominal do motor for maior que 0,75kW, motores BN/M podem ser fornecidos. Considerando que a Norma EC 640/2009 não é aplicável aos motores equipados com freio, a escolha do motofreio leva em consideração apenas motores BN/M, sem considerar a potência nominal. Motofreios BE e ME estão disponíveis mediante solicitação.

### 0.09 kW

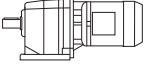



n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 			
37	22	2.1	44.7	1066			 IEC 			
41	20	2.3	40.3	902					C052_44.7 S0 M0B4	118
46	18	2.6	36.4	893					C052_40.3 S0 M0B4	118
51	16	2.8	32.8	875					C052_36.4 S0 M0B4	118

### 0.12 kW

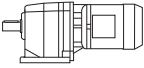



n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 			
1.1	903	2.5	1475.8	23175			 IEC 			
1.2	834	2.8	1362.3	23175					C704_1476 P63 BN63A4	176
1.9	542	1.8	884.9	9120					C704_1362 P63 BN63A4	176
2.0	524	1.1	855.5	6370					C514_884.9 P63 BN63A4	160
2.1	494	2.0	796.1	14624	C414_855.5 S05 M05A4	154	C414_855.5 P63 BN63A4	152		
2.2	478	1.3	780.4	6370			 IEC 			
2.2	462	1.0	754.2	5941					C614_796.1 P63 BN63A4	168
2.3	450	1.3	735.9	6370	C414_780.4 S05 M05A4	154	C414_780.4 P63 BN63A4	152		
2.4	439	2.3	717.7	9120	C364_754.2 S05 M05A4	146	C364_754.2 P63 BN63A4	144		
2.5	411	1.5	671.3	6370	C414_735.9 S05 M05A4	154	C414_735.9 P63 BN63A4	152		
2.5	408	1.1	665.9	5941			 IEC 			
2.6	401	2.5	655.4	9120					C514_717.7 P63 BN63A4	160
2.8	368	2.7	602.0	9120					C514_671.3 P63 BN63A4	152
2.8	365	1.6	595.8	6370	C414_671.3 S05 M05A4	154	C414_671.3 P63 BN63A4	152		
2.9	352	1.3	574.7	5941	C364_665.9 S05 M05A4	146	C364_665.9 P63 BN63A4	144		
3.1	336	3.0	549.7	9120			 IEC 			
3.1	333	1.8	543.5	6370					C514_655.4 P63 BN63A4	160
3.3	317	1.4	517.2	5941	C414_595.8 S05 M05A4	154	C414_595.8 P63 BN63A4	152		
3.4	302	2.0	493.5	6370	C364_574.7 S05 M05A4	146	C364_574.7 P63 BN63A4	144		
3.7	281	1.6	458.4	5941	C414_543.5 S05 M05A4	154	C414_543.5 P63 BN63A4	152		
3.8	276	2.2	450.2	6370	C364_517.2 S05 M05A4	146	C364_517.2 P63 BN63A4	144		
4.0	257	1.7	420.2	5941	C414_493.5 S05 M05A4	154	C414_493.5 P63 BN63A4	152		
					C364_458.4 S05 M05A4	146	C364_458.4 P63 BN63A4	144		
					C414_450.2 S05 M05A4	154	C414_450.2 P63 BN63A4	152		
					C364_420.2 S05 M05A4	146	C364_420.2 P63 BN63A4	144		



## 0.12 kW

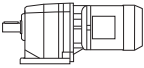



n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
4.0	256	2.3	418.5	6370	C414_418.5 S05 M05A4	154	C414_418.5 P63 BN63A4	152
4.4	234	2.6	381.8	6370	C414_381.8 S05 M05A4	154	C414_381.8 P63 BN63A4	152
4.5	231	1.9	377.9	5941	C364_377.9 S05 M05A4	146	C364_377.9 P63 BN63A4	144
4.9	209	2.2	341.7	5941	C364_341.7 S05 M05A4	146	C364_341.7 P63 BN63A4	144
5.1	204	2.9	333.4	6370	C414_333.4 S05 M05A4	154	C414_333.4 P63 BN63A4	152
5.3	195	2.3	318.9	5941	C364_318.9 S05 M05A4	146	C364_318.9 P63 BN63A4	144
5.8	178	2.5	290.9	5941	C364_290.9 S05 M05A4	146	C364_290.9 P63 BN63A4	144
6.2	174	1.4	274.7	5044	C323_274.7 S05 M05A4	138	C323_274.7 P63 BN63A4	136
6.6	156	2.9	255.0	5941	C364_255.0 S05 M05A4	146	C364_255.0 P63 BN63A4	144
6.9	154	1.6	244.2	5044	C323_244.2 S05 M05A4	138	C323_244.2 P63 BN63A4	136
7.5	143	1.2	225.8	4570	C223_225.8 S05 M05A4	130	C223_225.8 P63 BN63A4	128
7.8	136	2.2	215.6	5044	C323_215.6 S05 M05A4	138	C323_215.6 P63 BN63A4	136
8.4	127	1.4	200.7	4570	C223_200.7 S05 M05A4	130	C223_200.7 P63 BN63A4	128
9.1	118	2.5	186.0	5044	C323_186.0 S05 M05A4	138	C323_186.0 P63 BN63A4	136
9.5	113	1.8	178.5	4570	C223_178.5 S05 M05A4	130	C223_178.5 P63 BN63A4	128
10.1	106	2.8	167.4	5044	C323_167.4 S05 M05A4	138	C323_167.4 P63 BN63A4	136
11.1	96	2.1	151.7	4570	C223_151.7 S05 M05A4	130	C223_151.7 P63 BN63A4	128
12.4	86	2.3	136.5	4570	C223_136.5 S05 M05A4	130	C223_136.5 P63 BN63A4	128
13.8	77	2.6	122.2	4570	C223_122.2 S05 M05A4	130	C223_122.2 P63 BN63A4	128
15.1	71	2.8	112.0	4570	C223_112.0 S05 M05A4	130	C223_112.0 P63 BN63A4	128
25.5	43	2.0	66.2	1822	C122_66.2 S05 M05A4	122	C122_66.2 P63 BN63A4	120
26.7	41	2.9	63.3	4570	C222_63.3 S05 M05A4	130	C222_63.3 P63 BN63A4	128
31	36	2.5	55.2	1822	C122_55.2 S05 M05A4	122	C122_55.2 P63 BN63A4	120
36	31	2.8	47.6	1822	C122_47.6 S05 M05A4	122	C122_47.6 P63 BN63A4	120
38	29	1.6	44.7	920	C052_44.7 S05 M05A4	118		
42	26	1.7	40.3	902	C052_40.3 S05 M05A4	118		
46	23	1.9	36.4	893	C052_36.4 S05 M05A4	118		
52	21	2.1	32.8	875	C052_32.8 S05 M05A4	118		
62	18	2.6	27.1	847	C052_27.1 S05 M05A4	118		

## 0.18 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
1.1	1413	2.8	1481.3	32410			C804_1481 P63 BN63B4	182
1.1	1408	1.6	1475.8	23175			C704_1476 P63 BN63B4	176
1.2	1300	1.8	1362.3	23175			C704_1362 P63 BN63B4	176
1.4	1105	2.1	1158.1	23175			C704_1158 P63 BN63B4	176
1.6	1020	2.3	1069.1	23175			C704_1069 P63 BN63B4	176
1.7	953	2.4	999.5	23175			C704_999.5 P63 BN63B4	176
1.8	880	2.6	922.6	23175			C704_922.6 P63 BN63B4	176
1.9	844	1.2	884.9	9120			C514_884.9 P63 BN63B4	160
2.1	771	1.3	808.0	9120			C514_808.0 P63 BN63B4	160
2.1	759	2.1	796.1	14624			C614_796.1 P63 BN63B4	168

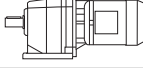





## 0.18 kW

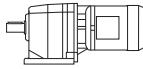



n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
2.3	693	2.3	726.3	14624			<b>C614_726.3 P63 BN63B4</b>	168
2.3	685	1.5	717.7	9120			<b>C514_717.7 P63 BN63B4</b>	160
2.5	640	0.9	671.3	6370	<b>C414_671.3 S05 M05B4</b>	154	<b>C414_671.3 P63 BN63B4</b>	152
2.5	638	2.5	668.8	14624			<b>C614_668.8 P63 BN63B4</b>	168
2.5	625	1.6	655.4	9120			<b>C514_655.4 P63 BN63B4</b>	160
2.7	582	2.7	610.1	14624			<b>C614_610.1 P63 BN63B4</b>	168
2.8	574	1.7	602.0	9120			<b>C514_602.0 P63 BN63B4</b>	160
2.8	568	1.1	595.8	6370	<b>C414_595.8 S05 M05B4</b>	154	<b>C414_595.8 P63 BN63B4</b>	152
2.9	545	2.9	571.2	14624			<b>C614_571.2 P63 BN63B4</b>	168
3.0	524	1.9	549.7	9120			<b>C514_549.7 P63 BN63B4</b>	160
3.1	519	1.2	543.5	6370	<b>C414_543.5 S05 M05B4</b>	154	<b>C414_543.5 P63 BN63B4</b>	152
3.2	493	0.9	517.2	5941	<b>C364_517.2 S05 M05B4</b>	146	<b>C364_517.2 P63 BN63B4</b>	144
3.3	485	2.1	508.0	9120			<b>C514_508.0 P63 BN63B4</b>	160
3.4	471	1.3	493.5	6370	<b>C414_493.5 S05 M05B4</b>	154	<b>C414_493.5 P63 BN63B4</b>	152
3.6	443	2.3	463.9	9120			<b>C514_463.9 P63 BN63B4</b>	160
3.6	437	1.0	458.4	5941	<b>C364_458.4 S05 M05B4</b>	146	<b>C364_458.4 P63 BN63B4</b>	144
3.7	430	1.4	450.2	6370	<b>C414_450.2 S05 M05B4</b>	154	<b>C414_450.2 P63 BN63B4</b>	152
4.0	401	1.1	420.2	5941	<b>C364_420.2 S05 M05B4</b>	146	<b>C364_420.2 P63 BN63B4</b>	144
4.0	399	1.5	418.5	6370	<b>C414_418.5 S05 M05B4</b>	154	<b>C414_418.5 P63 BN63B4</b>	152
4.0	397	2.5	415.7	9120			<b>C514_415.7 P63 BN63B4</b>	160
4.4	364	1.6	381.8	6370	<b>C414_381.8 S05 M05B4</b>	154	<b>C414_381.8 P63 BN63B4</b>	152
4.4	362	2.8	379.6	9120			<b>C514_379.6 P63 BN63B4</b>	160
4.4	361	1.2	377.9	5941	<b>C364_377.9 S05 M05B4</b>	146	<b>C364_377.9 P63 BN63B4</b>	144
4.9	326	1.4	341.7	5941	<b>C364_341.7 S05 M05B4</b>	146	<b>C364_341.7 P63 BN63B4</b>	144
5.0	318	1.9	333.4	6370	<b>C414_333.4 S05 M05B4</b>	154	<b>C414_333.4 P63 BN63B4</b>	152
5.2	304	1.5	318.9	5941	<b>C364_318.9 S05 M05B4</b>	146	<b>C364_318.9 P63 BN63B4</b>	144
5.5	290	2.1	304.2	6370	<b>C414_304.2 S05 M05B4</b>	154	<b>C414_304.2 P63 BN63B4</b>	152
5.7	278	1.6	290.9	5941	<b>C364_290.9 S05 M05B4</b>	146	<b>C364_290.9 P63 BN63B4</b>	144
6.3	251	2.4	263.0	6370	<b>C414_263.0 S05 M05B4</b>	154	<b>C414_263.0 P63 BN63B4</b>	152
6.5	243	1.8	255.0	5941	<b>C364_255.0 S05 M05B4</b>	146	<b>C364_255.0 P63 BN63B4</b>	144
6.8	241	1.0	244.2	5044	<b>C323_244.2 S05 M05B4</b>	138	<b>C323_244.2 P63 BN63B4</b>	136
7.0	229	2.6	239.9	6370	<b>C414_239.9 S05 M05B4</b>	154	<b>C414_239.9 P63 BN63B4</b>	152
7.2	220	2.0	230.9	5941	<b>C364_230.9 S05 M05B4</b>	146	<b>C364_230.9 P63 BN63B4</b>	144
7.7	213	1.4	215.6	5044	<b>C323_215.6 S05 M05B4</b>	138	<b>C323_215.6 P63 BN63B4</b>	136
8.0	206	2.9	209.1	6370			<b>C413_209.1 P63 BN63B4</b>	152
8.1	203	2.2	206.4	5941	<b>C363_206.4 S05 M05B4</b>	146	<b>C363_206.4 P63 BN63B4</b>	144
9.0	183	1.6	186.0	5044	<b>C323_186.0 S05 M05B4</b>	138	<b>C323_186.0 P63 BN63B4</b>	136
9.1	181	2.5	183.5	5941	<b>C363_183.5 S05 M05B4</b>	146	<b>C363_183.5 P63 BN63B4</b>	144
9.4	176	1.1	178.5	4570	<b>C223_178.5 S05 M05B4</b>	130	<b>C223_178.5 P63 BN63B4</b>	128
10.0	165	1.8	167.4	5044	<b>C323_167.4 S05 M05B4</b>	138	<b>C323_167.4 P63 BN63B4</b>	136
10.3	160	2.8	162.0	5941	<b>C363_162.0 S05 M05B4</b>	146	<b>C363_162.0 P63 BN63B4</b>	144
11.0	150	1.3	151.7	4570	<b>C223_151.7 S05 M05B4</b>	130	<b>C223_151.7 P63 BN63B4</b>	128
11.3	146	2.1	148.4	5044	<b>C323_148.4 S05 M05B4</b>	138	<b>C323_148.4 P63 BN63B4</b>	136
12.2	135	1.5	136.5	4570	<b>C223_136.5 S05 M05B4</b>	130	<b>C223_136.5 P63 BN63B4</b>	128
12.3	134	2.2	136.0	5044	<b>C323_136.0 S05 M05B4</b>	138	<b>C323_136.0 P63 BN63B4</b>	136



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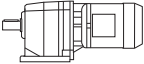




n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
13.6	121	2.5	122.4	5044	C323_122.4 S05 M05B4	138	C323_122.4 P63 BN63B4	136
13.7	120	1.7	122.2	4570	C223_122.2 S05 M05B4	130	C223_122.2 P63 BN63B4	128
14.9	110	1.8	112.0	4570	C223_112.0 S05 M05B4	130	C223_112.0 P63 BN63B4	128
15.1	109	2.8	110.6	5044	C323_110.6 S05 M05B4	138	C323_110.6 P63 BN63B4	136
16.2	102	2.9	103.3	5044	C323_103.3 S05 M05B4	138	C323_103.3 P63 BN63B4	136
16.7	99	2.0	100.2	4570	C223_100.2 S05 M05B4	130	C223_100.2 P63 BN63B4	128
18.9	87	2.3	88.5	4570	C223_88.5 S05 M05B4	130	C223_88.5 P63 BN63B4	128
20.2	81	2.5	82.6	4570	C223_82.6 S05 M05B4	130	C223_82.6 P63 BN63B4	128
22.3	74	2.7	74.8	4570	C223_74.8 S05 M05B4	130	C223_74.8 P63 BN63B4	128
25.2	67	1.3	66.2	1822	C122_66.2 S05 M05B4	122	C122_66.2 P63 BN63B4	120
26.4	64	1.9	63.3	4570	C222_63.3 S05 M05B4	130	C222_63.3 P63 BN63B4	128
30	56	1.6	55.2	1822	C122_55.2 S05 M05B4	122	C122_55.2 P63 BN63B4	120
31	55	2.6	54.7	4570	C222_54.7 S05 M05B4	130	C222_54.7 P63 BN63B4	128
34	49	2.9	48.6	4570	C222_48.6 S05 M05B4	130	C222_48.6 P63 BN63B4	128
35	48	1.8	47.6	1822	C122_47.6 S05 M05B4	122	C122_47.6 P63 BN63B4	120
37	45	1.0	44.7	774	C052_44.7 S05 M05B4	118		
39	43	1.9	42.3	1822	C122_42.3 S05 M05B4	122	C122_42.3 P63 BN63B4	120
41	41	1.1	40.3	774	C052_40.3 S05 M05B4	118		
45	37	2.2	37.0	1822	C122_37.0 S05 M05B4	122	C122_37.0 P63 BN63B4	120
46	37	1.2	36.4	774	C052_36.4 S05 M05B4	118		
51	33	1.4	32.8	765	C052_32.8 S05 M05B4	118		
51	33	2.5	32.8	1822	C122_32.8 S05 M05B4	122	C122_32.8 P63 BN63B4	120
57	30	2.8	29.5	1822	C122_29.5 S05 M05B4	122	C122_29.5 P63 BN63B4	120
62	27	1.6	27.1	747	C052_27.1 S05 M05B4	118		
80	21	2.1	21.0	738	C052_21.0 S05 M05B4	118		
88	19	1.9	18.9	720	C052_18.9 S05 M05B4	118		
107	16	2.3	15.6	692	C052_15.6 S05 M05B4	118		
134	13	2.9	12.5	674	C052_12.5 S05 M05B4	118		
179	9	2.9	9.3	629	C052_9.3 S05 M05B4	118		

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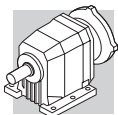
n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
1.1	1866	2.1	1481.3	32410			C804_1481 P71 BN71A4	182
1.1	1859	1.2	1475.8	23175			C704_1476 P71 BN71A4	176
1.2	1716	1.3	1362.3	23175			C704_1362 P71 BN71A4	176
1.2	1711	2.3	1357.8	32410			C804_1358 P71 BN71A4	182
1.3	1606	2.5	1274.2	32410			C804_1274 P71 BN71A4	182
1.4	1472	2.7	1168.0	32410			C804_1168 P71 BN71A4	182
1.4	1459	1.6	1158.1	23175			C704_1158 P71 BN71A4	176
1.6	1347	1.7	1069.1	23175			C704_1069 P71 BN71A4	176
1.7	1259	1.8	999.5	23175			C704_999.5 P71 BN71A4	176
1.8	1162	2.0	922.6	23175			C704_922.6 P71 BN71A4	176
2.1	1018	1.0	808.0	9120			C514_808.0 P71 BN71A4	160







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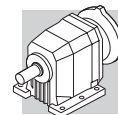
n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
2.1	1005	2.3	797.3	23175			C704_797.3 P71 BN71A4	176
2.1	1003	1.6	796.1	14624			C614_796.1 P71 BN71A4	168
2.3	927	2.5	736.0	23175			C704_736.0 P71 BN71A4	176
2.3	915	1.7	726.3	14624			C614_726.3 P71 BN71A4	168
2.3	904	1.1	717.7	9120			C514_717.7 P71 BN71A4	160
2.5	843	1.9	668.8	14624			C614_668.8 P71 BN71A4	168
2.5	828	2.8	657.3	23175			C704_657.3 P71 BN71A4	176
2.5	826	1.2	655.4	9120			C514_655.4 P71 BN71A4	160
2.7	769	2.1	610.1	14624			C614_610.1 P71 BN71A4	168
2.8	759	1.3	602.0	9120			C514_602.0 P71 BN71A4	160
2.9	720	2.2	571.2	14624			C614_571.2 P71 BN71A4	168
3.0	693	1.4	549.7	9120			C514_549.7 P71 BN71A4	160
3.2	657	2.4	521.1	14624			C614_521.1 P71 BN71A4	168
3.3	640	1.6	508.0	9120			C514_508.0 P71 BN71A4	160
3.4	622	1.0	493.5	6370	C414_493.5 S05 M05C4	154	C414_493.5 P71 BN71A4	152
3.6	584	1.7	463.9	9120			C514_463.9 P71 BN71A4	160
3.6	582	2.7	462.0	14624			C614_462.0 P71 BN71A4	168
3.7	567	1.1	450.2	6370	C414_450.2 S05 M05C4	154	C414_450.2 P71 BN71A4	152
4.0	527	1.1	418.5	6370	C414_418.5 S05 M05C4	154	C414_418.5 P71 BN71A4	152
4.0	524	1.9	415.7	9120			C514_415.7 P71 BN71A4	160
4.4	481	1.2	381.8	6370	C414_381.8 S05 M05C4	154	C414_381.8 P71 BN71A4	152
4.4	478	2.1	379.6	9120			C514_379.6 P71 BN71A4	160
4.4	476	0.9	377.9	5941	C364_377.9 S05 M05C4	146	C364_377.9 P71 BN71A4	144
4.9	431	1.0	341.7	5941	C364_341.7 S05 M05C4	146	C364_341.7 P71 BN71A4	144
5.0	420	1.4	333.4	6370	C414_333.4 S05 M05C4	154	C414_333.4 P71 BN71A4	152
5.1	411	2.4	326.1	9120			C514_326.1 P71 BN71A4	160
5.2	402	1.1	318.9	5941	C364_318.9 S05 M05C4	146	C364_318.9 P71 BN71A4	144
5.5	383	1.6	304.2	6370	C414_304.2 S05 M05C4	154	C414_304.2 P71 BN71A4	152
5.6	375	2.7	297.8	9120			C514_297.8 P71 BN71A4	160
5.7	367	1.2	290.9	5941	C364_290.9 S05 M05C4	146	C364_290.9 P71 BN71A4	144
6.3	331	1.8	263.0	6370	C414_263.0 S05 M05C4	154	C414_263.0 P71 BN71A4	152
6.5	321	1.4	255.0	5941	C364_255.0 S05 M05C4	146	C364_255.0 P71 BN71A4	144
7.0	302	2.0	239.9	6370	C414_239.9 S05 M05C4	154	C414_239.9 P71 BN71A4	152
7.2	291	1.5	230.9	5941	C364_230.9 S05 M05C4	146	C364_230.9 P71 BN71A4	144
7.7	281	1.1	215.6	5044	C323_215.6 S05 M05C4	138	C323_215.6 P71 BN71A4	136
8.0	272	2.2	209.1	6370			C413_209.1 P71 BN71A4	152
8.1	269	1.7	206.4	5941			C363_206.4 P71 BN71A4	144
8.8	248	2.4	190.8	6370			C413_190.8 P71 BN71A4	152
9.0	242	1.2	186.0	5044	C323_186.0 S05 M05C4	138	C323_186.0 P71 BN71A4	136
9.1	239	1.9	183.5	5941			C363_183.5 P71 BN71A4	144
9.3	234	2.6	179.9	6370			C413_179.9 P71 BN71A4	152
10.0	218	1.4	167.4	5044	C323_167.4 S05 M05C4	138	C323_167.4 P71 BN71A4	136
10.2	214	2.8	164.1	6370			C413_164.1 P71 BN71A4	152
10.3	211	2.1	162.0	5941			C363_162.0 P71 BN71A4	144
11.0	197	1.0	151.7	4570	C223_151.7 S05 M05C4	130	C223_151.7 P71 BN71A4	128









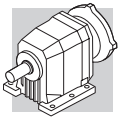
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n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
11.3	193	1.6	148.4	5044	C323_148.4 S05 M05C4	138	C323_148.4 P71 BN71A4	136
11.9	182	2.5	139.8	5941			C363_139.8 P71 BN71A4	144
12.2	178	1.1	136.5	4570	C223_136.5 S05 M05C4	130	C223_136.5 P71 BN71A4	128
12.3	177	1.7	136.0	5044	C323_136.0 S05 M05C4	138	C323_136.0 P71 BN71A4	136
13.3	164	2.7	125.8	5941			C363_125.8 P71 BN71A4	144
13.6	159	1.9	122.4	5044	C323_122.4 S05 M05C4	138	C323_122.4 P71 BN71A4	136
13.7	159	1.3	122.2	4570	C223_122.2 S05 M05C4	130	C223_122.2 P71 BN71A4	128
14.9	146	1.4	112.0	4570	C223_112.0 S05 M05C4	130	C223_112.0 P71 BN71A4	128
15.1	144	2.1	110.6	5044	C323_110.6 S05 M05C4	138	C323_110.6 P71 BN71A4	136
16.2	134	2.2	103.3	5044	C323_103.3 S05 M05C4	138	C323_103.3 P71 BN71A4	136
16.7	130	1.5	100.2	4570	C223_100.2 S05 M05C4	130	C223_100.2 P71 BN71A4	128
17.7	123	2.4	94.2	5044	C323_94.2 S05 M05C4	138	C323_94.2 P71 BN71A4	136
18.9	115	1.7	88.5	4570	C223_88.5 S05 M05C4	130	C223_88.5 P71 BN71A4	128
20.2	108	1.9	82.6	4570	C223_82.6 S05 M05C4	130	C223_82.6 P71 BN71A4	128
20.2	107	2.8	82.6	5044	C323_82.6 S05 M05C4	138	C323_82.6 P71 BN71A4	136
22.3	97	2.1	74.8	4570	C223_74.8 S05 M05C4	130	C223_74.8 P71 BN71A4	128
22.3	97	2.9	74.7	5044	C323_74.7 S05 M05C4	138	C323_74.7 P71 BN71A4	136
25.0	89	2.3	66.8	5044			C322_66.8 P71 BN71A4	136
25.2	88	1.0	66.2	1822	C122_66.2 S05 M05C4	122	C122_66.2 P71 BN71A4	120
25.6	85	2.4	65.3	4570	C223_65.3 S05 M05C4	130	C223_65.3 P71 BN71A4	128
26.4	84	1.4	63.3	4570	C222_63.3 S05 M05C4	130	C222_63.3 P71 BN71A4	128
27.8	78	2.3	60.0	4570	C223_60.0 S05 M05C4	130	C223_60.0 P71 BN71A4	128
28.1	79	2.6	59.4	5044			C322_59.4 P71 BN71A4	136
30	73	1.2	55.2	1822	C122_55.2 S05 M05C4	122	C122_55.2 P71 BN71A4	120
31	73	2.0	54.7	4570	C222_54.7 S05 M05C4	130	C222_54.7 P71 BN71A4	128
34	65	2.2	48.6	4570	C222_48.6 S05 M05C4	130	C222_48.6 P71 BN71A4	128
35	63	1.3	47.6	1822	C122_47.6 S05 M05C4	122	C122_47.6 P71 BN71A4	120
39	56	1.5	42.3	1822	C122_42.3 S05 M05C4	122	C122_42.3 P71 BN71A4	120
45	49	1.7	37.0	1822	C122_37.0 S05 M05C4	122	C122_37.0 P71 BN71A4	120
46	48	0.9	36.4	592	C052_36.4 S05 M05C4	118		
51	44	1.0	32.8	619	C052_32.8 S05 M05C4	118		
51	44	1.9	32.8	1822	C122_32.8 S05 M05C4	122	C122_32.8 P71 BN71A4	120
57	39	2.1	29.5	1822	C122_29.5 S05 M05C4	122	C122_29.5 P71 BN71A4	120
62	36	1.2	27.1	638	C052_27.1 S05 M05C4	118		
66	34	2.4	25.4	1822	C122_25.4 S05 M05C4	122	C122_25.4 P71 BN71A4	120
72	31	2.5	23.2	1822	C122_23.2 S05 M05C4	122	C122_23.2 P71 BN71A4	120
80	28	1.6	21.0	656	C052_21.0 S05 M05C4	118		
81	27	2.7	20.6	1822	C122_20.6 S05 M05C4	122	C122_20.6 P71 BN71A4	120
88	25	1.5	18.9	647	C052_18.9 S05 M05C4	118		
91	24	2.9	18.4	1822	C122_18.4 S05 M05C4	122	C122_18.4 P71 BN71A4	120
107	21	1.8	15.6	638	C052_15.6 S05 M05C4	118		
134	17	2.2	12.5	629	C052_12.5 S05 M05C4	118		
149	15	2.5	11.2	610	C052_11.2 S05 M05C4	118		
179	12	2.2	9.3	592	C052_9.3 S05 M05C4	118		
225	10	2.8	7.4	565	C052_7.4 S05 M05C4	118		







## 0.37 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
1.1	2786	1.4	1481.3	32410	C804_1481 S1 M1SD4	184	C804_1481 P71 BN71B4	182
1.3	2554	1.6	1357.8	32410	C804_1358 S1 M1SD4	184	C804_1358 P71 BN71B4	182
1.3	2397	1.7	1274.2	32410	C804_1274 S1 M1SD4	184	C804_1274 P71 BN71B4	182
1.5	2197	1.8	1168.0	32410	C804_1168 S1 M1SD4	184	C804_1168 P71 BN71B4	182
1.5	2178	1.1	1158.1	23175	C704_1158 S1 M1SD4	178	C704_1158 P71 BN71B4	176
1.6	2011	1.1	1069.1	23175	C704_1069 S1 M1SD4	178	C704_1069 P71 BN71B4	176
1.6	1941	2.1	1031.7	32410	C804_1032 S1 M1SD4	184	C804_1032 P71 BN71B4	182
1.7	1880	1.2	999.5	23175	C704_999.5 S1 M1SD4	178	C704_999.5 P71 BN71B4	176
1.8	1779	2.2	945.7	32410	C804_945.7 S1 M1SD4	184	C804_945.7 P71 BN71B4	182
1.8	1735	1.3	922.6	23175	C704_922.6 S1 M1SD4	178	C704_922.6 P71 BN71B4	176
2.0	1607	2.5	854.6	32410	C804_854.6 S1 M1SD4	184	C804_854.6 P71 BN71B4	182
2.1	1500	1.5	797.3	23175	C704_797.3 S1 M1SD4	178	C704_797.3 P71 BN71B4	176
2.1	1497	1.1	796.1	14624	C614_796.1 S1 M1SD4	170	C614_796.1 P71 BN71B4	168
2.2	1474	2.7	783.4	32410	C804_783.4 S1 M1SD4	184	C804_783.4 P71 BN71B4	182
2.3	1384	1.7	736.0	23175	C704_736.0 S1 M1SD4	178	C704_736.0 P71 BN71B4	176
2.3	1366	1.2	726.3	14624	C614_726.3 S1 M1SD4	170	C614_726.3 P71 BN71B4	168
2.3	1363	2.9	724.7	32410	C804_724.7 S1 M1SD4	184	C804_724.7 P71 BN71B4	182
2.5	1258	1.3	668.8	14624	C614_668.8 S1 M1SD4	170	C614_668.8 P71 BN71B4	168
2.6	1236	1.9	657.3	23175	C704_657.3 S1 M1SD4	178	C704_657.3 P71 BN71B4	176
2.8	1148	1.4	610.1	14624	C614_610.1 S1 M1SD4	170	C614_610.1 P71 BN71B4	168
2.8	1141	2.0	606.8	23175	C704_606.8 S1 M1SD4	178	C704_606.8 P71 BN71B4	176
3.0	1074	1.5	571.2	14624	C614_571.2 S1 M1SD4	170	C614_571.2 P71 BN71B4	168
3.1	1043	2.2	554.7	23175	C704_554.7 S1 M1SD4	178	C704_554.7 P71 BN71B4	176
3.1	1034	1.0	549.7	9120	C514_549.7 S1 M1SD4	162	C514_549.7 P71 BN71B4	160
3.3	980	1.6	521.1	14624	C614_521.1 S1 M1SD4	170	C614_521.1 P71 BN71B4	168
3.3	963	2.4	512.0	23175	C704_512.0 S1 M1SD4	178	C704_512.0 P71 BN71B4	176
3.3	956	1.0	508.0	9120	C514_508.0 S1 M1SD4	162	C514_508.0 P71 BN71B4	160
3.7	873	1.1	463.9	9120	C514_463.9 S1 M1SD4	162	C514_463.9 P71 BN71B4	160
3.7	869	1.8	462.0	14624	C614_462.0 S1 M1SD4	170	C614_462.0 P71 BN71B4	168
3.8	834	2.8	443.5	23175	C704_443.5 S1 M1SD4	178	C704_443.5 P71 BN71B4	176
4.0	793	2.0	421.5	14624	C614_421.5 S1 M1SD4	170	C614_421.5 P71 BN71B4	168
4.1	782	1.3	415.7	9120	C514_415.7 S1 M1SD4	162	C514_415.7 P71 BN71B4	160
4.2	770	3.0	409.4	23175	C704_409.4 S1 M1SD4	178	C704_409.4 P71 BN71B4	176
4.5	714	1.4	379.6	9120	C514_379.6 S1 M1SD4	162	C514_379.6 P71 BN71B4	160
4.6	696	2.3	370.1	14624	C614_370.1 S1 M1SD4	170	C614_370.1 P71 BN71B4	168
5.0	635	2.5	337.7	14624	C614_337.7 S1 M1SD4	170	C614_337.7 P71 BN71B4	168
5.1	627	1.0	333.4	6370	C414_333.4 S1 M1SD4	154	C414_333.4 P71 BN71B4	152
5.2	613	1.6	326.1	9120	C514_326.1 S1 M1SD4	162	C514_326.1 P71 BN71B4	160
5.6	572	1.0	304.2	6370	C414_304.2 S1 M1SD4	154	C414_304.2 P71 BN71B4	152
5.6	568	2.8	301.7	14624	C614_301.7 S1 M1SD4	170	C614_301.7 P71 BN71B4	168
5.7	560	1.8	297.8	9120	C514_297.8 S1 M1SD4	162	C514_297.8 P71 BN71B4	160
6.4	496	2.0	263.8	9120	C514_263.8 S1 M1SD4	162	C514_263.8 P71 BN71B4	160
6.5	495	1.2	263.0	6370	C414_263.0 S1 M1SD4	154	C414_263.0 P71 BN71B4	152
6.7	480	0.9	255.0	5575	C364_255.0 S1 M1SD4	146	C364_255.0 P71 BN71B4	144
7.1	453	2.2	240.9	9120	C514_240.9 S1 M1SD4	162	C514_240.9 P71 BN71B4	160
7.1	451	1.3	239.9	6370	C414_239.9 S1 M1SD4	154	C414_239.9 P71 BN71B4	152
7.4	434	1.0	230.9	5758	C364_230.9 S1 M1SD4	146	C364_230.9 P71 BN71B4	144
7.8	421	2.4	216.7	9120	C513_216.7 S1 M1SD4	162	C513_216.7 P71 BN71B4	160
8.1	406	1.5	209.1	6370	C413_209.1 S1 M1SD4	154	C413_209.1 P71 BN71B4	152
8.2	401	1.1	206.4	5941	C363_206.4 P71 BN71B4		C363_206.4 P71 BN71B4	144
8.6	385	2.6	197.9	9120	C513_197.9 S1 M1SD4	162	C513_197.9 P71 BN71B4	160
8.9	371	1.6	190.8	6370	C413_190.8 S1 M1SD4	154	C413_190.8 P71 BN71B4	152
9.3	357	1.3	183.5	5941	C363_183.5 P71 BN71B4		C363_183.5 P71 BN71B4	144
9.5	350	1.7	179.9	6370	C413_179.9 S1 M1SD4	154	C413_179.9 P71 BN71B4	152
9.7	342	2.9	175.8	9120	C513_175.8 S1 M1SD4	162	C513_175.8 P71 BN71B4	160
10.2	325	0.9	167.4	4860	C323_167.4 S1 M1SD4	138	C323_167.4 P71 BN71B4	136
10.4	319	1.9	164.1	6370	C413_164.1 S1 M1SD4	154	C413_164.1 P71 BN71B4	152
10.5	315	1.4	162.0	5941	C363_162.0 P71 BN71B4	146	C363_162.0 P71 BN71B4	144
11.5	288	1.0	148.4	5044	C323_148.4 S1 M1SD4	138	C323_148.4 P71 BN71B4	136
11.7	283	2.1	145.6	6370	C413_145.6 S1 M1SD4	154	C413_145.6 P71 BN71B4	152







## 0.37 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
12.2	272	1.7	139.8	5941	C363_139.8 S1 M1SD4	146	C363_139.8 P71 BN71B4	144
12.5	264	1.1	136.0	5044	C323_136.0 S1 M1SD4	138	C323_136.0 P71 BN71B4	136
12.8	258	2.3	132.9	6370	C413_132.9 S1 M1SD4	154	C413_132.9 P71 BN71B4	152
13.5	245	1.8	125.8	5941	C363_125.8 S1 M1SD4	146	C363_125.8 P71 BN71B4	144
13.9	238	1.3	122.4	5044	C323_122.4 S1 M1SD4	138	C323_122.4 P71 BN71B4	136
14.1	234	2.6	120.6	6370	C413_120.6 S1 M1SD4	154	C413_120.6 P71 BN71B4	152
15.2	218	0.9	112.0	4067	C223_112.0 S1 M1SD4	130	C223_112.0 P71 BN71B4	128
15.2	217	2.1	111.5	5941	C363_111.5 S1 M1SD4	146	C363_111.5 P71 BN71B4	144
15.4	215	1.4	110.6	5044	C323_110.6 S1 M1SD4	138	C323_110.6 P71 BN71B4	136
15.4	214	2.8	110.1	6370	C413_110.1 S1 M1SD4	154	C413_110.1 P71 BN71B4	152
16.5	201	1.5	103.3	5044	C323_103.3 S1 M1SD4	138	C323_103.3 P71 BN71B4	136
16.6	199	2.3	102.2	5941	C363_102.2 S1 M1SD4	146	C363_102.2 P71 BN71B4	144
17.0	195	1.0	100.2	4250	C223_100.2 S1 M1SD4	130	C223_100.2 P71 BN71B4	128
18.1	183	1.6	94.2	5044	C323_94.2 S1 M1SD4	138	C323_94.2 P71 BN71B4	136
18.5	179	2.5	91.9	5941	C363_91.9 S1 M1SD4	146	C363_91.9 P71 BN71B4	144
19.2	172	1.2	88.5	4433	C223_88.5 S1 M1SD4	130	C223_88.5 P71 BN71B4	128
20.5	162	2.8	83.1	5941	C363_83.1 S1 M1SD4	146	C363_83.1 P71 BN71B4	144
20.6	161	1.2	82.6	4570	C223_82.6 S1 M1SD4	130	C223_82.6 P71 BN71B4	128
20.6	160	1.9	82.6	5044	C323_82.6 S1 M1SD4	138	C323_82.6 P71 BN71B4	136
21.9	151	3.0	77.6	5941	C363_77.6 S1 M1SD4	146	C363_77.6 P71 BN71B4	144
22.7	145	1.4	74.8	4570	C223_74.8 S1 M1SD4	130	C223_74.8 P71 BN71B4	128
22.7	145	1.9	74.7	5044	C323_74.7 S1 M1SD4	138	C323_74.7 P71 BN71B4	136
25.4	133	1.5	66.8	5044			C322_66.8 P71 BN71B4	136
26.0	127	1.6	65.3	4570	C223_65.3 S1 M1SD4	130	C223_65.3 P71 BN71B4	128
26.9	126	1.0	63.3	4433			C222_63.3 P71 BN71B4	128
28.3	117	1.5	60.0	4570	C223_60.0 S1 M1SD4	130	C223_60.0 P71 BN71B4	128
28.6	118	1.7	59.4	5044			C322_59.4 P71 BN71B4	136
31	109	1.3	54.7	4570			C222_54.7 P71 BN71B4	128
32	104	2.9	52.4	5044	C322_52.4 S1 M1SD4	138	C322_52.4 P71 BN71B4	136
35	97	1.5	48.6	4433			C222_48.6 P71 BN71B4	128
39	86	2.0	43.3	4140	C222_43.3 S1 M1SD4	130	C222_43.3 P71 BN71B4	128
40	84	1.0	42.3	1822			C122_42.3 P71 BN71B4	120
46	73	1.1	37.0	1822	C122_37.0 S1 M1SD4	122	C122_37.0 P71 BN71B4	120
46	73	2.5	36.8	3985	C222_36.8 S1 M1SD4	130	C222_36.8 P71 BN71B4	128
51	66	2.8	33.1	3875	C222_33.1 S1 M1SD4	130	C222_33.1 P71 BN71B4	128
52	65	1.3	32.8	1822	C122_32.8 S1 M1SD4	122	C122_32.8 P71 BN71B4	120
58	59	1.4	29.5	1822	C122_29.5 S1 M1SD4	122	C122_29.5 P71 BN71B4	120
67	50	1.6	25.4	1822	C122_25.4 S1 M1SD4	122	C122_25.4 P71 BN71B4	120
73	46	1.7	23.2	1822	C122_23.2 S1 M1SD4	122	C122_23.2 P71 BN71B4	120
81	42	1.1	21.0	510	C052_21.0 S1 M1SD4	118		
82	41	1.8	20.6	1822	C122_20.6 S1 M1SD4	122	C122_20.6 P71 BN71B4	120
90	38	1.0	18.9	510	C052_18.9 S1 M1SD4	118		
92	37	2.0	18.4	1822	C122_18.4 S1 M1SD4	122	C122_18.4 P71 BN71B4	120
99	34	2.0	17.2	1822	C122_17.2 S1 M1SD4	122	C122_17.2 P71 BN71B4	120
109	31	1.2	15.6	528	C052_15.6 S1 M1SD4	118		
110	31	2.2	15.4	1822	C122_15.4 S1 M1SD4	122	C122_15.4 P71 BN71B4	120
127	27	2.4	13.4	1822	C122_13.4 S1 M1SD4	122	C122_13.4 P71 BN71B4	120
136	25	1.5	12.5	547	C052_12.5 S1 M1SD4	118		
143	24	2.6	11.9	1822	C122_11.9 S1 M1SD4	122	C122_11.9 P71 BN71B4	120
151	22	1.6	11.2	537	C052_11.2 S1 M1SD4	118		
169	20	2.9	10.1	1758	C122_10.1 S1 M1SD4	122	C122_10.1 P71 BN71B4	120
183	18	1.5	9.3	528	C052_9.3 S1 M1SD4	118		
229	15	1.9	7.4	519	C052_7.4 S1 M1SD4	118		
254	13	2.1	6.7	510	C052_6.7 S1 M1SD4	118		
307	11	2.5	5.5	492	C052_5.5 S1 M1SD4	118		



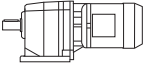





## 0.55 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
1.2	4159	1.0	1481.3	32410	C804_1481 S1 M1LA4	184	C804_1481 P80 BN80A4	182
1.3	3813	1.0	1357.8	32410	C804_1358 S1 M1LA4	184	C804_1358 P80 BN80A4	182
1.3	3578	1.1	1274.2	32410	C804_1274 S1 M1LA4	184	C804_1274 P80 BN80A4	182
1.4	3483	2.1	1240.4	55620	C904_1240 S1 M1LA4	190	C904_1240 P80 BN80A4	188
1.5	3280	1.2	1168.0	32410	C804_1168 S1 M1LA4	184	C804_1168 P80 BN80A4	182
1.5	3193	2.3	1137.1	55620	C904_1137 S1 M1LA4	190	C904_1137 P80 BN80A4	188
1.7	2897	1.4	1031.7	32410	C804_1032 S1 M1LA4	184	C804_1032 P80 BN80A4	182
1.7	2825	2.5	1006.1	55620	C904_1006 S1 M1LA4	190	C904_1006 P80 BN80A4	188
1.8	2656	1.5	945.7	32410	C804_945.7 S1 M1LA4	184	C804_945.7 P80 BN80A4	182
1.9	2590	2.8	922.3	55620	C904_922.3 S1 M1LA4	190	C904_922.3 P80 BN80A4	188
2.0	2400	1.7	854.6	32410	C804_854.6 S1 M1LA4	184	C804_854.6 P80 BN80A4	182
2.1	2239	1.0	797.3	23175	C704_797.3 S1 M1LA4	178	C704_797.3 P80 BN80A4	176
2.2	2200	1.8	783.4	32410	C804_783.4 S1 M1LA4	184	C804_783.4 P80 BN80A4	182
2.3	2067	1.1	736.0	23175	C704_736.0 S1 M1LA4	178	C704_736.0 P80 BN80A4	176
2.4	2035	2.0	724.7	32410	C804_724.7 S1 M1LA4	184	C804_724.7 P80 BN80A4	182
2.6	1865	2.1	664.3	32410	C804_664.3 S1 M1LA4	184	C804_664.3 P80 BN80A4	182
2.6	1846	1.2	657.3	23175	C704_657.3 S1 M1LA4	178	C704_657.3 P80 BN80A4	176
2.8	1713	0.9	610.1	14624	C614_610.1 S1 M1LA4	170	C614_610.1 P80 BN80A4	168
2.8	1704	1.3	606.8	23175	C704_606.8 S1 M1LA4	178	C704_606.8 P80 BN80A4	176
3.0	1621	2.5	577.4	32410	C804_577.4 S1 M1LA4	184	C804_577.4 P80 BN80A4	182
3.0	1604	1.0	571.2	14624	C614_571.2 S1 M1LA4	170	C614_571.2 P80 BN80A4	168
3.1	1558	1.5	554.7	23175	C704_554.7 S1 M1LA4	178	C704_554.7 P80 BN80A4	176
3.2	1486	2.7	529.3	32410	C804_529.3 S1 M1LA4	184	C804_529.3 P80 BN80A4	182
3.3	1463	1.1	521.1	14624	C614_521.1 S1 M1LA4	170	C614_521.1 P80 BN80A4	168
3.3	1438	1.6	512.0	23175	C704_512.0 S1 M1LA4	178	C704_512.0 P80 BN80A4	176
3.7	1297	1.2	462.0	14624	C614_462.0 S1 M1LA4	170	C614_462.0 P80 BN80A4	168
3.9	1245	1.8	443.5	23175	C704_443.5 S1 M1LA4	178	C704_443.5 P80 BN80A4	176
4.1	1184	1.4	421.5	14624	C614_421.5 S1 M1LA4	170	C614_421.5 P80 BN80A4	168
4.2	1150	2.0	409.4	23175	C704_409.4 S1 M1LA4	178	C704_409.4 P80 BN80A4	176
4.5	1066	0.9	379.6	9120	C514_379.6 S1 M1LA4	162	C514_379.6 P80 BN80A4	160
4.6	1039	1.5	370.1	14624	C614_370.1 S1 M1LA4	170	C614_370.1 P80 BN80A4	168
5.0	967	2.4	344.3	23175	C704_344.3 S1 M1LA4	178	C704_344.3 P80 BN80A4	176
5.1	948	1.7	337.7	14624	C614_337.7 S1 M1LA4	170	C614_337.7 P80 BN80A4	168
5.2	916	1.1	326.1	9120	C514_326.1 S1 M1LA4	162	C514_326.1 P80 BN80A4	160
5.4	893	2.6	317.9	23175	C704_317.9 S1 M1LA4	178	C704_317.9 P80 BN80A4	176
5.7	847	1.9	301.7	14624	C614_301.7 S1 M1LA4	170	C614_301.7 P80 BN80A4	168
5.7	836	1.2	297.8	9120	C514_297.8 S1 M1LA4	162	C514_297.8 P80 BN80A4	160
6.2	773	2.1	275.3	14624	C614_275.3 S1 M1LA4	170	C614_275.3 P80 BN80A4	168
6.5	741	1.4	263.8	9120	C514_263.8 S1 M1LA4	162	C514_263.8 P80 BN80A4	160
7.1	676	1.5	240.9	9120	C514_240.9 S1 M1LA4	162	C514_240.9 P80 BN80A4	160
7.2	669	2.4	238.3	14624	C614_238.3 S1 M1LA4	170	C614_238.3 P80 BN80A4	168
7.9	610	2.6	217.4	14624	C614_217.4 S1 M1LA4	170	C614_217.4 P80 BN80A4	168
7.9	629	1.6	216.7	9120	C513_216.7 S1 M1LA4	162	C513_216.7 P80 BN80A4	160
8.2	607	1.0	209.1	6370	C413_209.1 S1 M1LA4	154	C413_209.1 P80 BN80A4	152
8.6	574	1.7	197.9	9120	C513_197.9 S1 M1LA4	162	C513_197.9 P80 BN80A4	160
8.7	550	2.9	195.8	14624	C613_195.8 S1 M1LA4	170	C613_195.8 P80 BN80A4	168
9.0	554	1.1	190.8	6370	C413_190.8 S1 M1LA4	154	C413_190.8 P80 BN80A4	152
9.5	522	1.1	179.9	6370	C413_179.9 S1 M1LA4	154	C413_179.9 P80 BN80A4	152
9.7	510	2.0	175.8	9120	C513_175.8 S1 M1LA4	162	C513_175.8 P80 BN80A4	160
10.4	476	1.3	164.1	6370	C413_164.1 S1 M1LA4	154	C413_164.1 P80 BN80A4	152
10.6	470	1.0	162.0	5941	C363_162.0 S1 M1LA4	146	C363_162.0 P80 BN80A4	144
10.7	466	2.1	160.5	9120	C513_160.5 S1 M1LA4	162	C513_160.5 P80 BN80A4	160
11.6	428	2.3	147.4	9120	C513_147.4 S1 M1LA4	162	C513_147.4 P80 BN80A4	160
11.7	423	1.4	145.6	6370	C413_145.6 S1 M1LA4	154	C413_145.6 P80 BN80A4	152
12.2	406	1.1	139.8	5941	C363_139.8 S1 M1LA4	146	C363_139.8 P80 BN80A4	144
12.7	391	2.6	134.6	9120	C513_134.6 S1 M1LA4	162	C513_134.6 P80 BN80A4	160
12.9	386	1.6	132.9	6370	C413_132.9 S1 M1LA4	154	C413_132.9 P80 BN80A4	152
13.6	365	1.2	125.8	5941	C363_125.8 S1 M1LA4	146	C363_125.8 P80 BN80A4	144
13.7	361	2.8	124.4	9120	C513_124.4 S1 M1LA4	162	C513_124.4 P80 BN80A4	160
14.2	350	1.7	120.6	6370	C413_120.6 S1 M1LA4	154	C413_120.6 P80 BN80A4	152








## 0.55 kW

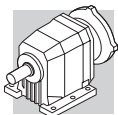
n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
15.3	324	1.4	111.5	5941	C363_111.5 S1 M1LA4	146	C363_111.5 P80 BN80A4	144
15.5	321	0.9	110.6	5044	C323_110.6 S1 M1LA4	138	C323_110.6 P80 BN80A4	136
15.5	319	1.9	110.1	6370	C413_110.1 S1 M1LA4	154	C413_110.1 P80 BN80A4	152
16.6	300	1.0	103.3	5044	C323_103.3 S1 M1LA4	138	C323_103.3 P80 BN80A4	136
16.7	297	2.0	102.3	6370	C413_102.3 S1 M1LA4	154	C413_102.3 P80 BN80A4	152
16.7	297	1.5	102.2	5941	C363_102.2 S1 M1LA4	146	C363_102.2 P80 BN80A4	144
18.2	273	1.1	94.2	5044	C323_94.2 S1 M1LA4	138	C323_94.2 P80 BN80A4	136
18.3	271	2.2	93.3	6370	C413_93.3 S1 M1LA4	154	C413_93.3 P80 BN80A4	152
18.6	267	1.7	91.9	5941	C363_91.9 S1 M1LA4	146	C363_91.9 P80 BN80A4	144
20.6	241	1.9	83.1	5941	C363_83.1 S1 M1LA4	146	C363_83.1 P80 BN80A4	144
20.7	240	1.3	82.6	5044	C323_82.6 S1 M1LA4	138	C323_82.6 P80 BN80A4	136
21.0	237	2.5	81.5	6370	C413_81.5 S1 M1LA4	154	C413_81.5 P80 BN80A4	152
22.0	225	2.0	77.6	5941	C363_77.6 S1 M1LA4	146	C363_77.6 P80 BN80A4	144
22.9	217	0.9	74.8	3985	C223_74.8 S1 M1LA4	130	C223_74.8 P80 BN80A4	128
22.9	217	1.3	74.7	5044	C323_74.7 S1 M1LA4	138	C323_74.7 P80 BN80A4	136
23.0	216	2.7	74.4	6370	C413_74.4 S1 M1LA4	154	C413_74.4 P80 BN80A4	152
24.2	205	2.2	70.8	5941	C363_70.8 S1 M1LA4	146	C363_70.8 P80 BN80A4	144
25.6	198	1.0	66.8	5044			C322_66.8 P80 BN80A4	136
26.2	190	1.1	65.3	3948	C223_65.3 S1 M1LA4	130	C223_65.3 P80 BN80A4	128
27.6	180	2.5	62.0	5941	C363_62.0 S1 M1LA4	146	C363_62.0 P80 BN80A4	144
28.5	174	1.0	60.0	3912	C223_60.0 S1 M1LA4	130	C223_60.0 P80 BN80A4	128
28.8	176	1.2	59.4	5044	C322_59.4 S1 M1LA4	138	C322_59.4 P80 BN80A4	136
30	163	2.8	56.2	5941	C363_56.2 S1 M1LA4	146	C363_56.2 P80 BN80A4	144
33	155	1.9	52.4	5044	C322_52.4 S1 M1LA4	138	C322_52.4 P80 BN80A4	136
35	144	1.0	48.6	3656	C222_48.6 S1 M1LA4	130	C222_48.6 P80 BN80A4	128
38	134	2.2	45.3	5044	C322_45.3 S1 M1LA4	138	C322_45.3 P80 BN80A4	136
40	128	1.4	43.3	3830	C222_43.3 S1 M1LA4	130	C222_43.3 P80 BN80A4	128
42	121	2.4	40.7	5044	C322_40.7 S1 M1LA4	138	C322_40.7 P80 BN80A4	136
47	109	1.7	36.8	3720	C222_36.8 S1 M1LA4	130	C222_36.8 P80 BN80A4	128
47	107	2.6	36.1	5044	C322_36.1 S1 M1LA4	138	C322_36.1 P80 BN80A4	136
52	98	1.9	33.1	3629	C222_33.1 S1 M1LA4	130	C222_33.1 P80 BN80A4	128
52	98	2.8	33.1	5044	C322_33.1 S1 M1LA4	138	C322_33.1 P80 BN80A4	136
58	88	2.1	29.6	3555	C222_29.6 S1 M1LA4	130	C222_29.6 P80 BN80A4	128
58	87	0.9	29.5	1822	C122_29.5 S1 M1LA4	122	C122_29.5 P80 BN80A4	120
63	80	2.3	27.2	3528	C222_27.2 S1 M1LA4	130	C222_27.2 P80 BN80A4	128
67	75	1.1	25.4	1822	C122_25.4 S1 M1LA4	122	C122_25.4 P80 BN80A4	120
70	72	2.6	24.3	3400	C222_24.3 S1 M1LA4	130	C222_24.3 P80 BN80A4	128
74	69	1.1	23.2	1822	C122_23.2 S1 M1LA4	122	C122_23.2 P80 BN80A4	120
80	64	2.8	21.5	3382	C222_21.5 S1 M1LA4	130	C222_21.5 P80 BN80A4	128
83	61	1.2	20.6	1822	C122_20.6 S1 M1LA4	122	C122_20.6 P80 BN80A4	120
85	59	2.9	20.0	3254	C222_20.0 S1 M1LA4	130	C222_20.0 P80 BN80A4	128
93	55	1.3	18.4	1822	C122_18.4 S1 M1LA4	122	C122_18.4 P80 BN80A4	120
100	51	1.4	17.2	1822	C122_17.2 S1 M1LA4	122	C122_17.2 P80 BN80A4	120
111	46	1.5	15.4	1822	C122_15.4 S1 M1LA4	122	C122_15.4 P80 BN80A4	120
128	40	1.6	13.4	1813	C122_13.4 S1 M1LA4	122	C122_13.4 P80 BN80A4	120
137	37	1.0	12.5	410	C052_12.5 S1 M1LA4	118		
144	35	1.7	11.9	1749	C122_11.9 S1 M1LA4	122	C122_11.9 P80 BN80A4	120
152	33	1.1	11.2	437	C052_11.2 S1 M1LA4	118		
170	30	1.9	10.1	1685	C122_10.1 S1 M1LA4	122	C122_10.1 P80 BN80A4	120
184	28	1.0	9.3	410	C052_9.3 S1 M1LA4	118		
194	26	2.1	8.8	1622	C122_8.8 S1 M1LA4	122	C122_8.8 P80 BN80A4	120
224	23	2.3	7.6	1567	C122_7.6 S1 M1LA4	122	C122_7.6 P80 BN80A4	120
231	22	1.3	7.4	419	C052_7.4 S1 M1LA4	118		
256	20	1.4	6.7	410	C052_6.7 S1 M1LA4	118		
274	18	2.6	6.2	1448	C122_6.2 S1 M1LA4	122	C122_6.2 P80 BN80A4	120
305	17	2.8	5.6	1403	C122_5.6 S1 M1LA4	122	C122_5.6 P80 BN80A4	120
309	16	1.7	5.5	392	C052_5.5 S1 M1LA4	118		



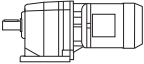



## 0.75 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
1.4	4577	1.6	1240.4	55620	C904_1240 S2 ME2SB4	190	C904_1240 P80 BE80B4	188
1.5	4310	0.9	1168.0	32410	C804_1168 S2 ME2SB4	184	C804_1168 P80 BE80B4	182
1.5	4196	1.7	1137.1	55620	C904_1137 S2 ME2SB4	190	C904_1137 P80 BE80B4	188
1.7	3807	1.1	1031.7	32410	C804_1032 S2 ME2SB4	184	C804_1032 P80 BE80B4	182
1.7	3713	1.9	1006.1	55620	C904_1006 S2 ME2SB4	190	C904_1006 P80 BE80B4	188
1.8	3490	1.1	945.7	32410	C804_945.7 S2 ME2SB4	184	C804_945.7 P80 BE80B4	182
1.9	3403	2.1	922.3	55620	C904_922.3 S2 ME2SB4	190	C904_922.3 P80 BE80B4	188
2.0	3153	1.3	854.6	32410	C804_854.6 S2 ME2SB4	184	C804_854.6 P80 BE80B4	182
2.1	3114	2.3	844.0	55620	C904_844.0 S2 ME2SB4	190	C904_844.0 P80 BE80B4	188
2.2	2891	1.4	783.4	32410	C804_783.4 S2 ME2SB4	184	C804_783.4 P80 BE80B4	182
2.3	2855	2.5	773.6	55620	C904_773.6 S2 ME2SB4	190	C904_773.6 P80 BE80B4	188
2.4	2674	1.5	724.7	32410	C804_724.7 S2 ME2SB4	184	C804_724.7 P80 BE80B4	182
2.5	2628	2.7	712.2	55620	C904_712.2 S2 ME2SB4	190	C904_712.2 P80 BE80B4	188
2.6	2451	1.6	664.3	32410	C804_664.3 S2 ME2SB4	184	C804_664.3 P80 BE80B4	182
2.7	2426	0.9	657.3	23175	C704_657.3 S2 ME2SB4	178	C704_657.3 P80 BE80B4	176
2.7	2409	3.0	652.8	55620	C904_652.8 S2 ME2SB4	190	C904_652.8 P80 BE80B4	188
2.9	2239	1.0	606.8	23175	C704_606.8 S2 ME2SB4	178	C704_606.8 P80 BE80B4	176
3.0	2131	1.9	577.4	32410	C804_577.4 S2 ME2SB4	184	C804_577.4 P80 BE80B4	182
3.1	2047	1.1	554.7	23175	C704_554.7 S2 ME2SB4	178	C704_554.7 P80 BE80B4	176
3.3	1953	2.0	529.3	32410	C804_529.3 S2 ME2SB4	184	C804_529.3 P80 BE80B4	182
3.4	1889	1.2	512.0	23175	C704_512.0 S2 ME2SB4	178	C704_512.0 P80 BE80B4	176
3.8	1705	0.9	462.0	14624	C614_462.0 S2 ME2SB4	170	C614_462.0 P80 BE80B4	168
3.8	1681	2.4	455.4	32410	C804_455.4 S2 ME2SB4	184	C804_455.4 P80 BE80B4	182
3.9	1637	1.4	443.5	23175	C704_443.5 S2 ME2SB4	178	C704_443.5 P80 BE80B4	176
4.1	1555	1.0	421.5	14624	C614_421.5 S2 ME2SB4	170	C614_421.5 P80 BE80B4	168
4.2	1541	2.6	417.5	32410	C804_417.5 S2 ME2SB4	184	C804_417.5 P80 BE80B4	182
4.3	1511	1.5	409.4	23175	C704_409.4 S2 ME2SB4	178	C704_409.4 P80 BE80B4	176
4.7	1366	1.2	370.1	14624	C614_370.1 S2 ME2SB4	170	C614_370.1 P80 BE80B4	168
4.8	1346	3.0	364.7	32410	C804_364.7 S2 ME2SB4	184	C804_364.7 P80 BE80B4	182
5.1	1271	1.8	344.3	23175	C704_344.3 S2 ME2SB4	178	C704_344.3 P80 BE80B4	176
5.2	1246	1.3	337.7	14624	C614_337.7 S2 ME2SB4	170	C614_337.7 P80 BE80B4	168
5.5	1173	2.0	317.9	23175	C704_317.9 S2 ME2SB4	178	C704_317.9 P80 BE80B4	176
5.8	1113	1.4	301.7	14624	C614_301.7 S2 ME2SB4	170	C614_301.7 P80 BE80B4	168
5.9	1099	0.9	297.8	9120	C514_297.8 S2 ME2SB4	162	C514_297.8 P80 BE80B4	160
6.3	1016	1.6	275.3	14624	C614_275.3 S2 ME2SB4	170	C614_275.3 P80 BE80B4	168
6.4	1005	2.3	272.2	23175	C704_272.2 S2 ME2SB4	178	C704_272.2 P80 BE80B4	176
6.6	973	1.0	263.8	9120	C514_263.8 S2 ME2SB4	162	C514_263.8 P80 BE80B4	160
6.9	927	2.5	251.3	23175	C704_251.3 S2 ME2SB4	178	C704_251.3 P80 BE80B4	176
7.2	889	1.1	240.9	9120	C514_240.9 S2 ME2SB4	162	C514_240.9 P80 BE80B4	160
7.3	913	2.5	239.3	23175	C703_239.3 S2 ME2SB4	178	C703_239.3 P80 BE80B4	176
7.3	879	1.8	238.3	14624	C614_238.3 S2 ME2SB4	170	C614_238.3 P80 BE80B4	168
7.9	842	2.7	220.9	23175	C703_220.9 S2 ME2SB4	178	C703_220.9 P80 BE80B4	176
8.0	802	2.0	217.4	14624	C614_217.4 S2 ME2SB4	170	C614_217.4 P80 BE80B4	168
8.1	826	1.2	216.7	9120	C513_216.7 S2 ME2SB4	162	C513_216.7 P80 BE80B4	160
8.8	754	1.3	197.9	9120	C513_197.9 S2 ME2SB4	162	C513_197.9 P80 BE80B4	160
8.9	722	2.2	195.8	14624	C613_195.8 S2 ME2SB4	170	C613_195.8 P80 BE80B4	168
9.8	659	2.4	178.6	14624	C613_178.6 S2 ME2SB4	170	C613_178.6 P80 BE80B4	168
9.9	670	1.5	175.8	9120	C513_175.8 S2 ME2SB4	162	C513_175.8 P80 BE80B4	160
10.6	607	2.6	164.5	14624	C613_164.5 S2 ME2SB4	170	C613_164.5 P80 BE80B4	168
10.6	626	1.0	164.1	6370	C413_164.1 S2 ME2SB4	154	C413_164.1 P80 BE80B4	152
10.9	612	1.6	160.5	9120	C513_160.5 S2 ME2SB4	162	C513_160.5 P80 BE80B4	160
11.6	554	2.9	150.0	14624	C613_150.0 S2 ME2SB4	170	C613_150.0 P80 BE80B4	168
11.8	562	1.8	147.4	9120	C513_147.4 S2 ME2SB4	162	C513_147.4 P80 BE80B4	160
12.0	555	1.1	145.6	6370	C413_145.6 S2 ME2SB4	154	C413_145.6 P80 BE80B4	152
13.0	513	1.9	134.6	9120	C513_134.6 S2 ME2SB4	162	C513_134.6 P80 BE80B4	160
13.1	507	1.2	132.9	6370	C413_132.9 S2 ME2SB4	154	C413_132.9 P80 BE80B4	152
13.9	480	0.9	125.8	5941	C363_125.8 S2 ME2SB4	146	C363_125.8 P80 BE80B4	144
14.0	474	2.1	124.4	9120	C513_124.4 S2 ME2SB4	162	C513_124.4 P80 BE80B4	160
14.5	460	1.3	120.6	6370	C413_120.6 S2 ME2SB4	154	C413_120.6 P80 BE80B4	152
15.4	433	2.3	113.6	9120	C513_113.6 S2 ME2SB4	162	C513_113.6 P80 BE80B4	160
15.6	425	1.1	111.5	5941	C363_111.5 S2 ME2SB4	146	C363_111.5 P80 BE80B4	144
15.9	420	1.4	110.1	6370	C413_110.1 S2 ME2SB4	154	C413_110.1 P80 BE80B4	152
17.1	390	1.5	102.3	6370	C413_102.3 S2 ME2SB4	154	C413_102.3 P80 BE80B4	152
17.1	390	1.2	102.2	5941	C363_102.2 S2 ME2SB4	146	C363_102.2 P80 BE80B4	144
17.1	388	2.6	101.8	9120	C513_101.8 S2 ME2SB4	162	C513_101.8 P80 BE80B4	160

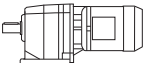





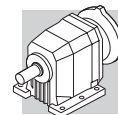


## 0.75 kW






n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
18.7	356	1.7	93.3	6370	C413_93.3 S2 ME2SB4	154	C413_93.3 P80 BE80B4	152
18.8	354	2.8	93.0	9120	C513_93.0 S2 ME2SB4	162	C513_93.0 P80 BE80B4	160
19.0	351	1.3	91.9	5941	C363_91.9 S2 ME2SB4	146	C363_91.9 P80 BE80B4	144
21.0	317	1.4	83.1	5941	C363_83.1 S2 ME2SB4	146	C363_83.1 P80 BE80B4	144
21.1	315	1.0	82.6	5044	C323_82.6 S2 ME2SB4	138	C323_82.6 P80 BE80B4	136
21.4	311	1.9	81.5	6370	C413_81.5 S2 ME2SB4	154	C413_81.5 P80 BE80B4	152
22.5	296	1.5	77.6	5941	C363_77.6 S2 ME2SB4	146	C363_77.6 P80 BE80B4	144
23.3	285	1.0	74.7	5044	C323_74.7 S2 ME2SB4	138	C323_74.7 P80 BE80B4	136
23.5	284	2.1	74.4	6370	C413_74.4 S2 ME2SB4	154	C413_74.4 P80 BE80B4	152
24.7	270	1.7	70.8	5941	C363_70.8 S2 ME2SB4	146	C363_70.8 P80 BE80B4	144
27.1	245	2.3	64.3	6370	C413_64.3 S2 ME2SB4	154	C413_64.3 P80 BE80B4	152
28.1	237	1.9	62.0	5941	C363_62.0 S2 ME2SB4	146	C363_62.0 P80 BE80B4	144
29.8	224	2.5	58.7	6370	C413_58.7 S2 ME2SB4	154	C413_58.7 P80 BE80B4	152
31	214	2.1	56.2	5941	C363_56.2 S2 ME2SB4	146	C363_56.2 P80 BE80B4	144
33	204	1.5	52.4	5044	C322_52.4 S2 ME2SB4	138	C322_52.4 P80 BE80B4	136
34	196	2.8	51.5	6370	C413_51.5 S2 ME2SB4	154	C413_51.5 P80 BE80B4	152
36	184	2.5	48.2	5941	C363_48.2 S2 ME2SB4	146	C363_48.2 P80 BE80B4	144
39	176	1.7	45.3	5044	C322_45.3 S2 ME2SB4	138	C322_45.3 P80 BE80B4	136
39	174	2.9	44.8	6370	C412_44.8 S2 ME2SB4	154	C412_44.8 P80 BE80B4	152
40	166	2.7	43.5	5941	C363_43.5 S2 ME2SB4	146	C363_43.5 P80 BE80B4	144
40	169	1.0	43.3	3482	C222_43.3 S2 ME2SB4	130	C222_43.3 P80 BE80B4	128
43	159	1.8	40.7	5044	C322_40.7 S2 ME2SB4	138	C322_40.7 P80 BE80B4	136
46	145	3.0	38.1	5941	C363_38.1 S2 ME2SB4	146	C363_38.1 P80 BE80B4	144
47	143	1.3	36.8	3428	C222_36.8 S2 ME2SB4	130	C222_36.8 P80 BE80B4	128
48	141	2.0	36.1	5044	C322_36.1 S2 ME2SB4	138	C322_36.1 P80 BE80B4	136
53	129	1.4	33.1	3364	C222_33.1 S2 ME2SB4	130	C222_33.1 P80 BE80B4	128
53	129	2.1	33.1	5044	C322_33.1 S2 ME2SB4	138	C322_33.1 P80 BE80B4	136
59	116	2.4	29.8	5044	C322_29.8 S2 ME2SB4	138	C322_29.8 P80 BE80B4	136
59	115	1.6	29.6	3318	C222_29.6 S2 ME2SB4	130	C222_29.6 P80 BE80B4	128
64	106	1.7	27.2	3290	C222_27.2 S2 ME2SB4	130	C222_27.2 P80 BE80B4	128
65	105	2.6	26.9	5044	C322_26.9 S2 ME2SB4	138	C322_26.9 P80 BE80B4	136
69	98	2.8	25.1	5007	C322_25.1 S2 ME2SB4	138	C322_25.1 P80 BE80B4	136
72	95	1.9	24.3	3208	C222_24.3 S2 ME2SB4	130	C222_24.3 P80 BE80B4	128
81	84	2.1	21.5	3181	C222_21.5 S2 ME2SB4	130	C222_21.5 P80 BE80B4	128
85	80	0.9	20.6	1649	C122_20.6 S2 ME2SB4	122	C122_20.6 P80 BE80B4	120
87	78	2.2	20.0	3089	C222_20.0 S2 ME2SB4	130	C222_20.0 P80 BE80B4	128
95	72	1.0	18.4	1594	C122_18.4 S2 ME2SB4	122	C122_18.4 P80 BE80B4	120
96	71	2.4	18.1	3062	C222_18.1 S2 ME2SB4	130	C222_18.1 P80 BE80B4	128
102	67	1.0	17.2	1594	C122_17.2 S2 ME2SB4	122	C122_17.2 P80 BE80B4	120
110	62	2.6	15.8	2934	C222_15.8 S2 ME2SB4	130	C222_15.8 P80 BE80B4	128
113	60	1.1	15.4	1749	C122_15.4 S2 ME2SB4	122	C122_15.4 P80 BE80B4	120
120	57	2.7	14.5	2925	C222_14.5 S2 ME2SB4	130	C222_14.5 P80 BE80B4	128
130	52	1.2	13.4	1704	C122_13.4 S2 ME2SB4	122	C122_13.4 P80 BE80B4	120
147	46	1.3	11.9	1622	C122_11.9 S2 ME2SB4	122	C122_11.9 P80 BE80B4	120
174	39	1.5	10.1	1603	C122_10.1 S2 ME2SB4	122	C122_10.1 P80 BE80B4	120
198	34	1.6	8.8	1549	C122_8.8 S2 ME2SB4	122	C122_8.8 P80 BE80B4	120
229	30	1.7	7.6	1503	C122_7.6 S2 ME2SB4	122	C122_7.6 P80 BE80B4	120
280	24	2.0	6.2	1394	C122_6.2 S2 ME2SB4	122	C122_6.2 P80 BE80B4	120
312	22	2.1	5.6	1339	C122_5.6 S2 ME2SB4	122	C122_5.6 P80 BE80B4	120
358	19	2.3	4.9	1312	C122_4.9 S2 ME2SB4	122	C122_4.9 P80 BE80B4	120
405	17	2.5	4.3	1248	C122_4.3 S2 ME2SB4	122	C122_4.3 P80 BE80B4	120
478	14	2.7	3.7	1212	C122_3.7 S2 ME2SB4	122	C122_3.7 P80 BE80B4	120
544	12	2.9	3.2	1166	C122_3.2 S2 ME2SB4	122	C122_3.2 P80 BE80B4	120

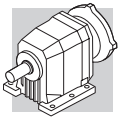
## 1.1 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
1.4	6698	1.1	1240.4	55620	C904_1240 S3 ME3SA4	190	C904_1240 P90 BE90S4	188
1.5	6140	1.2	1137.1	55620	C904_1137 S3 ME3SA4	190	C904_1137 P90 BE90S4	188
1.6	5838	2.1	1081.1	78795	C1004_1081 S3 ME3SA4	196	C1004_1081 P90 BE90S4	194
1.7	5433	1.3	1006.1	55620	C904_1006 S3 ME3SA4	190	C904_1006 P90 BE90S4	188








## 1.1 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
1.7	5421	2.2	1003.9	78795	C1004_1004 S3 ME3SA4	196	C1004_1004 P90 BE90S4	194
1.9	4980	1.4	922.3	55620	C904_922.3 S3 ME3SA4	190	C904_922.3 P90 BE90S4	188
1.9	4904	2.4	908.2	78795	C1004_908.2 S3 ME3SA4	196	C1004_908.2 P90 BE90S4	194
2.1	4557	1.6	844.0	55620	C904_844.0 S3 ME3SA4	190	C904_844.0 P90 BE90S4	188
2.1	4554	2.6	843.3	78795	C1004_843.3 S3 ME3SA4	196	C1004_843.3 P90 BE90S4	194
2.2	4230	0.9	783.4	32410	C804_783.4 S3 ME3SA4	184	C804_783.4 P90 BE90S4	182
2.2	4189	2.9	775.7	78795	C1004_775.7 S3 ME3SA4	196	C1004_775.7 P90 BE90S4	194
2.2	4178	1.7	773.6	55620	C904_773.6 S3 ME3SA4	190	C904_773.6 P90 BE90S4	188
2.4	3913	1.0	724.7	32410	C804_724.7 S3 ME3SA4	184	C804_724.7 P90 BE90S4	182
2.4	3846	1.9	712.2	55620	C904_712.2 S3 ME3SA4	190	C904_712.2 P90 BE90S4	188
2.6	3587	1.1	664.3	32410	C804_664.3 S3 ME3SA4	184	C804_664.3 P90 BE90S4	182
2.7	3525	2.0	652.8	55620	C904_652.8 S3 ME3SA4	190	C904_652.8 P90 BE90S4	188
3.0	3147	2.3	582.8	55620	C904_582.8 S3 ME3SA4	190	C904_582.8 P90 BE90S4	188
3.0	3118	1.3	577.4	32410	C804_577.4 S3 ME3SA4	184	C804_577.4 P90 BE90S4	182
3.3	2885	2.5	534.2	55620	C904_534.2 S3 ME3SA4	190	C904_534.2 P90 BE90S4	188
3.3	2858	1.4	529.3	32410	C804_529.3 S3 ME3SA4	184	C804_529.3 P90 BE90S4	182
3.8	2469	2.9	457.1	55620	C904_457.1 S3 ME3SA4	190	C904_457.1 P90 BE90S4	188
3.8	2459	1.6	455.4	32410	C804_455.4 S3 ME3SA4	184	C804_455.4 P90 BE90S4	182
3.9	2395	1.0	443.5	23175	C704_443.5 S3 ME3SA4	178	C704_443.5 P90 BE90S4	176
4.2	2254	1.8	417.5	32410	C804_417.5 S3 ME3SA4	184	C804_417.5 P90 BE90S4	182
4.3	2211	1.0	409.4	23175	C704_409.4 S3 ME3SA4	178	C704_409.4 P90 BE90S4	176
4.8	1969	2.0	364.7	32410	C804_364.7 S3 ME3SA4	184	C804_364.7 P90 BE90S4	182
5.1	1859	1.2	344.3	23175	C704_344.3 S3 ME3SA4	178	C704_344.3 P90 BE90S4	176
5.2	1805	2.2	334.3	32410	C804_334.3 S3 ME3SA4	184	C804_334.3 P90 BE90S4	182
5.5	1716	1.3	317.9	23175	C704_317.9 S3 ME3SA4	178	C704_317.9 P90 BE90S4	176
5.8	1629	1.0	301.7	14624	C614_301.7 S3 ME3SA4	170	C614_301.7 P90 BE90S4	168
6.1	1543	2.6	285.7	32410	C804_285.7 S3 ME3SA4	184	C804_285.7 P90 BE90S4	182
6.3	1486	1.1	275.3	14624	C614_275.3 S3 ME3SA4	170	C614_275.3 P90 BE90S4	168
6.4	1470	1.6	272.2	23175	C704_272.2 S3 ME3SA4	178	C704_272.2 P90 BE90S4	176
6.6	1414	2.8	261.9	32410	C804_261.9 S3 ME3SA4	184	C804_261.9 P90 BE90S4	182
6.9	1357	1.7	251.3	23175	C704_251.3 S3 ME3SA4	178	C704_251.3 P90 BE90S4	176
7.3	1335	1.7	239.3	23175	C703_239.3 S3 ME3SA4	178	C703_239.3 P90 BE90S4	176
7.3	1287	1.2	238.3	14624	C614_238.3 S3 ME3SA4	170	C614_238.3 P90 BE90S4	168
7.9	1233	1.8	220.9	23175	C703_220.9 S3 ME3SA4	178	C703_220.9 P90 BE90S4	176
8.0	1174	1.4	217.4	14624	C614_217.4 S3 ME3SA4	170	C614_217.4 P90 BE90S4	168
8.8	1104	0.9	197.9	9120	C513_197.9 S3 ME3SA4	162	C513_197.9 P90 BE90S4	160
8.9	1057	1.5	195.8	14624	C613_195.8 S3 ME3SA4	170	C613_195.8 P90 BE90S4	168
9.0	1083	2.1	194.1	23175	C703_194.1 S3 ME3SA4	178	C703_194.1 P90 BE90S4	176
9.7	1000	2.3	179.2	23175	C703_179.2 S3 ME3SA4	178	C703_179.2 P90 BE90S4	176
9.7	964	1.7	178.6	14624	C613_178.6 S3 ME3SA4	170	C613_178.6 P90 BE90S4	168
9.9	981	1.0	175.8	9120	C513_175.8 S3 ME3SA4	162	C513_175.8 P90 BE90S4	160
10.6	888	1.8	164.5	14624	C613_164.5 S3 ME3SA4	170	C613_164.5 P90 BE90S4	168
10.7	909	2.5	162.8	23175	C703_162.8 S3 ME3SA4	178	C703_162.8 P90 BE90S4	176
10.8	896	1.1	160.5	9120	C513_160.5 S3 ME3SA4	162	C513_160.5 P90 BE90S4	160
11.6	839	2.7	150.3	23175	C703_150.3 S3 ME3SA4	178	C703_150.3 P90 BE90S4	176
11.6	810	2.0	150.0	14624	C613_150.0 S3 ME3SA4	170	C613_150.0 P90 BE90S4	168
11.8	823	1.2	147.4	9120	C513_147.4 S3 ME3SA4	162	C513_147.4 P90 BE90S4	160
12.4	759	2.1	140.5	14624	C613_140.5 S3 ME3SA4	170	C613_140.5 P90 BE90S4	168
12.7	767	3.0	137.4	23175	C703_137.4 S3 ME3SA4	178	C703_137.4 P90 BE90S4	176
12.9	751	1.3	134.6	9120	C513_134.6 S3 ME3SA4	162	C513_134.6 P90 BE90S4	160
13.6	692	2.3	128.1	14624	C613_128.1 S3 ME3SA4	170	C613_128.1 P90 BE90S4	168
14.0	694	1.4	124.4	9120	C513_124.4 S3 ME3SA4	162	C513_124.4 P90 BE90S4	160
15.3	613	2.6	113.6	14624	C613_113.6 S3 ME3SA4	170	C613_113.6 P90 BE90S4	168
15.3	634	1.6	113.6	9120	C513_113.6 S3 ME3SA4	162	C513_113.6 P90 BE90S4	160
15.8	614	1.0	110.1	6370	C413_110.1 S3 ME3SA4	154	C413_110.1 P90 BE90S4	152
16.8	560	2.9	103.6	14624	C613_103.6 S3 ME3SA4	170	C613_103.6 P90 BE90S4	168
17.0	571	1.1	102.3	6370	C413_102.3 S3 ME3SA4	154	C413_102.3 P90 BE90S4	152
17.1	568	1.8	101.8	9120	C513_101.8 S3 ME3SA4	162	C513_101.8 P90 BE90S4	160
18.6	521	1.2	93.3	6370	C413_93.3 S3 ME3SA4	154	C413_93.3 P90 BE90S4	152
18.7	519	1.9	93.0	9120	C513_93.0 S3 ME3SA4	162	C513_93.0 P90 BE90S4	160
20.9	464	1.0	83.1	5713	C363_83.1 S3 ME3SA4	146	C363_83.1 P90 BE90S4	144
21.3	455	1.3	81.5	6370	C413_81.5 S3 ME3SA4	154	C413_81.5 P90 BE90S4	152
21.8	446	2.2	79.9	9120	C513_79.9 S3 ME3SA4	162	C513_79.9 P90 BE90S4	160
22.4	433	1.0	77.6	5941	C363_77.6 S3 ME3SA4	146	C363_77.6 P90 BE90S4	144
23.4	415	1.4	74.4	6370	C413_74.4 S3 ME3SA4	154	C413_74.4 P90 BE90S4	152
23.9	407	2.5	72.9	9120	C513_72.9 S3 ME3SA4	162	C513_72.9 P90 BE90S4	160



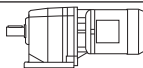



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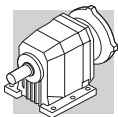
n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
24.6	395	1.1	70.8	5941	C363_70.8 S3 ME3SA4	146	C363_70.8 P90 BE90S4	144
26.9	360	2.8	64.6	9120	C513_64.6 S3 ME3SA4	162	C513_64.6 P90 BE90S4	160
27.1	359	1.6	64.3	6370	C413_64.3 S3 ME3SA4	154	C413_64.3 P90 BE90S4	152
28.1	346	1.3	62.0	5941	C363_62.0 S3 ME3SA4	146	C363_62.0 P90 BE90S4	144
29.5	329	2.9	59.0	9120	C513_59.0 S3 ME3SA4	162	C513_59.0 P90 BE90S4	160
29.7	327	1.7	58.7	6370	C413_58.7 S3 ME3SA4	154	C413_58.7 P90 BE90S4	152
31	325	2.3	57.0	9120	C512_57.0 S3 ME3SA4	162	C512_57.0 P90 BE90S4	160
31	313	1.4	56.2	5941	C363_56.2 S3 ME3SA4	146	C363_56.2 P90 BE90S4	144
33	299	1.0	52.4	5044	C322_52.4 S3 ME3SA4	138	C322_52.4 P90 BE90S4	136
34	287	1.9	51.5	6370	C413_51.5 S3 ME3SA4	154	C413_51.5 P90 BE90S4	152
34	293	2.3	51.4	9120	C512_51.4 S3 ME3SA4	162	C512_51.4 P90 BE90S4	160
36	269	1.7	48.2	5941	C363_48.2 S3 ME3SA4	146	C363_48.2 P90 BE90S4	144
36	273	2.9	47.8	9120	C512_47.8 S3 ME3SA4	162	C512_47.8 P90 BE90S4	160
37	262	2.1	47.0	6370	C413_47.0 S3 ME3SA4	154	C413_47.0 P90 BE90S4	152
38	258	1.2	45.3	5044	C322_45.3 S3 ME3SA4	138	C322_45.3 P90 BE90S4	136
39	255	2.0	44.8	6370	C412_44.8 S3 ME3SA4	154	C412_44.8 P90 BE90S4	152
40	243	1.8	43.5	5941	C363_43.5 S3 ME3SA4	146	C363_43.5 P90 BE90S4	144
40	246	3.0	43.1	9120	C512_43.1 S3 ME3SA4	162	C512_43.1 P90 BE90S4	160
43	232	1.2	40.7	5044	C322_40.7 S3 ME3SA4	138	C322_40.7 P90 BE90S4	136
43	225	2.5	40.3	6370	C413_40.3 S3 ME3SA4	154	C413_40.3 P90 BE90S4	152
46	212	2.0	38.1	5941	C363_38.1 S3 ME3SA4	146	C363_38.1 P90 BE90S4	144
47	211	2.2	37.1	6370	C412_37.1 S3 ME3SA4	154	C412_37.1 P90 BE90S4	152
47	205	2.7	36.8	6370	C413_36.8 S3 ME3SA4	154	C413_36.8 P90 BE90S4	152
48	206	1.4	36.1	5044	C322_36.1 S3 ME3SA4	138	C322_36.1 P90 BE90S4	136
50	193	2.3	34.6	5758	C363_34.6 S3 ME3SA4	146	C363_34.6 P90 BE90S4	144
52	190	2.4	33.4	6370	C412_33.4 S3 ME3SA4	154	C412_33.4 P90 BE90S4	152
53	189	1.0	33.1	2797	C222_33.1 S3 ME3SA4	130	C222_33.1 P90 BE90S4	128
53	189	1.5	33.1	4970	C322_33.1 S3 ME3SA4	138	C322_33.1 P90 BE90S4	136
55	179	2.6	31.4	6370	C412_31.4 S3 ME3SA4	154	C412_31.4 P90 BE90S4	152
58	170	1.6	29.8	4915	C322_29.8 S3 ME3SA4	138	C322_29.8 P90 BE90S4	136
59	169	1.1	29.6	2916	C222_29.6 S3 ME3SA4	130	C222_29.6 P90 BE90S4	128
61	160	2.8	28.7	5658	C363_28.7 S3 ME3SA4	146	C363_28.7 P90 BE90S4	144
61	161	2.9	28.3	6370	C412_28.3 S3 ME3SA4	154	C412_28.3 P90 BE90S4	152
64	155	1.2	27.2	2888	C222_27.2 S3 ME3SA4	130	C222_27.2 P90 BE90S4	128
65	153	1.8	26.9	4787	C322_26.9 S3 ME3SA4	138	C322_26.9 P90 BE90S4	136
69	143	1.9	25.1	4750	C322_25.1 S3 ME3SA4	138	C322_25.1 P90 BE90S4	136
72	138	1.3	24.3	2879	C222_24.3 S3 ME3SA4	130	C222_24.3 P90 BE90S4	128
76	131	2.1	22.9	4631	C322_22.9 S3 ME3SA4	138	C322_22.9 P90 BE90S4	136
81	122	1.5	21.5	2852	C222_21.5 S3 ME3SA4	130	C222_21.5 P90 BE90S4	128
87	114	2.4	20.1	4512	C322_20.1 S3 ME3SA4	138	C322_20.1 P90 BE90S4	136
87	114	1.5	20.0	2815	C222_20.0 S3 ME3SA4	130	C222_20.0 P90 BE90S4	128
96	104	2.4	18.2	4365	C322_18.2 S3 ME3SA4	138	C322_18.2 P90 BE90S4	136
96	103	1.6	18.1	2760	C222_18.1 S3 ME3SA4	130	C222_18.1 P90 BE90S4	128
110	90	1.8	15.8	2715	C222_15.8 S3 ME3SA4	130	C222_15.8 P90 BE90S4	128
112	89	2.8	15.6	4246	C322_15.6 S3 ME3SA4	138	C322_15.6 P90 BE90S4	136
120	83	1.9	14.5	2687	C222_14.5 S3 ME3SA4	130	C222_14.5 P90 BE90S4	128
124	80	2.9	14.1	4108	C322_14.1 S3 ME3SA4	138	C322_14.1 P90 BE90S4	136
140	71	2.1	12.4	2596	C222_12.4 S3 ME3SA4	130	C222_12.4 P90 BE90S4	128
147	68	0.9	11.9	1458	C122_11.9 S3 ME3SA4	122	C122_11.9 P90 BE90S4	120
157	63	2.2	11.1	2559	C222_11.1 S3 ME3SA4	130	C222_11.1 P90 BE90S4	128
173	57	1.0	10.1	1275	C122_10.1 S3 ME3SA4	122	C122_10.1 P90 BE90S4	120
180	55	2.4	9.6	2468	C222_9.6 S3 ME3SA4	130	C222_9.6 P90 BE90S4	128
197	50	1.1	8.8	1421	C122_8.8 S3 ME3SA4	122	C122_8.8 P90 BE90S4	120
201	49	2.6	8.7	2404	C222_8.7 S3 ME3SA4	130	C222_8.7 P90 BE90S4	128
228	43	1.2	7.6	1412	C122_7.6 S3 ME3SA4	122	C122_7.6 P90 BE90S4	120
246	40	3.0	7.1	2294	C222_7.1 S3 ME3SA4	130	C222_7.1 P90 BE90S4	128
279	36	1.4	6.2	1111	C122_6.2 S3 ME3SA4	122	C122_6.2 P90 BE90S4	120
286	35	2.8	6.1	2175	C222_6.1 S3 ME3SA4	130	C222_6.1 P90 BE90S4	128
311	32	1.5	5.6	1157	C122_5.6 S3 ME3SA4	122	C122_5.6 P90 BE90S4	120
311	32	2.9	5.6	2148	C222_5.6 S3 ME3SA4	130	C222_5.6 P90 BE90S4	128
357	28	1.6	4.9	1248	C122_4.9 S3 ME3SA4	122	C122_4.9 P90 BE90S4	120
404	25	1.7	4.3	1203	C122_4.3 S3 ME3SA4	122	C122_4.3 P90 BE90S4	120
477	21	1.9	3.7	1166	C122_3.7 S3 ME3SA4	122	C122_3.7 P90 BE90S4	120
542	18	2.0	3.2	1121	C122_3.2 S3 ME3SA4	122	C122_3.2 P90 BE90S4	120
629	16	2.2	2.8	1084	C122_2.8 S3 ME3SA4	122	C122_2.8 P90 BE90S4	120










## 1.5 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC	
1.6	7979	1.5	1081.1	78795	C1004_1081 S3 ME3SB4	196	C1004_1081 P90 BE90LA4	194
1.7	7425	1.0	1006.1	55620	C904_1006 S3 ME3SB4	190	C904_1006 P90 BE90LA4	188
1.7	7409	1.6	1003.9	78795	C1004_1004 S3 ME3SB4	196	C1004_1004 P90 BE90LA4	194
1.9	6807	1.1	922.3	55620	C904_922.3 S3 ME3SB4	190	C904_922.3 P90 BE90LA4	188
1.9	6703	1.8	908.2	78795	C1004_908.2 S3 ME3SB4	196	C1004_908.2 P90 BE90LA4	194
2.1	6228	1.2	844.0	55620	C904_844.0 S3 ME3SB4	190	C904_844.0 P90 BE90LA4	188
2.1	6224	1.9	843.3	78795	C1004_843.3 S3 ME3SB4	196	C1004_843.3 P90 BE90LA4	194
2.2	5725	2.1	775.7	78795	C1004_775.7 S3 ME3SB4	196	C1004_775.7 P90 BE90LA4	194
2.2	5709	1.3	773.6	55620	C904_773.6 S3 ME3SB4	190	C904_773.6 P90 BE90LA4	188
2.4	5316	2.3	720.3	78795	C1004_720.3 S3 ME3SB4	196	C1004_720.3 P90 BE90LA4	194
2.4	5256	1.4	712.2	55620	C904_712.2 S3 ME3SB4	190	C904_712.2 P90 BE90LA4	188
2.7	4818	1.5	652.8	55620	C904_652.8 S3 ME3SB4	190	C904_652.8 P90 BE90LA4	188
2.8	4630	2.6	627.4	78795	C1004_627.4 S3 ME3SB4	196	C1004_627.4 P90 BE90LA4	194
3.0	4301	1.7	582.8	55620	C904_582.8 S3 ME3SB4	190	C904_582.8 P90 BE90LA4	188
3.0	4300	2.8	582.6	78795	C1004_582.6 S3 ME3SB4	196	C1004_582.6 P90 BE90LA4	194
3.0	4261	0.9	577.4	32410	C804_577.4 S3 ME3SB4	184	C804_577.4 P90 BE90LA4	182
3.3	3943	1.8	534.2	55620	C904_534.2 S3 ME3SB4	190	C904_534.2 P90 BE90LA4	188
3.3	3906	1.0	529.3	32410	C804_529.3 S3 ME3SB4	184	C804_529.3 P90 BE90LA4	182
3.8	3374	2.1	457.1	55620	C904_457.1 S3 ME3SB4	190	C904_457.1 P90 BE90LA4	188
3.8	3361	1.2	455.4	32410	C804_455.4 S3 ME3SB4	184	C804_455.4 P90 BE90LA4	182
4.2	3093	2.3	419.0	55620	C904_419.0 S3 ME3SB4	190	C904_419.0 P90 BE90LA4	188
4.2	3081	1.3	417.5	32410	C804_417.5 S3 ME3SB4	184	C804_417.5 P90 BE90LA4	182
4.7	2729	2.6	369.8	55620	C904_369.8 S3 ME3SB4	190	C904_369.8 P90 BE90LA4	188
4.8	2691	1.5	364.7	32410	C804_364.7 S3 ME3SB4	184	C804_364.7 P90 BE90LA4	182
5.1	2541	0.9	344.3	23175	C704_344.3 S3 ME3SB4	178	C704_344.3 P90 BE90LA4	176
5.1	2501	2.9	339.0	55620	C904_339.0 S3 ME3SB4	190	C904_339.0 P90 BE90LA4	188
5.2	2467	1.6	334.3	32410	C804_334.3 S3 ME3SB4	184	C804_334.3 P90 BE90LA4	182
5.5	2346	1.0	317.9	23175	C704_317.9 S3 ME3SB4	178	C704_317.9 P90 BE90LA4	176
6.1	2108	1.9	285.7	32410	C804_285.7 S3 ME3SB4	184	C804_285.7 P90 BE90LA4	182
6.4	2009	1.1	272.2	23175	C704_272.2 S3 ME3SB4	178	C704_272.2 P90 BE90LA4	176
6.6	1932	2.1	261.9	32410	C804_261.9 S3 ME3SB4	184	C804_261.9 P90 BE90LA4	182
6.9	1854	1.2	251.3	23175	C704_251.3 S3 ME3SB4	178	C704_251.3 P90 BE90LA4	176
7.3	1825	1.3	239.3	23175	C703_239.3 S3 ME3SB4	178	C703_239.3 P90 BE90LA4	176
7.3	1759	0.9	238.3	14624	C614_238.3 S3 ME3SB4	170	C614_238.3 P90 BE90LA4	168
7.9	1685	1.3	220.9	23175	C703_220.9 S3 ME3SB4	178	C703_220.9 P90 BE90LA4	176
8.0	1604	1.0	217.4	14624	C614_217.4 S3 ME3SB4	170	C614_217.4 P90 BE90LA4	168
8.1	1646	2.4	215.8	32410	C803_215.8 S3 ME3SB4	184	C803_215.8 P90 BE90LA4	182
8.8	1509	2.7	197.9	32410	C803_197.9 S3 ME3SB4	184	C803_197.9 P90 BE90LA4	182
8.9	1445	1.1	195.8	14624	C613_195.8 S3 ME3SB4	170	C613_195.8 P90 BE90LA4	168
9.0	1480	1.6	194.1	23175	C703_194.1 S3 ME3SB4	178	C703_194.1 P90 BE90LA4	176
9.4	1406	2.8	184.4	32410	C803_184.4 S3 ME3SB4	184	C803_184.4 P90 BE90LA4	182
9.7	1366	1.7	179.2	23175	C703_179.2 S3 ME3SB4	178	C703_179.2 P90 BE90LA4	176
9.7	1318	1.2	178.6	14624	C613_178.6 S3 ME3SB4	170	C613_178.6 P90 BE90LA4	168
10.6	1214	1.3	164.5	14624	C613_164.5 S3 ME3SB4	170	C613_164.5 P90 BE90LA4	168
10.7	1242	1.9	162.8	23175	C703_162.8 S3 ME3SB4	178	C703_162.8 P90 BE90LA4	176
11.6	1146	2.0	150.3	23175	C703_150.3 S3 ME3SB4	178	C703_150.3 P90 BE90LA4	176
11.6	1107	1.4	150.0	14624	C613_150.0 S3 ME3SB4	170	C613_150.0 P90 BE90LA4	168
12.4	1037	1.5	140.5	14624	C613_140.5 S3 ME3SB4	170	C613_140.5 P90 BE90LA4	168
12.7	1048	2.2	137.4	23175	C703_137.4 S3 ME3SB4	178	C703_137.4 P90 BE90LA4	176
12.9	1027	1.0	134.6	9120	C513_134.6 S3 ME3SB4	162	C513_134.6 P90 BE90LA4	160
13.6	946	1.7	128.1	14624	C613_128.1 S3 ME3SB4	170	C613_128.1 P90 BE90LA4	168
13.7	967	2.4	126.8	23175	C703_126.8 S3 ME3SB4	178	C703_126.8 P90 BE90LA4	176
14.0	949	1.1	124.4	9120	C513_124.4 S3 ME3SB4	162	C513_124.4 P90 BE90LA4	160
15.3	838	1.9	113.6	14624	C613_113.6 S3 ME3SB4	170	C613_113.6 P90 BE90LA4	168
15.3	866	1.2	113.6	9120	C513_113.6 S3 ME3SB4	162	C513_113.6 P90 BE90LA4	160
15.5	857	2.7	112.4	23175	C703_112.4 S3 ME3SB4	178	C703_112.4 P90 BE90LA4	176
16.8	792	2.9	103.8	23175	C703_103.8 S3 ME3SB4	178	C703_103.8 P90 BE90LA4	176
16.8	765	2.1	103.6	14624	C613_103.6 S3 ME3SB4	170	C613_103.6 P90 BE90LA4	168
17.1	776	1.3	101.8	9120	C513_101.8 S3 ME3SB4	162	C513_101.8 P90 BE90LA4	160
18.7	709	1.4	93.0	9120	C513_93.0 S3 ME3SB4	162	C513_93.0 P90 BE90LA4	160
19.1	672	2.4	91.0	14624	C613_91.0 S3 ME3SB4	170	C613_91.0 P90 BE90LA4	168
21.0	613	2.6	83.0	14624	C613_83.0 S3 ME3SB4	170	C613_83.0 P90 BE90LA4	168
21.3	622	1.0	81.5	6370	C413_81.5 S3 ME3SB4	154	C413_81.5 P90 BE90LA4	152
21.8	609	1.6	79.9	9120	C513_79.9 S3 ME3SB4	162	C513_79.9 P90 BE90LA4	160
23.4	567	1.0	74.4	6370	C413_74.4 S3 ME3SB4	154	C413_74.4 P90 BE90LA4	152
23.5	548	2.8	74.2	14624	C613_74.2 S3 ME3SB4	170	C613_74.2 P90 BE90LA4	168



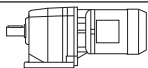



## 1.5 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
23.9	556	1.8	72.9	9120	C513_72.9 S3 ME3SB4	162	C513_72.9 P90 BE90LA4	160
25.7	500	3.0	67.7	14624	C613_67.7 S3 ME3SB4	170	C613_67.7 P90 BE90LA4	168
26.9	493	2.0	64.6	9120	C513_64.6 S3 ME3SB4	162	C513_64.6 P90 BE90LA4	160
27.1	490	1.1	64.3	6370	C413_64.3 S3 ME3SB4	154	C413_64.3 P90 BE90LA4	152
28.1	473	1.0	62.0	5484	C363_62.0 S3 ME3SB4	146	C363_62.0 P90 BE90LA4	144
29.5	450	2.2	59.0	9120	C513_59.0 S3 ME3SB4	162	C513_59.0 P90 BE90LA4	160
29.7	447	1.2	58.7	6370	C413_58.7 S3 ME3SB4	154	C413_58.7 P90 BE90LA4	152
31	444	1.7	57.0	9120	C512_57.0 S3 ME3SB4	162	C512_57.0 P90 BE90LA4	160
31	428	1.1	56.2	5804	C363_56.2 S3 ME3SB4	146	C363_56.2 P90 BE90LA4	144
34	393	1.4	51.5	6370	C413_51.5 S3 ME3SB4	154	C413_51.5 P90 BE90LA4	152
34	400	1.7	51.4	9120	C512_51.4 S3 ME3SB4	162	C512_51.4 P90 BE90LA4	160
34	390	2.4	51.2	9120	C513_51.2 S3 ME3SB4	162	C513_51.2 P90 BE90LA4	160
36	367	1.2	48.2	5749	C363_48.2 S3 ME3SB4	146	C363_48.2 P90 BE90LA4	144
36	373	2.1	47.8	9120	C512_47.8 S3 ME3SB4	162	C512_47.8 P90 BE90LA4	160
37	358	1.6	47.0	6370	C413_47.0 S3 ME3SB4	154	C413_47.0 P90 BE90LA4	152
37	356	2.6	46.7	9120	C513_46.7 S3 ME3SB4	162	C513_46.7 P90 BE90LA4	160
39	349	1.4	44.8	6370	C412_44.8 S3 ME3SB4	154	C412_44.8 P90 BE90LA4	152
40	332	1.3	43.5	5585	C363_43.5 S3 ME3SB4	146	C363_43.5 P90 BE90LA4	144
40	336	2.2	43.1	9120	C512_43.1 S3 ME3SB4	162	C512_43.1 P90 BE90LA4	160
43	317	0.9	40.7	4631	C322_40.7 S3 ME3SB4	138	C322_40.7 P90 BE90LA4	136
43	309	3.0	40.5	9120	C513_40.5 S3 ME3SB4	162	C513_40.5 P90 BE90LA4	160
43	314	2.5	40.4	9120	C512_40.4 S3 ME3SB4	162	C512_40.4 P90 BE90LA4	160
43	308	1.8	40.3	6370	C413_40.3 S3 ME3SB4	154	C413_40.3 P90 BE90LA4	152
46	290	1.5	38.1	5585	C363_38.1 S3 ME3SB4	146	C363_38.1 P90 BE90LA4	144
47	289	1.6	37.1	6370	C412_37.1 S3 ME3SB4	154	C412_37.1 P90 BE90LA4	152
47	281	2.0	36.8	6370	C413_36.8 S3 ME3SB4	154	C413_36.8 P90 BE90LA4	152
48	283	2.6	36.4	9120	C512_36.4 S3 ME3SB4	162	C512_36.4 P90 BE90LA4	160
48	281	1.0	36.1	4677	C322_36.1 S3 ME3SB4	138	C322_36.1 P90 BE90LA4	136
50	264	1.7	34.6	5438	C363_34.6 S3 ME3SB4	146	C363_34.6 P90 BE90LA4	144
52	260	1.8	33.4	6370	C412_33.4 S3 ME3SB4	154	C412_33.4 P90 BE90LA4	152
53	258	1.1	33.1	4631	C322_33.1 S3 ME3SB4	138	C322_33.1 P90 BE90LA4	136
55	245	1.9	31.4	6361	C412_31.4 S3 ME3SB4	154	C412_31.4 P90 BE90LA4	152
56	238	2.2	31.2	6188	C413_31.2 S3 ME3SB4	154	C413_31.2 P90 BE90LA4	152
58	232	1.2	29.8	4557	C322_29.8 S3 ME3SB4	138	C322_29.8 P90 BE90LA4	136
61	219	2.1	28.7	5329	C363_28.7 S3 ME3SB4	146	C363_28.7 P90 BE90LA4	144
61	217	2.4	28.5	5906	C413_28.5 S3 ME3SB4	154	C413_28.5 P90 BE90LA4	152
61	221	2.1	28.3	6215	C412_28.3 S3 ME3SB4	154	C412_28.3 P90 BE90LA4	152
65	210	1.3	26.9	4484	C322_26.9 S3 ME3SB4	138	C322_26.9 P90 BE90LA4	136
66	200	2.2	26.2	5219	C363_26.2 S3 ME3SB4	146	C363_26.2 P90 BE90LA4	144
69	196	1.4	25.1	4438	C322_25.1 S3 ME3SB4	138	C322_25.1 P90 BE90LA4	136
69	195	2.4	25.0	6079	C412_25.0 S3 ME3SB4	154	C412_25.0 P90 BE90LA4	152
72	189	1.0	24.3	2422	C222_24.3 S3 ME3SB4	130	C222_24.3 P90 BE90LA4	128
76	178	1.5	22.9	4356	C322_22.9 S3 ME3SB4	138	C322_22.9 P90 BE90LA4	136
77	176	2.6	22.6	5924	C412_22.6 S3 ME3SB4	154	C412_22.6 P90 BE90LA4	152
79	169	2.5	22.1	5054	C363_22.1 S3 ME3SB4	146	C363_22.1 P90 BE90LA4	144
81	167	1.1	21.5	2376	C222_21.5 S3 ME3SB4	130	C222_21.5 P90 BE90LA4	128
87	156	1.7	20.1	4264	C322_20.1 S3 ME3SB4	138	C322_20.1 P90 BE90LA4	136
87	156	1.1	20.0	2504	C222_20.0 S3 ME3SB4	130	C222_20.0 P90 BE90LA4	128
88	154	2.9	19.8	5760	C412_19.8 S3 ME3SB4	154	C412_19.8 P90 BE90LA4	152
92	148	2.6	19.0	4872	C362_19.0 S3 ME3SB4	146	C362_19.0 P90 BE90LA4	144
96	142	1.8	18.2	4145	C322_18.2 S3 ME3SB4	138	C322_18.2 P90 BE90LA4	136
96	141	1.2	18.1	2468	C222_18.1 S3 ME3SB4	130	C222_18.1 P90 BE90LA4	128
101	134	2.8	17.2	4698	C362_17.2 S3 ME3SB4	146	C362_17.2 P90 BE90LA4	144
110	123	1.3	15.8	2468	C222_15.8 S3 ME3SB4	130	C222_15.8 P90 BE90LA4	128
112	121	2.0	15.6	4044	C322_15.6 S3 ME3SB4	138	C322_15.6 P90 BE90LA4	136
120	113	1.4	14.5	2468	C222_14.5 S3 ME3SB4	130	C222_14.5 P90 BE90LA4	128
124	110	2.1	14.1	3925	C322_14.1 S3 ME3SB4	138	C322_14.1 P90 BE90LA4	136
140	97	1.5	12.4	2404	C222_12.4 S3 ME3SB4	130	C222_12.4 P90 BE90LA4	128
141	96	2.3	12.3	3833	C322_12.3 S3 ME3SB4	138	C322_12.3 P90 BE90LA4	136
155	87	2.4	11.2	3714	C322_11.2 S3 ME3SB4	138	C322_11.2 P90 BE90LA4	136
157	86	1.6	11.1	2376	C222_11.1 S3 ME3SB4	130	C222_11.1 P90 BE90LA4	128
180	75	1.8	9.6	2312	C222_9.6 S3 ME3SB4	130	C222_9.6 P90 BE90LA4	128
187	72	2.8	9.3	3576	C322_9.3 S3 ME3SB4	138	C322_9.3 P90 BE90LA4	136
201	67	1.9	8.7	2258	C222_8.7 S3 ME3SB4	130	C222_8.7 P90 BE90LA4	128
205	66	2.9	8.5	3475	C322_8.5 S3 ME3SB4	138	C322_8.5 P90 BE90LA4	136
246	55	2.2	7.1	2175	C222_7.1 S3 ME3SB4	130	C222_7.1 P90 BE90LA4	128

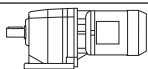





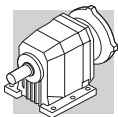


## 1.5 kW

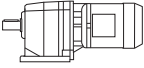



n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
279	49	1.0	6.2	547	C122_6.2 S3 ME3SB4	122	C122_6.2 P90 BE90LA4	120
286	47	2.0	6.1	2057	C222_6.1 S3 ME3SB4	130	C222_6.1 P90 BE90LA4	128
311	44	1.1	5.6	656	C122_5.6 S3 ME3SB4	122	C122_5.6 P90 BE90LA4	120
311	44	2.2	5.6	2011	C222_5.6 S3 ME3SB4	130	C222_5.6 P90 BE90LA4	128
357	38	1.2	4.9	765	C122_4.9 S3 ME3SB4	122	C122_4.9 P90 BE90LA4	120
365	37	2.5	4.8	1956	C222_4.8 S3 ME3SB4	130	C222_4.8 P90 BE90LA4	128
404	34	1.2	4.3	847	C122_4.3 S3 ME3SB4	122	C122_4.3 P90 BE90LA4	120
409	33	2.6	4.3	1919	C222_4.3 S3 ME3SB4	130	C222_4.3 P90 BE90LA4	128
469	29	2.9	3.7	1846	C222_3.7 S3 ME3SB4	130	C222_3.7 P90 BE90LA4	128
477	28	1.4	3.7	1002	C122_3.7 S3 ME3SB4	122	C122_3.7 P90 BE90LA4	120
542	25	1.5	3.2	1020	C122_3.2 S3 ME3SB4	122	C122_3.2 P90 BE90LA4	120
629	22	1.6	2.8	1039	C122_2.8 S3 ME3SB4	122	C122_2.8 P90 BE90LA4	120

## 2.2 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
1.6	11676	1.0	1081.1	78795	C1004_1081 S3 ME3LA4	196	C1004_1081 P100 BE100LA4	194
1.7	10842	1.1	1003.9	78795	C1004_1004 S3 ME3LA4	196	C1004_1004 P100 BE100LA4	194
1.9	9809	1.2	908.2	78795	C1004_908.2 S3 ME3LA4	196	C1004_908.2 P100 BE100LA4	194
2.1	9108	1.3	843.3	78795	C1004_843.3 S3 ME3LA4	196	C1004_843.3 P100 BE100LA4	194
2.2	8378	1.4	775.7	78795	C1004_775.7 S3 ME3LA4	196	C1004_775.7 P100 BE100LA4	194
2.4	7779	1.5	720.3	78795	C1004_720.3 S3 ME3LA4	196	C1004_720.3 P100 BE100LA4	194
2.5	7692	0.9	712.2	55620	C904_712.2 S3 ME3LA4	190	C904_712.2 P100 BE100LA4	188
2.7	7051	1.0	652.8	55620	C904_652.8 S3 ME3LA4	190	C904_652.8 P100 BE100LA4	188
2.8	6776	1.8	627.4	78795	C1004_627.4 S3 ME3LA4	196	C1004_627.4 P100 BE100LA4	194
3.0	6294	1.1	582.8	55620	C904_582.8 S3 ME3LA4	190	C904_582.8 P100 BE100LA4	188
3.0	6292	1.9	582.6	78795	C1004_582.6 S3 ME3LA4	196	C1004_582.6 P100 BE100LA4	194
3.3	5770	1.2	534.2	55620	C904_534.2 S3 ME3LA4	190	C904_534.2 P100 BE100LA4	188
3.5	5428	2.2	502.6	78795	C1004_502.6 S3 ME3LA4	196	C1004_502.6 P100 BE100LA4	194
3.7	5041	2.4	466.7	78795	C1004_466.7 S3 ME3LA4	196	C1004_466.7 P100 BE100LA4	194
3.8	4937	1.5	457.1	55620	C904_457.1 S3 ME3LA4	190	C904_457.1 P100 BE100LA4	188
4.2	4526	1.6	419.0	55620	C904_419.0 S3 ME3LA4	190	C904_419.0 P100 BE100LA4	188
4.3	4425	2.7	409.8	78795	C1004_409.8 S3 ME3LA4	196	C1004_409.8 P100 BE100LA4	194
4.6	4109	2.9	380.5	78795	C1004_380.5 S3 ME3LA4	196	C1004_380.5 P100 BE100LA4	194
4.7	3993	1.8	369.8	55620	C904_369.8 S3 ME3LA4	190	C904_369.8 P100 BE100LA4	188
4.8	3938	1.0	364.7	32410	C804_364.7 S3 ME3LA4	184	C804_364.7 P100 BE100LA4	182
5.1	3661	2.0	339.0	55620	C904_339.0 S3 ME3LA4	190	C904_339.0 P100 BE100LA4	188
5.2	3610	1.1	334.3	32410	C804_334.3 S3 ME3LA4	184	C804_334.3 P100 BE100LA4	182
6.0	3163	2.3	292.9	55620	C904_292.9 S3 ME3LA4	190	C904_292.9 P100 BE100LA4	188
6.1	3085	1.3	285.7	32410	C804_285.7 S3 ME3LA4	184	C804_285.7 P100 BE100LA4	182
6.5	2900	2.5	268.5	55620	C904_268.5 S3 ME3LA4	190	C904_268.5 P100 BE100LA4	188
6.7	2828	1.4	261.9	32410	C804_261.9 S3 ME3LA4	184	C804_261.9 P100 BE100LA4	182
7.5	2502	2.9	231.7	55620	C904_231.7 S3 ME3LA4	190	C904_231.7 P100 BE100LA4	188
7.9	2465	0.9	220.9	23175	C703_220.9 S3 ME3LA4	178	C703_220.9 P100 BE100LA4	176
8.1	2409	1.7	215.8	32410	C803_215.8 S3 ME3LA4	184	C803_215.8 P100 BE100LA4	182
8.8	2208	1.8	197.9	32410	C803_197.9 S3 ME3LA4	184	C803_197.9 P100 BE100LA4	182
9.0	2166	1.1	194.1	23175	C703_194.1 S3 ME3LA4	178	C703_194.1 P100 BE100LA4	176
9.5	2057	1.9	184.4	32410	C803_184.4 S3 ME3LA4	184	C803_184.4 P100 BE100LA4	182
9.7	2000	1.2	179.2	23175	C703_179.2 S3 ME3LA4	178	C703_179.2 P100 BE100LA4	176
10.3	1886	2.1	169.0	32410	C803_169.0 S3 ME3LA4	184	C803_169.0 P100 BE100LA4	182
10.6	1776	0.9	164.5	14624	C613_164.5 S3 ME3LA4	170	C613_164.5 P100 BE100LA4	168
10.7	1817	1.3	162.8	23175	C703_162.8 S3 ME3LA4	178	C703_162.8 P100 BE100LA4	176
11.6	1677	1.4	150.3	23175	C703_150.3 S3 ME3LA4	178	C703_150.3 P100 BE100LA4	176
11.6	1620	1.0	150.0	14624	C613_150.0 S3 ME3LA4	170	C613_150.0 P100 BE100LA4	168
11.7	1664	2.4	149.1	32410	C803_149.1 S3 ME3LA4	184	C803_149.1 P100 BE100LA4	182
12.4	1517	1.1	140.5	14624	C613_140.5 S3 ME3LA4	170	C613_140.5 P100 BE100LA4	168
12.7	1533	1.5	137.4	23175	C703_137.4 S3 ME3LA4	178	C703_137.4 P100 BE100LA4	176
12.8	1525	2.6	136.7	32410	C803_136.7 S3 ME3LA4	184	C803_136.7 P100 BE100LA4	182
13.6	1384	1.2	128.1	14624	C613_128.1 S3 ME3LA4	170	C613_128.1 P100 BE100LA4	168
13.8	1415	1.6	126.8	23175	C703_126.8 S3 ME3LA4	178	C703_126.8 P100 BE100LA4	176

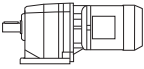





## 2.2 kW

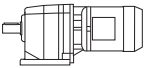



n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
15.4	1227	1.3	113.6	14624	<b>C613_113.6 S3 ME3LA4</b>	170	<b>C613_113.6 P100 BE100LA4</b>	168
15.5	1255	1.8	112.4	23175	<b>C703_112.4 S3 ME3LA4</b>	178	<b>C703_112.4 P100 BE100LA4</b>	176
16.8	1158	2.0	103.8	23175	<b>C703_103.8 S3 ME3LA4</b>	178	<b>C703_103.8 P100 BE100LA4</b>	176
16.8	1119	1.4	103.6	14624	<b>C613_103.6 S3 ME3LA4</b>	170	<b>C613_103.6 P100 BE100LA4</b>	168
18.8	1037	1.0	93.0	9120	<b>C513_93.0 S3 ME3LA4</b>	162	<b>C513_93.0 P100 BE100LA4</b>	160
19.2	983	1.6	91.0	14624	<b>C613_91.0 S3 ME3LA4</b>	170	<b>C613_91.0 P100 BE100LA4</b>	168
19.8	984	2.3	88.2	23175	<b>C703_88.2 S3 ME3LA4</b>	178	<b>C703_88.2 P100 BE100LA4</b>	176
21.0	897	1.8	83.0	14624	<b>C613_83.0 S3 ME3LA4</b>	170	<b>C613_83.0 P100 BE100LA4</b>	168
21.4	909	2.5	81.4	23175	<b>C703_81.4 S3 ME3LA4</b>	178	<b>C703_81.4 P100 BE100LA4</b>	176
21.9	891	1.1	79.9	9120	<b>C513_79.9 S3 ME3LA4</b>	162	<b>C513_79.9 P100 BE100LA4</b>	160
23.5	801	1.9	74.2	14624	<b>C613_74.2 S3 ME3LA4</b>	170	<b>C613_74.2 P100 BE100LA4</b>	168
23.9	814	1.2	72.9	9120	<b>C513_72.9 S3 ME3LA4</b>	162	<b>C513_72.9 P100 BE100LA4</b>	160
24.5	796	2.8	71.3	23175	<b>C703_71.3 S3 ME3LA4</b>	178	<b>C703_71.3 P100 BE100LA4</b>	176
25.8	731	2.0	67.7	14624	<b>C613_67.7 S3 ME3LA4</b>	170	<b>C613_67.7 P100 BE100LA4</b>	168
26.5	735	3.0	65.9	23175	<b>C703_65.9 S3 ME3LA4</b>	178	<b>C703_65.9 P100 BE100LA4</b>	176
27.0	721	1.4	64.6	9120	<b>C513_64.6 S3 ME3LA4</b>	162	<b>C513_64.6 P100 BE100LA4</b>	160
29.6	658	1.5	59.0	9120	<b>C513_59.0 S3 ME3LA4</b>	162	<b>C513_59.0 P100 BE100LA4</b>	160
29.8	633	2.3	58.6	14624	<b>C613_58.6 S3 ME3LA4</b>	170	<b>C613_58.6 P100 BE100LA4</b>	168
31	650	1.1	57.0	9120	<b>C512_57.0 S3 ME3LA4</b>	162	<b>C512_57.0 P100 BE100LA4</b>	160
33	577	2.6	53.5	14624	<b>C613_53.5 S3 ME3LA4</b>	170	<b>C613_53.5 P100 BE100LA4</b>	168
34	575	1.0	51.5	5988	<b>C413_51.5 S3 ME3LA4</b>	154	<b>C413_51.5 P100 BE100LA4</b>	152
34	586	1.1	51.4	9120	<b>C512_51.4 S3 ME3LA4</b>	162	<b>C512_51.4 P100 BE100LA4</b>	160
34	571	1.6	51.2	9120	<b>C513_51.2 S3 ME3LA4</b>	162	<b>C513_51.2 P100 BE100LA4</b>	160
36	545	1.5	47.8	9120	<b>C512_47.8 S3 ME3LA4</b>	162	<b>C512_47.8 P100 BE100LA4</b>	160
37	514	2.9	47.6	14624	<b>C613_47.6 S3 ME3LA4</b>	170	<b>C613_47.6 P100 BE100LA4</b>	168
37	524	1.1	47.0	5860	<b>C413_47.0 S3 ME3LA4</b>	154	<b>C413_47.0 P100 BE100LA4</b>	152
37	521	1.8	46.7	9120	<b>C513_46.7 S3 ME3LA4</b>	162	<b>C513_46.7 P100 BE100LA4</b>	160
39	510	1.0	44.8	5915	<b>C412_44.8 S3 ME3LA4</b>	154	<b>C412_44.8 P100 BE100LA4</b>	152
40	485	0.9	43.5	5082	<b>C363_43.5 S3 ME3LA4</b>	146	<b>C363_43.5 P100 BE100LA4</b>	144
40	492	1.5	43.1	9120	<b>C512_43.1 S3 ME3LA4</b>	162	<b>C512_43.1 P100 BE100LA4</b>	160
43	452	2.0	40.5	9120	<b>C513_40.5 S3 ME3LA4</b>	162	<b>C513_40.5 P100 BE100LA4</b>	160
43	460	1.7	40.4	9120	<b>C512_40.4 S3 ME3LA4</b>	162	<b>C512_40.4 P100 BE100LA4</b>	160
43	450	1.2	40.3	5879	<b>C413_40.3 S3 ME3LA4</b>	154	<b>C413_40.3 P100 BE100LA4</b>	152
46	425	1.0	38.1	5027	<b>C363_38.1 S3 ME3LA4</b>	146	<b>C363_38.1 P100 BE100LA4</b>	144
46	433	3.0	38.0	14624	<b>C612_38.0 S3 ME3LA4</b>	170	<b>C612_38.0 P100 BE100LA4</b>	168
47	423	1.1	37.1	5797	<b>C412_37.1 S3 ME3LA4</b>	154	<b>C412_37.1 P100 BE100LA4</b>	152
47	412	2.2	37.0	9120	<b>C513_37.0 S3 ME3LA4</b>	162	<b>C513_37.0 P100 BE100LA4</b>	160
47	411	1.4	36.8	5815	<b>C413_36.8 S3 ME3LA4</b>	154	<b>C413_36.8 P100 BE100LA4</b>	152
48	415	1.8	36.4	9120	<b>C512_36.4 S3 ME3LA4</b>	162	<b>C512_36.4 P100 BE100LA4</b>	160
50	386	1.2	34.6	4890	<b>C363_34.6 S3 ME3LA4</b>	146	<b>C363_34.6 P100 BE100LA4</b>	144
51	390	3.0	34.2	14624	<b>C612_34.2 S3 ME3LA4</b>	170	<b>C612_34.2 P100 BE100LA4</b>	168
52	381	1.2	33.4	5724	<b>C412_33.4 S3 ME3LA4</b>	154	<b>C412_33.4 P100 BE100LA4</b>	152
53	377	2.1	33.0	9120	<b>C512_33.0 S3 ME3LA4</b>	162	<b>C512_33.0 P100 BE100LA4</b>	160
56	358	1.3	31.4	5724	<b>C412_31.4 S3 ME3LA4</b>	154	<b>C412_31.4 P100 BE100LA4</b>	152
56	349	1.5	31.2	5597	<b>C413_31.2 S3 ME3LA4</b>	154	<b>C413_31.2 P100 BE100LA4</b>	152
58	335	2.7	30.1	9120	<b>C513_30.1 S3 ME3LA4</b>	162	<b>C513_30.1 P100 BE100LA4</b>	160
59	339	2.3	29.8	9120	<b>C512_29.8 S3 ME3LA4</b>	162	<b>C512_29.8 P100 BE100LA4</b>	160
61	320	1.4	28.7	4771	<b>C363_28.7 S3 ME3LA4</b>	146	<b>C363_28.7 P100 BE100LA4</b>	144
61	318	1.6	28.5	5351	<b>C413_28.5 S3 ME3LA4</b>	154	<b>C413_28.5 P100 BE100LA4</b>	152
62	323	1.4	28.3	5633	<b>C412_28.3 S3 ME3LA4</b>	154	<b>C412_28.3 P100 BE100LA4</b>	152
64	306	2.9	27.4	9120	<b>C513_27.4 S3 ME3LA4</b>	162	<b>C513_27.4 P100 BE100LA4</b>	160
67	292	1.5	26.2	4698	<b>C363_26.2 S3 ME3LA4</b>	146	<b>C363_26.2 P100 BE100LA4</b>	144
67	295	2.5	25.9	9120	<b>C512_25.9 S3 ME3LA4</b>	162	<b>C512_25.9 P100 BE100LA4</b>	160
69	286	1.0	25.1	3916	<b>C322_25.1 S3 ME3LA4</b>	138	<b>C322_25.1 P100 BE100LA4</b>	136
70	286	1.6	25.0	5569	<b>C412_25.0 S3 ME3LA4</b>	154	<b>C412_25.0 P100 BE100LA4</b>	152
75	266	2.8	23.4	9120	<b>C512_23.4 S3 ME3LA4</b>	162	<b>C512_23.4 P100 BE100LA4</b>	160
76	261	1.0	22.9	3888	<b>C322_22.9 S3 ME3LA4</b>	138	<b>C322_22.9 P100 BE100LA4</b>	136
77	257	1.8	22.6	5460	<b>C412_22.6 S3 ME3LA4</b>	154	<b>C412_22.6 P100 BE100LA4</b>	152
79	247	1.7	22.1	4625	<b>C363_22.1 S3 ME3LA4</b>	146	<b>C363_22.1 P100 BE100LA4</b>	144
87	229	1.2	20.1	3851	<b>C322_20.1 S3 ME3LA4</b>	138	<b>C322_20.1 P100 BE100LA4</b>	136
88	225	2.0	19.8	5360	<b>C412_19.8 S3 ME3LA4</b>	154	<b>C412_19.8 P100 BE100LA4</b>	152
92	217	1.8	19.0	4497	<b>C362_19.0 S3 ME3LA4</b>	146	<b>C362_19.0 P100 BE100LA4</b>	144
96	207	1.2	18.2	3778	<b>C322_18.2 S3 ME3LA4</b>	138	<b>C322_18.2 P100 BE100LA4</b>	136
98	203	2.2	17.8	5242	<b>C412_17.8 S3 ME3LA4</b>	154	<b>C412_17.8 P100 BE100LA4</b>	152
101	196	1.9	17.2	4387	<b>C362_17.2 S3 ME3LA4</b>	146	<b>C362_17.2 P100 BE100LA4</b>	144



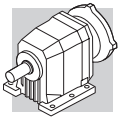
## 2.2 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
110	180	2.3	15.8	5142	C412_15.8 S3 ME3LA4	154	C412_15.8 P100 BE100LA4	152
112	178	1.4	15.6	3723	C322_15.6 S3 ME3LA4	138	C322_15.6 P100 BE100LA4	136
118	168	2.1	14.8	4305	C362_14.8 S3 ME3LA4	146	C362_14.8 P100 BE100LA4	144
120	166	0.9	14.5	2038	C222_14.5 S3 ME3LA4	130	C222_14.5 P100 BE100LA4	128
122	162	2.5	14.2	5014	C412_14.2 S3 ME3LA4	154	C412_14.2 P100 BE100LA4	152
124	160	1.4	14.1	3650	C322_14.1 S3 ME3LA4	138	C322_14.1 P100 BE100LA4	136
131	152	2.3	13.3	4195	C362_13.3 S3 ME3LA4	146	C362_13.3 P100 BE100LA4	144
141	141	1.0	12.4	2075	C222_12.4 S3 ME3LA4	130	C222_12.4 P100 BE100LA4	128
141	141	2.8	12.4	4878	C412_12.4 S3 ME3LA4	154	C412_12.4 P100 BE100LA4	152
142	141	1.6	12.3	3576	C322_12.3 S3 ME3LA4	138	C322_12.3 P100 BE100LA4	136
150	133	2.6	11.7	4104	C362_11.7 S3 ME3LA4	146	C362_11.7 P100 BE100LA4	144
156	128	1.7	11.2	3485	C322_11.2 S3 ME3LA4	138	C322_11.2 P100 BE100LA4	136
157	126	1.1	11.1	2057	C222_11.1 S3 ME3LA4	130	C222_11.1 P100 BE100LA4	128
165	121	2.9	10.6	3948	C362_10.6 S3 ME3LA4	146	C362_10.6 P100 BE100LA4	144
181	110	1.2	9.6	2057	C222_9.6 S3 ME3LA4	130	C222_9.6 P100 BE100LA4	128
188	106	1.9	9.3	3384	C322_9.3 S3 ME3LA4	138	C322_9.3 P100 BE100LA4	136
202	99	1.3	8.7	2029	C222_8.7 S3 ME3LA4	130	C222_8.7 P100 BE100LA4	128
206	97	2.0	8.5	3301	C322_8.5 S3 ME3LA4	138	C322_8.5 P100 BE100LA4	136
244	82	2.3	7.2	3191	C322_7.2 S3 ME3LA4	138	C322_7.2 P100 BE100LA4	136
246	81	1.5	7.1	1993	C222_7.1 S3 ME3LA4	130	C222_7.1 P100 BE100LA4	128
279	71	2.1	6.3	2980	C322_6.3 S3 ME3LA4	138	C322_6.3 P100 BE100LA4	136
287	69	1.4	6.1	1865	C222_6.1 S3 ME3LA4	130	C222_6.1 P100 BE100LA4	128
298	67	2.8	5.8	3391	C362_5.8 S3 ME3LA4	146	C362_5.8 P100 BE100LA4	144
309	64	2.2	5.7	2916	C322_5.7 S3 ME3LA4	138	C322_5.7 P100 BE100LA4	136
312	64	1.5	5.6	1874	C222_5.6 S3 ME3LA4	130	C222_5.6 P100 BE100LA4	128
352	56	2.5	5.0	2843	C322_5.0 S3 ME3LA4	138	C322_5.0 P100 BE100LA4	136
366	54	1.7	4.8	1801	C222_4.8 S3 ME3LA4	130	C222_4.8 P100 BE100LA4	128
388	51	2.7	4.5	2751	C322_4.5 S3 ME3LA4	138	C322_4.5 P100 BE100LA4	136
410	49	1.8	4.3	1801	C222_4.3 S3 ME3LA4	130	C222_4.3 P100 BE100LA4	128
471	42	2.0	3.7	1727	C222_3.7 S3 ME3LA4	130	C222_3.7 P100 BE100LA4	128
478	42	0.9	3.7	647	C122_3.7 S3 ME3LA4	122	C122_3.7 P100 BE100LA4	120
525	38	2.1	3.3	1727	C222_3.3 S3 ME3LA4	130	C222_3.3 P100 BE100LA4	128
544	37	1.0	3.2	528	C122_3.2 S3 ME3LA4	122	C122_3.2 P100 BE100LA4	120
631	32	1.1	2.8	629	C122_2.8 S3 ME3LA4	122	C122_2.8 P100 BE100LA4	120
641	31	2.4	2.7	1618	C222_2.7 S3 ME3LA4	130	C222_2.7 P100 BE100LA4	128





## 3 kW

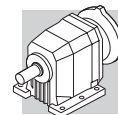
n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
2.1	12523	1.0	843.3	78795	C1004_843.3 S3 ME3LB4	196	C1004_843.3 P100 BE100LB4	194
2.2	11519	1.0	775.7	78795	C1004_775.7 S3 ME3LB4	196	C1004_775.7 P100 BE100LB4	194
2.4	10696	1.1	720.3	78795	C1004_720.3 S3 ME3LB4	196	C1004_720.3 P100 BE100LB4	194
2.8	9317	1.3	627.4	78795	C1004_627.4 S3 ME3LB4	196	C1004_627.4 P100 BE100LB4	194
3.0	8651	1.4	582.6	78795	C1004_582.6 S3 ME3LB4	196	C1004_582.6 P100 BE100LB4	194
3.2	7933	0.9	534.2	55620	C904_534.2 S3 ME3LB4	190	C904_534.2 P100 BE100LB4	188
3.5	7464	1.6	502.6	78795	C1004_502.6 S3 ME3LB4	196	C1004_502.6 P100 BE100LB4	194
3.7	6931	1.7	466.7	78795	C1004_466.7 S3 ME3LB4	196	C1004_466.7 P100 BE100LB4	194
3.8	6789	1.1	457.1	55620	C904_457.1 S3 ME3LB4	190	C904_457.1 P100 BE100LB4	188
4.1	6223	1.2	419.0	55620	C904_419.0 S3 ME3LB4	190	C904_419.0 P100 BE100LB4	188
4.2	6085	2.0	409.8	78795	C1004_409.8 S3 ME3LB4	196	C1004_409.8 P100 BE100LB4	194
4.6	5650	2.1	380.5	78795	C1004_380.5 S3 ME3LB4	196	C1004_380.5 P100 BE100LB4	194
4.7	5491	1.3	369.8	55620	C904_369.8 S3 ME3LB4	190	C904_369.8 P100 BE100LB4	188
5.1	5033	1.4	339.0	55620	C904_339.0 S3 ME3LB4	190	C904_339.0 P100 BE100LB4	188
5.4	4806	2.5	323.6	78795	C1004_323.6 S3 ME3LB4	196	C1004_323.6 P100 BE100LB4	194
5.8	4463	2.7	300.5	78795	C1004_300.5 S3 ME3LB4	196	C1004_300.5 P100 BE100LB4	194
5.9	4350	1.7	292.9	55620	C904_292.9 S3 ME3LB4	190	C904_292.9 P100 BE100LB4	188
6.1	4242	0.9	285.7	32410	C804_285.7 S3 ME3LB4	184	C804_285.7 P100 BE100LB4	182
6.5	3987	1.8	268.5	55620	C904_268.5 S3 ME3LB4	190	C904_268.5 P100 BE100LB4	188
6.6	3889	1.0	261.9	32410	C804_261.9 S3 ME3LB4	184	C804_261.9 P100 BE100LB4	182



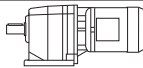





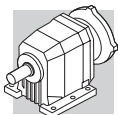
### 3 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
7.5	3441	2.1	231.7	55620	C904_231.7 S3 ME3LB4	190	C904_231.7 P100 BE100LB4	188
8.0	3312	1.2	215.8	32410	C803_215.8 S3 ME3LB4	184	C803_215.8 P100 BE100LB4	182
8.2	3154	2.3	212.4	55620	C904_212.4 S3 ME3LB4	190	C904_212.4 P100 BE100LB4	188
8.8	3036	1.3	197.9	32410	C803_197.9 S3 ME3LB4	184	C803_197.9 P100 BE100LB4	182
9.4	2829	1.4	184.4	32410	C803_184.4 S3 ME3LB4	184	C803_184.4 P100 BE100LB4	182
10.1	2641	2.7	172.1	55620	C903_172.1 S3 ME3LB4	190	C903_172.1 P100 BE100LB4	188
10.3	2593	1.5	169.0	32410	C803_169.0 S3 ME3LB4	184	C803_169.0 P100 BE100LB4	182
10.7	2499	0.9	162.8	23175	C703_162.8 S3 ME3LB4	178	C703_162.8 P100 BE100LB4	176
11.0	2421	2.9	157.8	55620	C903_157.8 S3 ME3LB4	190	C903_157.8 P100 BE100LB4	188
11.5	2306	1.0	150.3	23175	C703_150.3 S3 ME3LB4	178	C703_150.3 P100 BE100LB4	176
11.6	2288	1.7	149.1	32410	C803_149.1 S3 ME3LB4	184	C803_149.1 P100 BE100LB4	182
12.6	2108	1.1	137.4	23175	C703_137.4 S3 ME3LB4	178	C703_137.4 P100 BE100LB4	176
12.7	2097	1.9	136.7	32410	C803_136.7 S3 ME3LB4	184	C803_136.7 P100 BE100LB4	182
13.7	1946	1.2	126.8	23175	C703_126.8 S3 ME3LB4	178	C703_126.8 P100 BE100LB4	176
14.5	1833	2.2	119.5	32410	C803_119.5 S3 ME3LB4	184	C803_119.5 P100 BE100LB4	182
15.3	1687	0.9	113.6	14624	C613_113.6 S3 ME3LB4	170	C613_113.6 P100 BE100LB4	168
15.4	1725	1.3	112.4	23175	C703_112.4 S3 ME3LB4	178	C703_112.4 P100 BE100LB4	176
15.8	1680	2.4	109.5	32410	C803_109.5 S3 ME3LB4	184	C803_109.5 P100 BE100LB4	182
16.7	1593	1.4	103.8	23175	C703_103.8 S3 ME3LB4	178	C703_103.8 P100 BE100LB4	176
16.7	1539	1.0	103.6	14624	C613_103.6 S3 ME3LB4	170	C613_103.6 P100 BE100LB4	168
17.8	1494	2.6	97.4	32410	C803_97.4 S3 ME3LB4	184	C803_97.4 P100 BE100LB4	182
19.1	1352	1.2	91.0	14624	C613_91.0 S3 ME3LB4	170	C613_91.0 P100 BE100LB4	168
19.4	1370	2.8	89.3	32410	C803_89.3 S3 ME3LB4	184	C803_89.3 P100 BE100LB4	182
19.7	1353	1.7	88.2	23175	C703_88.2 S3 ME3LB4	178	C703_88.2 P100 BE100LB4	176
20.9	1233	1.3	83.0	14624	C613_83.0 S3 ME3LB4	170	C613_83.0 P100 BE100LB4	168
21.3	1249	1.8	81.4	23175	C703_81.4 S3 ME3LB4	178	C703_81.4 P100 BE100LB4	176
23.4	1102	1.4	74.2	14624	C613_74.2 S3 ME3LB4	170	C613_74.2 P100 BE100LB4	168
24.3	1095	2.0	71.3	23175	C703_71.3 S3 ME3LB4	178	C703_71.3 P100 BE100LB4	176
25.6	1005	1.5	67.7	14624	C613_67.7 S3 ME3LB4	170	C613_67.7 P100 BE100LB4	168
26.3	1011	2.2	65.9	23175	C703_65.9 S3 ME3LB4	178	C703_65.9 P100 BE100LB4	176
26.9	991	1.0	64.6	9120	C513_64.6 S3 ME3LB4	162	C513_64.6 P100 BE100LB4	160
29.4	905	1.1	59.0	9120	C513_59.0 S3 ME3LB4	162	C513_59.0 P100 BE100LB4	160
29.6	870	1.7	58.6	14624	C613_58.6 S3 ME3LB4	170	C613_58.6 P100 BE100LB4	168
31	867	2.5	56.5	23175	C703_56.5 S3 ME3LB4	178	C703_56.5 P100 BE100LB4	176
32	794	1.9	53.5	14624	C613_53.5 S3 ME3LB4	170	C613_53.5 P100 BE100LB4	168
33	800	2.7	52.2	23175	C703_52.2 S3 ME3LB4	178	C703_52.2 P100 BE100LB4	176
34	785	1.2	51.2	9120	C513_51.2 S3 ME3LB4	162	C513_51.2 P100 BE100LB4	160
36	750	1.1	47.8	9120	C512_47.8 S3 ME3LB4	162	C512_47.8 P100 BE100LB4	160
36	707	2.1	47.6	14624	C613_47.6 S3 ME3LB4	170	C613_47.6 P100 BE100LB4	168
37	717	1.3	46.7	9120	C513_46.7 S3 ME3LB4	162	C513_46.7 P100 BE100LB4	160
40	645	2.3	43.4	14624	C613_43.4 S3 ME3LB4	170	C613_43.4 P100 BE100LB4	168
40	676	1.1	43.1	9120	C512_43.1 S3 ME3LB4	162	C512_43.1 P100 BE100LB4	160
43	621	1.5	40.5	9120	C513_40.5 S3 ME3LB4	162	C513_40.5 P100 BE100LB4	160
43	633	1.3	40.4	9120	C512_40.4 S3 ME3LB4	162	C512_40.4 P100 BE100LB4	160
46	596	2.1	38.0	14624	C612_38.0 S3 ME3LB4	170	C612_38.0 P100 BE100LB4	168
47	567	1.6	37.0	9120	C513_37.0 S3 ME3LB4	162	C513_37.0 P100 BE100LB4	160
47	565	1.0	36.8	5041	C413_36.8 S3 ME3LB4	154	C413_36.8 P100 BE100LB4	152
48	570	1.3	36.4	9120	C512_36.4 S3 ME3LB4	162	C512_36.4 P100 BE100LB4	160
48	537	2.7	36.1	14624	C613_36.1 S3 ME3LB4	170	C613_36.1 P100 BE100LB4	168
51	536	2.2	34.2	14624	C612_34.2 S3 ME3LB4	170	C612_34.2 P100 BE100LB4	168
53	518	1.5	33.0	9120	C512_33.0 S3 ME3LB4	162	C512_33.0 P100 BE100LB4	160
53	490	2.9	33.0	14624	C613_33.0 S3 ME3LB4	170	C613_33.0 P100 BE100LB4	168
55	493	0.9	31.4	4996	C412_31.4 S3 ME3LB4	154	C412_31.4 P100 BE100LB4	152
56	479	1.1	31.2	5051	C413_31.2 S3 ME3LB4	154	C413_31.2 P100 BE100LB4	152
57	477	2.8	30.4	14533	C612_30.4 S3 ME3LB4	170	C612_30.4 P100 BE100LB4	168
58	461	2.0	30.1	9120	C513_30.1 S3 ME3LB4	162	C513_30.1 P100 BE100LB4	160
58	467	1.7	29.8	9120	C512_29.8 S3 ME3LB4	162	C512_29.8 P100 BE100LB4	160
60	441	1.0	28.7	4204	C363_28.7 S3 ME3LB4	146	C363_28.7 P100 BE100LB4	144
61	437	1.2	28.5	4823	C413_28.5 S3 ME3LB4	154	C413_28.5 P100 BE100LB4	152
61	444	1.0	28.3	4969	C412_28.3 S3 ME3LB4	154	C412_28.3 P100 BE100LB4	152

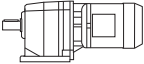





### 3 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
63	421	2.1	27.4	9120	C513_27.4 S3 ME3LB4	162	C513_27.4 P100 BE100LB4	160
66	402	1.1	26.2	4113	C363_26.2 S3 ME3LB4	146	C363_26.2 P100 BE100LB4	144
67	406	1.8	25.9	9120	C512_25.9 S3 ME3LB4	162	C512_25.9 P100 BE100LB4	160
69	393	1.2	25.0	4987	C412_25.0 S3 ME3LB4	154	C412_25.0 P100 BE100LB4	152
73	367	2.3	23.9	8783	C513_23.9 S3 ME3LB4	162	C513_23.9 P100 BE100LB4	160
74	366	2.0	23.4	9120	C512_23.4 S3 ME3LB4	162	C512_23.4 P100 BE100LB4	160
77	354	1.3	22.6	4932	C412_22.6 S3 ME3LB4	154	C412_22.6 P100 BE100LB4	152
78	340	1.3	22.1	4140	C363_22.1 S3 ME3LB4	146	C363_22.1 P100 BE100LB4	144
80	335	2.5	21.8	8846	C513_21.8 S3 ME3LB4	162	C513_21.8 P100 BE100LB4	160
83	328	2.2	21.0	9120	C512_21.0 S3 ME3LB4	162	C512_21.0 P100 BE100LB4	160
88	310	1.5	19.8	4905	C412_19.8 S3 ME3LB4	154	C412_19.8 P100 BE100LB4	152
91	298	1.3	19.0	4067	C362_19.0 S3 ME3LB4	146	C362_19.0 P100 BE100LB4	144
92	296	2.5	18.9	9120	C512_18.9 S3 ME3LB4	162	C512_18.9 P100 BE100LB4	160
98	279	1.6	17.8	4823	C412_17.8 S3 ME3LB4	154	C412_17.8 P100 BE100LB4	152
101	270	1.4	17.2	4022	C362_17.2 S3 ME3LB4	146	C362_17.2 P100 BE100LB4	144
105	260	2.8	16.6	8928	C512_16.6 S3 ME3LB4	162	C512_16.6 P100 BE100LB4	160
110	248	1.7	15.8	4768	C412_15.8 S3 ME3LB4	154	C412_15.8 P100 BE100LB4	152
111	244	1.0	15.6	3375	C322_15.6 S3 ME3LB4	138	C322_15.6 P100 BE100LB4	136
118	231	1.6	14.8	3967	C362_14.8 S3 ME3LB4	146	C362_14.8 P100 BE100LB4	144
122	223	1.8	14.2	4677	C412_14.2 S3 ME3LB4	154	C412_14.2 P100 BE100LB4	152
123	221	1.0	14.1	3347	C322_14.1 S3 ME3LB4	138	C322_14.1 P100 BE100LB4	136
130	209	1.7	13.3	3894	C362_13.3 S3 ME3LB4	146	C362_13.3 P100 BE100LB4	144
140	194	2.0	12.4	4586	C412_12.4 S3 ME3LB4	154	C412_12.4 P100 BE100LB4	152
141	193	1.2	12.3	3283	C322_12.3 S3 ME3LB4	138	C322_12.3 P100 BE100LB4	136
149	183	1.9	11.7	3839	C362_11.7 S3 ME3LB4	146	C362_11.7 P100 BE100LB4	144
155	176	1.2	11.2	3228	C322_11.2 S3 ME3LB4	138	C322_11.2 P100 BE100LB4	136
155	175	2.2	11.2	4486	C412_11.2 S3 ME3LB4	154	C412_11.2 P100 BE100LB4	152
164	166	2.1	10.6	3747	C362_10.6 S3 ME3LB4	146	C362_10.6 P100 BE100LB4	144
181	150	2.4	9.6	4368	C412_9.6 S3 ME3LB4	154	C412_9.6 P100 BE100LB4	152
187	146	1.4	9.3	3164	C322_9.3 S3 ME3LB4	138	C322_9.3 P100 BE100LB4	136
197	138	2.6	8.8	3647	C362_8.8 S3 ME3LB4	146	C362_8.8 P100 BE100LB4	144
200	136	0.9	8.7	1737	C222_8.7 S3 ME3LB4	130	C222_8.7 P100 BE100LB4	128
201	135	2.6	8.6	4186	C412_8.6 S3 ME3LB4	154	C412_8.6 P100 BE100LB4	152
204	133	1.4	8.5	3118	C322_8.5 S3 ME3LB4	138	C322_8.5 P100 BE100LB4	136
216	126	2.7	8.0	3510	C362_8.0 S3 ME3LB4	146	C362_8.0 P100 BE100LB4	144
242	112	1.6	7.2	3026	C322_7.2 S3 ME3LB4	138	C322_7.2 P100 BE100LB4	136
245	111	1.1	7.1	1773	C222_7.1 S3 ME3LB4	130	C222_7.1 P100 BE100LB4	128
246	111	3.0	7.1	4086	C412_7.1 S3 ME3LB4	154	C412_7.1 P100 BE100LB4	152
277	98	1.5	6.3	2843	C322_6.3 S3 ME3LB4	138	C322_6.3 P100 BE100LB4	136
285	95	1.0	6.1	1462	C222_6.1 S3 ME3LB4	130	C222_6.1 P100 BE100LB4	128
291	93	2.8	6.0	3722	C412_6.0 S3 ME3LB4	154	C412_6.0 P100 BE100LB4	152
297	92	2.0	5.8	3226	C362_5.8 S3 ME3LB4	146	C362_5.8 P100 BE100LB4	144
307	89	1.6	5.7	2788	C322_5.7 S3 ME3LB4	138	C322_5.7 P100 BE100LB4	136
310	88	1.1	5.6	1600	C222_5.6 S3 ME3LB4	130	C222_5.6 P100 BE100LB4	128
329	83	2.2	5.3	3089	C362_5.3 S3 ME3LB4	146	C362_5.3 P100 BE100LB4	144
350	78	1.8	5.0	2705	C322_5.0 S3 ME3LB4	138	C322_5.0 P100 BE100LB4	136
364	75	1.2	4.8	1627	C222_4.8 S3 ME3LB4	130	C222_4.8 P100 BE100LB4	128
375	72	2.6	4.6	2989	C362_4.6 S3 ME3LB4	146	C362_4.6 P100 BE100LB4	144
386	71	2.0	4.5	2641	C322_4.5 S3 ME3LB4	138	C322_4.5 P100 BE100LB4	136
407	67	1.3	4.3	1645	C222_4.3 S3 ME3LB4	130	C222_4.3 P100 BE100LB4	128
413	66	2.8	4.2	2916	C362_4.2 S3 ME3LB4	146	C362_4.2 P100 BE100LB4	144
465	59	2.4	3.7	2549	C322_3.7 S3 ME3LB4	138	C322_3.7 P100 BE100LB4	136
468	58	1.4	3.7	1590	C222_3.7 S3 ME3LB4	130	C222_3.7 P100 BE100LB4	128
509	53	2.4	3.4	2467	C322_3.4 S3 ME3LB4	138	C322_3.4 P100 BE100LB4	136
522	52	1.5	3.3	1590	C222_3.3 S3 ME3LB4	130	C222_3.3 P100 BE100LB4	128
603	45	2.6	2.9	2393	C322_2.9 S3 ME3LB4	138	C322_2.9 P100 BE100LB4	136
637	43	1.7	2.7	1517	C222_2.7 S3 ME3LB4	130	C222_2.7 P100 BE100LB4	128



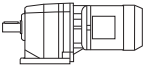




## 3.7 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
2.4	12965	0.9	720.3	78795	C1004_720.3 S4 ME4SA4	196	C1004_720.3 P112 BE112M4	194
2.8	11293	1.1	627.4	78795	C1004_627.4 S4 ME4SA4	196	C1004_627.4 P112 BE112M4	194
3.0	10487	1.1	582.6	78795	C1004_582.6 S4 ME4SA4	196	C1004_582.6 P112 BE112M4	194
3.5	9047	1.3	502.6	78795	C1004_502.6 S4 ME4SA4	196	C1004_502.6 P112 BE112M4	194
3.7	8401	1.4	466.7	78795	C1004_466.7 S4 ME4SA4	196	C1004_466.7 P112 BE112M4	194
4.2	7543	1.0	419.0	55620	C904_419.0 S4 ME4SA4	190	C904_419.0 P112 BE112M4	188
4.2	7376	1.6	409.8	78795	C1004_409.8 S4 ME4SA4	196	C1004_409.8 P112 BE112M4	194
4.6	6849	1.8	380.5	78795	C1004_380.5 S4 ME4SA4	196	C1004_380.5 P112 BE112M4	194
4.7	6656	1.1	369.8	55620	C904_369.8 S4 ME4SA4	190	C904_369.8 P112 BE112M4	188
5.1	6101	1.2	339.0	55620	C904_339.0 S4 ME4SA4	190	C904_339.0 P112 BE112M4	188
5.4	5825	2.1	323.6	78795	C1004_323.6 S4 ME4SA4	196	C1004_323.6 P112 BE112M4	194
5.8	5409	2.2	300.5	78795	C1004_300.5 S4 ME4SA4	196	C1004_300.5 P112 BE112M4	194
5.9	5272	1.4	292.9	55620	C904_292.9 S4 ME4SA4	190	C904_292.9 P112 BE112M4	188
6.5	4833	1.5	268.5	55620	C904_268.5 S4 ME4SA4	190	C904_268.5 P112 BE112M4	188
6.6	4734	2.5	263.0	78795	C1004_263.0 S4 ME4SA4	196	C1004_263.0 P112 BE112M4	194
7.1	4396	2.7	244.2	78795	C1004_244.2 S4 ME4SA4	196	C1004_244.2 P112 BE112M4	194
7.5	4170	1.7	231.7	55620	C904_231.7 S4 ME4SA4	190	C904_231.7 P112 BE112M4	188
8.1	4015	1.0	215.8	32410	C803_215.8 S4 ME4SA4	184	C803_215.8 P112 BE112M4	182
8.2	3823	1.9	212.4	55620	C904_212.4 S4 ME4SA4	190	C904_212.4 P112 BE112M4	188
8.8	3680	1.1	197.9	32410	C803_197.9 S4 ME4SA4	184	C803_197.9 P112 BE112M4	182
9.4	3429	1.2	184.4	32410	C803_184.4 S4 ME4SA4	184	C803_184.4 P112 BE112M4	182
10.1	3201	2.2	172.1	55620	C903_172.1 S4 ME4SA4	190	C903_172.1 P112 BE112M4	188
10.3	3143	1.3	169.0	32410	C803_169.0 S4 ME4SA4	184	C803_169.0 P112 BE112M4	182
11.0	2934	2.4	157.8	55620	C903_157.8 S4 ME4SA4	190	C903_157.8 P112 BE112M4	188
11.7	2773	1.4	149.1	32410	C803_149.1 S4 ME4SA4	184	C803_149.1 P112 BE112M4	182
11.9	2722	2.6	146.3	55620	C903_146.3 S4 ME4SA4	190	C903_146.3 P112 BE112M4	188
12.7	2542	1.6	136.7	32410	C803_136.7 S4 ME4SA4	184	C803_136.7 P112 BE112M4	182
13.0	2495	2.8	134.1	55620	C903_134.1 S4 ME4SA4	190	C903_134.1 P112 BE112M4	188
13.7	2359	1.0	126.8	23175	C703_126.8 S4 ME4SA4	178	C703_126.8 P112 BE112M4	176
14.6	2222	1.8	119.5	32410	C803_119.5 S4 ME4SA4	184	C803_119.5 P112 BE112M4	182
15.5	2091	1.1	112.4	23175	C703_112.4 S4 ME4SA4	178	C703_112.4 P112 BE112M4	176
15.9	2037	2.0	109.5	32410	C803_109.5 S4 ME4SA4	184	C803_109.5 P112 BE112M4	182
16.8	1931	1.2	103.8	23175	C703_103.8 S4 ME4SA4	178	C703_103.8 P112 BE112M4	176
17.9	1811	2.2	97.4	32410	C803_97.4 S4 ME4SA4	184	C803_97.4 P112 BE112M4	182
19.1	1638	1.0	91.0	14624	C613_91.0 S4 ME4SA4	170	C613_91.0 P112 BE112M4	168
19.5	1660	2.3	89.3	32410	C803_89.3 S4 ME4SA4	184	C803_89.3 P112 BE112M4	182
19.7	1640	1.4	88.2	23175	C703_88.2 S4 ME4SA4	178	C703_88.2 P112 BE112M4	176
21.0	1495	1.1	83.0	14624	C613_83.0 S4 ME4SA4	170	C613_83.0 P112 BE112M4	168
21.4	1514	1.5	81.4	23175	C703_81.4 S4 ME4SA4	178	C703_81.4 P112 BE112M4	176
22.6	1431	2.6	76.9	32410	C803_76.9 S4 ME4SA4	184	C803_76.9 P112 BE112M4	182
23.5	1336	1.1	74.2	14624	C613_74.2 S4 ME4SA4	170	C613_74.2 P112 BE112M4	168
24.4	1327	1.7	71.3	23175	C703_71.3 S4 ME4SA4	178	C703_71.3 P112 BE112M4	176
24.7	1311	2.8	70.5	32410	C803_70.5 S4 ME4SA4	184	C803_70.5 P112 BE112M4	182
25.7	1218	1.2	67.7	14624	C613_67.7 S4 ME4SA4	170	C613_67.7 P112 BE112M4	168
26.4	1225	1.8	65.9	23175	C703_65.9 S4 ME4SA4	178	C703_65.9 P112 BE112M4	176
29.7	1055	1.4	58.6	14624	C613_58.6 S4 ME4SA4	170	C613_58.6 P112 BE112M4	168
31	1051	2.0	56.5	23175	C703_56.5 S4 ME4SA4	178	C703_56.5 P112 BE112M4	176
33	962	1.5	53.5	14624	C613_53.5 S4 ME4SA4	170	C613_53.5 P112 BE112M4	168
33	970	2.2	52.2	23175	C703_52.2 S4 ME4SA4	178	C703_52.2 P112 BE112M4	176
34	952	1.0	51.2	9120	C513_51.2 S4 ME4SA4	162	C513_51.2 P112 BE112M4	160
37	857	1.7	47.6	14624	C613_47.6 S4 ME4SA4	170	C613_47.6 P112 BE112M4	168
37	869	1.1	46.7	9120	C513_46.7 S4 ME4SA4	162	C513_46.7 P112 BE112M4	160
39	831	2.6	44.7	23175	C703_44.7 S4 ME4SA4	178	C703_44.7 P112 BE112M4	176
40	782	1.9	43.4	14624	C613_43.4 S4 ME4SA4	170	C613_43.4 P112 BE112M4	168
42	767	2.8	41.3	23175	C703_41.3 S4 ME4SA4	178	C703_41.3 P112 BE112M4	176
43	753	1.2	40.5	9120	C513_40.5 S4 ME4SA4	162	C513_40.5 P112 BE112M4	160
43	767	1.0	40.4	9120	C512_40.4 S4 ME4SA4	162	C512_40.4 P112 BE112M4	160



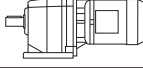





## 3.7 kW

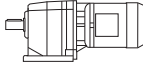



n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
46	722	1.8	38.0	14624	C612_38.0 S4 ME4SA4	170	C612_38.0 P112 BE112M4	168
47	687	1.3	37.0	9120	C513_37.0 S4 ME4SA4	162	C513_37.0 P112 BE112M4	160
48	691	1.1	36.4	9120	C512_36.4 S4 ME4SA4	162	C512_36.4 P112 BE112M4	160
48	651	2.2	36.1	14350	C613_36.1 S4 ME4SA4	170	C613_36.1 P112 BE112M4	168
51	650	1.8	34.2	14350	C612_34.2 S4 ME4SA4	170	C612_34.2 P112 BE112M4	168
53	628	1.2	33.0	9120	C512_33.0 S4 ME4SA4	162	C512_33.0 P112 BE112M4	160
53	594	2.4	33.0	14167	C613_33.0 S4 ME4SA4	170	C613_33.0 P112 BE112M4	168
56	581	0.9	31.2	4687	C413_31.2 S4 ME4SA4	154	C413_31.2 P112 BE112M4	152
57	578	2.3	30.4	13984	C612_30.4 S4 ME4SA4	170	C612_30.4 P112 BE112M4	168
58	559	1.6	30.1	9011	C513_30.1 S4 ME4SA4	162	C513_30.1 P112 BE112M4	160
58	566	1.4	29.8	9120	C512_29.8 S4 ME4SA4	162	C512_29.8 P112 BE112M4	160
59	528	2.6	29.4	13710	C613_29.4 S4 ME4SA4	170	C613_29.4 P112 BE112M4	168
61	530	1.0	28.5	4586	C413_28.5 S4 ME4SA4	154	C413_28.5 P112 BE112M4	152
63	511	1.7	27.4	8710	C513_27.4 S4 ME4SA4	162	C513_27.4 P112 BE112M4	160
63	521	2.5	27.4	13619	C612_27.4 S4 ME4SA4	170	C612_27.4 P112 BE112M4	168
65	482	2.8	26.8	13436	C613_26.8 S4 ME4SA4	170	C613_26.8 P112 BE112M4	168
66	487	0.9	26.2	3994	C363_26.2 S4 ME4SA4	146	C363_26.2 P112 BE112M4	144
67	492	1.5	25.9	9120	C512_25.9 S4 ME4SA4	162	C512_25.9 P112 BE112M4	160
69	476	1.0	25.0	4586	C412_25.0 S4 ME4SA4	154	C412_25.0 P112 BE112M4	152
70	472	2.9	24.8	13344	C612_24.8 S4 ME4SA4	170	C612_24.8 P112 BE112M4	168
73	444	1.9	23.9	8436	C513_23.9 S4 ME4SA4	162	C513_23.9 P112 BE112M4	160
75	444	1.7	23.4	9120	C512_23.4 S4 ME4SA4	162	C512_23.4 P112 BE112M4	160
77	429	1.1	22.6	4459	C412_22.6 S4 ME4SA4	154	C412_22.6 P112 BE112M4	152
78	425	2.9	22.4	12979	C612_22.4 S4 ME4SA4	170	C612_22.4 P112 BE112M4	168
79	412	1.0	22.1	3930	C363_22.1 S4 ME4SA4	146	C363_22.1 P112 BE112M4	144
80	406	2.0	21.8	8783	C513_21.8 S4 ME4SA4	162	C513_21.8 P112 BE112M4	160
83	398	1.8	21.0	9047	C512_21.0 S4 ME4SA4	162	C512_21.0 P112 BE112M4	160
88	375	1.2	19.8	4332	C412_19.8 S4 ME4SA4	154	C412_19.8 P112 BE112M4	152
92	361	1.1	19.0	3857	C362_19.0 S4 ME4SA4	146	C362_19.0 P112 BE112M4	144
92	359	2.0	18.9	8874	C512_18.9 S4 ME4SA4	162	C512_18.9 P112 BE112M4	160
98	338	1.3	17.8	4295	C412_17.8 S4 ME4SA4	154	C412_17.8 P112 BE112M4	152
101	327	1.1	17.2	3830	C362_17.2 S4 ME4SA4	146	C362_17.2 P112 BE112M4	144
105	315	2.3	16.6	8609	C512_16.6 S4 ME4SA4	162	C512_16.6 P112 BE112M4	160
110	301	1.4	15.8	4313	C412_15.8 S4 ME4SA4	154	C412_15.8 P112 BE112M4	152
116	284	2.6	15.0	8418	C512_15.0 S4 ME4SA4	162	C512_15.0 P112 BE112M4	160
118	280	1.3	14.8	3546	C362_14.8 S4 ME4SA4	146	C362_14.8 P112 BE112M4	144
122	271	1.5	14.2	4268	C412_14.2 S4 ME4SA4	154	C412_14.2 P112 BE112M4	152
131	253	1.4	13.3	3510	C362_13.3 S4 ME4SA4	146	C362_13.3 P112 BE112M4	144
133	249	2.8	13.1	8144	C512_13.1 S4 ME4SA4	162	C512_13.1 P112 BE112M4	160
140	235	1.7	12.4	4241	C412_12.4 S4 ME4SA4	154	C412_12.4 P112 BE112M4	152
141	234	1.0	12.3	3026	C322_12.3 S4 ME4SA4	138	C322_12.3 P112 BE112M4	136
149	222	1.6	11.7	3510	C362_11.7 S4 ME4SA4	146	C362_11.7 P112 BE112M4	144
155	213	1.0	11.2	2962	C322_11.2 S4 ME4SA4	138	C322_11.2 P112 BE112M4	136
156	212	1.8	11.2	4168	C412_11.2 S4 ME4SA4	154	C412_11.2 P112 BE112M4	152
164	201	1.7	10.6	3455	C362_10.6 S4 ME4SA4	146	C362_10.6 P112 BE112M4	144
181	182	2.0	9.6	4104	C412_9.6 S4 ME4SA4	154	C412_9.6 P112 BE112M4	152
187	177	1.1	9.3	2889	C322_9.3 S4 ME4SA4	138	C322_9.3 P112 BE112M4	136
198	167	2.1	8.8	3400	C362_8.8 S4 ME4SA4	146	C362_8.8 P112 BE112M4	144
201	164	2.2	8.6	4022	C412_8.6 S4 ME4SA4	154	C412_8.6 P112 BE112M4	152
205	161	1.2	8.5	2852	C322_8.5 S4 ME4SA4	138	C322_8.5 P112 BE112M4	136
217	153	2.2	8.0	3336	C362_8.0 S4 ME4SA4	146	C362_8.0 P112 BE112M4	144
243	136	1.4	7.2	2815	C322_7.2 S4 ME4SA4	138	C322_7.2 P112 BE112M4	136
246	134	2.4	7.1	3895	C412_7.1 S4 ME4SA4	154	C412_7.1 P112 BE112M4	152
257	129	2.6	6.8	3272	C362_6.8 S4 ME4SA4	146	C362_6.8 P112 BE112M4	144
273	121	2.6	6.4	3804	C412_6.4 S4 ME4SA4	154	C412_6.4 P112 BE112M4	152
278	119	1.3	6.3	2604	C322_6.3 S4 ME4SA4	138	C322_6.3 P112 BE112M4	136
292	113	2.3	6.0	3494	C412_6.0 S4 ME4SA4	154	C412_6.0 P112 BE112M4	152
298	111	1.7	5.8	3025	C362_5.8 S4 ME4SA4	146	C362_5.8 P112 BE112M4	144



## 3.7 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
308	107	1.3	5.7	2549	C322_5.7 S4 ME4SA4	138	C322_5.7 P112 BE112M4	136
330	100	1.8	5.3	2925	C362_5.3 S4 ME4SA4	146	C362_5.3 P112 BE112M4	144
351	94	1.5	5.0	2531	C322_5.0 S4 ME4SA4	138	C322_5.0 P112 BE112M4	136
365	91	1.0	4.8	1234			C222_4.8 P112 BE112M4	128
373	89	2.9	4.7	3185	C412_4.7 S4 ME4SA4	154	C412_4.7 P112 BE112M4	152
376	88	2.1	4.6	2907	C362_4.6 S4 ME4SA4	146	C362_4.6 P112 BE112M4	144
387	85	1.6	4.5	2467	C322_4.5 S4 ME4SA4	138	C322_4.5 P112 BE112M4	136
409	81	1.1	4.3	1188			C222_4.3 P112 BE112M4	128
414	80	2.3	4.2	2797	C362_4.2 S4 ME4SA4	146	C362_4.2 P112 BE112M4	144
466	71	1.9	3.7	2421	C322_3.7 S4 ME4SA4	138	C322_3.7 P112 BE112M4	136
469	70	1.2	3.7	1426			C222_3.7 P112 BE112M4	128
499	66	2.8	3.5	2751	C362_3.5 S4 ME4SA4	146	C362_3.5 P112 BE112M4	144
510	65	2.0	3.4	2366	C322_3.4 S4 ME4SA4	138	C322_3.4 P112 BE112M4	136
523	63	1.2	3.3	1408			C222_3.3 P112 BE112M4	128
604	55	2.2	2.9	2293	C322_2.9 S4 ME4SA4	138	C322_2.9 P112 BE112M4	136
639	52	1.4	2.7	1398			C222_2.7 P112 BE112M4	128

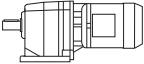




## 5.5 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
3.8	12602	1.0	466.7	78795	C1004_466.7 S4 ME4SB4	196	C1004_466.7 P132 BE132S4	194
4.3	11064	1.1	409.8	78795	C1004_409.8 S4 ME4SB4	196	C1004_409.8 P132 BE132S4	194
4.6	10273	1.2	380.5	78795	C1004_380.5 S4 ME4SB4	196	C1004_380.5 P132 BE132S4	194
5.4	8738	1.4	323.6	78795	C1004_323.6 S4 ME4SB4	196	C1004_323.6 P132 BE132S4	194
5.9	8114	1.5	300.5	78795	C1004_300.5 S4 ME4SB4	196	C1004_300.5 P132 BE132S4	194
6.0	7908	0.9	292.9	55620	C904_292.9 S4 ME4SB4	190	C904_292.9 P132 BE132S4	188
6.6	7249	1.0	268.5	55620	C904_268.5 S4 ME4SB4	190	C904_268.5 P132 BE132S4	188
6.7	7101	1.7	263.0	78795	C1004_263.0 S4 ME4SB4	196	C1004_263.0 P132 BE132S4	194
7.2	6594	1.8	244.2	78795	C1004_244.2 S4 ME4SB4	196	C1004_244.2 P132 BE132S4	194
7.6	6256	1.2	231.7	55620	C904_231.7 S4 ME4SB4	190	C904_231.7 P132 BE132S4	188
8.3	5734	1.3	212.4	55620	C904_212.4 S4 ME4SB4	190	C904_212.4 P132 BE132S4	188
8.8	5390	2.2	199.6	78795	C1004_199.6 S4 ME4SB4	196	C1004_199.6 P132 BE132S4	194
9.5	5005	2.4	185.4	78795	C1004_185.4 S4 ME4SB4	196	C1004_185.4 P132 BE132S4	194
10.2	4802	1.5	172.1	55620	C903_172.1 S4 ME4SB4	190	C903_172.1 P132 BE132S4	188
10.9	4377	2.7	162.1	78795	C1004_162.1 S4 ME4SB4	196	C1004_162.1 P132 BE132S4	194
11.2	4402	1.6	157.8	55620	C903_157.8 S4 ME4SB4	190	C903_157.8 P132 BE132S4	188
11.7	4197	2.9	150.4	78795	C1003_150.4 S4 ME4SB4	196	C1003_150.4 P132 BE132S4	194
11.8	4160	1.0	149.1	31947	C803_149.1 S4 ME4SB4	184	C803_149.1 P132 BE132S4	182
12.0	4083	1.8	146.3	55620	C903_146.3 S4 ME4SB4	190	C903_146.3 P132 BE132S4	188
12.6	3897	2.8	139.7	78795	C1003_139.7 S4 ME4SB4	196	C1003_139.7 P132 BE132S4	194
12.9	3814	1.0	136.7	31947	C803_136.7 S4 ME4SB4	184	C803_136.7 P132 BE132S4	182
13.1	3742	1.9	134.1	55620	C903_134.1 S4 ME4SB4	190	C903_134.1 P132 BE132S4	188
14.7	3333	1.2	119.5	32410	C803_119.5 S4 ME4SB4	184	C803_119.5 P132 BE132S4	182
15.1	3257	2.2	116.7	55620	C903_116.7 S4 ME4SB4	190	C903_116.7 P132 BE132S4	188
16.1	3055	1.3	109.5	32410	C803_109.5 S4 ME4SB4	184	C803_109.5 P132 BE132S4	182
16.4	2985	2.4	107.0	55620	C903_107.0 S4 ME4SB4	190	C903_107.0 P132 BE132S4	188
18.1	2717	1.4	97.4	32410	C803_97.4 S4 ME4SB4	184	C803_97.4 P132 BE132S4	182
18.3	2685	2.7	96.2	55620	C903_96.2 S4 ME4SB4	190	C903_96.2 P132 BE132S4	188
19.7	2491	1.6	89.3	32410	C803_89.3 S4 ME4SB4	184	C803_89.3 P132 BE132S4	182
20.0	2461	2.9	88.2	55620	C903_88.2 S4 ME4SB4	190	C903_88.2 P132 BE132S4	188
20.0	2461	0.9	88.2	21321	C703_88.2 S4 ME4SB4	178	C703_88.2 P132 BE132S4	176
21.6	2271	1.0	81.4	21321	C703_81.4 S4 ME4SB4	178	C703_81.4 P132 BE132S4	176
22.9	2146	1.7	76.9	32410	C803_76.9 S4 ME4SB4	184	C803_76.9 P132 BE132S4	182
24.7	1990	1.1	71.3	23175	C703_71.3 S4 ME4SB4	178	C703_71.3 P132 BE132S4	176



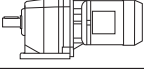






## 5.5 kW

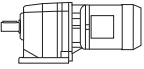




n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
25.0	1967	1.9	70.5	32410	C803_70.5 S4 ME4SB4	184	C803_70.5 P132 BE132S4	182
26.7	1837	1.2	65.9	23175	C703_65.9 S4 ME4SB4	178	C703_65.9 P132 BE132S4	176
28.2	1744	2.1	62.5	32410	C803_62.5 S4 ME4SB4	184	C803_62.5 P132 BE132S4	182
30	1582	0.9	58.6	13344	C613_58.6 S4 ME4SB4	170	C613_58.6 P132 BE132S4	168
31	1599	2.3	57.3	32410	C803_57.3 S4 ME4SB4	184	C803_57.3 P132 BE132S4	182
31	1577	1.4	56.5	23175	C703_56.5 S4 ME4SB4	178	C703_56.5 P132 BE132S4	176
33	1443	1.0	53.5	13710	C613_53.5 S4 ME4SB4	170	C613_53.5 P132 BE132S4	168
34	1455	1.5	52.2	22897	C703_52.2 S4 ME4SB4	178	C703_52.2 P132 BE132S4	176
37	1286	1.2	47.6	13984	C613_47.6 S4 ME4SB4	170	C613_47.6 P132 BE132S4	168
37	1324	2.7	47.4	32410	C803_47.4 S4 ME4SB4	184	C803_47.4 P132 BE132S4	182
39	1247	1.7	44.7	22341	C703_44.7 S4 ME4SB4	178	C703_44.7 P132 BE132S4	176
40	1213	2.9	43.5	32410	C803_43.5 S4 ME4SB4	184	C803_43.5 P132 BE132S4	182
41	1173	1.3	43.4	13710	C613_43.4 S4 ME4SB4	170	C613_43.4 P132 BE132S4	168
43	1151	1.9	41.3	22063	C703_41.3 S4 ME4SB4	178	C703_41.3 P132 BE132S4	176
45	1115	2.7	39.1	32410	C802_39.1 S4 ME4SB4	184	C802_39.1 P132 BE132S4	182
46	1083	1.2	38.0	13527	C612_38.0 S4 ME4SB4	170	C612_38.0 P132 BE132S4	168
49	976	1.5	36.1	13527	C613_36.1 S4 ME4SB4	170	C613_36.1 P132 BE132S4	168
51	990	2.1	34.7	20487	C702_34.7 S4 ME4SB4	178	C702_34.7 P132 BE132S4	176
51	975	1.2	34.2	13253	C612_34.2 S4 ME4SB4	170	C612_34.2 P132 BE132S4	168
53	890	1.6	33.0	13253	C613_33.0 S4 ME4SB4	170	C613_33.0 P132 BE132S4	168
58	868	1.6	30.4	13070	C612_30.4 S4 ME4SB4	170	C612_30.4 P132 BE132S4	168
59	839	1.1	30.1	8764	C513_30.1 S4 ME4SB4	162	C513_30.1 P132 BE132S4	160
59	849	0.9	29.8	8299	C512_29.8 S4 ME4SB4	162	C512_29.8 P132 BE132S4	160
60	793	1.7	29.4	12796	C613_29.4 S4 ME4SB4	170	C613_29.4 P132 BE132S4	168
63	790	2.7	27.7	19652	C702_27.7 S4 ME4SB4	178	C702_27.7 P132 BE132S4	176
64	766	1.2	27.4	8655	C513_27.4 S4 ME4SB4	162	C513_27.4 P132 BE132S4	160
64	781	1.7	27.4	12705	C612_27.4 S4 ME4SB4	170	C612_27.4 P132 BE132S4	168
66	723	1.8	26.8	12613	C613_26.8 S4 ME4SB4	170	C613_26.8 P132 BE132S4	168
68	738	1.0	25.9	8527	C512_25.9 S4 ME4SB4	162	C512_25.9 P132 BE132S4	160
71	707	1.9	24.8	12522	C612_24.8 S4 ME4SB4	170	C612_24.8 P132 BE132S4	168
74	667	1.3	23.9	8700	C513_23.9 S4 ME4SB4	162	C513_23.9 P132 BE132S4	160
75	666	1.1	23.4	8491	C512_23.4 S4 ME4SB4	162	C512_23.4 P132 BE132S4	160
79	637	2.0	22.4	12248	C612_22.4 S4 ME4SB4	170	C612_22.4 P132 BE132S4	168
81	609	1.4	21.8	8080	C513_21.8 S4 ME4SB4	162	C513_21.8 P132 BE132S4	160
84	597	1.2	21.0	8345	C512_21.0 S4 ME4SB4	162	C512_21.0 P132 BE132S4	160
90	559	2.3	19.6	11973	C612_19.6 S4 ME4SB4	170	C612_19.6 P132 BE132S4	168
93	538	1.4	18.9	8235	C512_18.9 S4 ME4SB4	162	C512_18.9 P132 BE132S4	160
100	503	2.5	17.7	11608	C612_17.7 S4 ME4SB4	170	C612_17.7 P132 BE132S4	168
106	473	1.5	16.6	8035	C512_16.6 S4 ME4SB4	162	C512_16.6 P132 BE132S4	160
110	454	2.8	15.9	11425	C612_15.9 S4 ME4SB4	170	C612_15.9 P132 BE132S4	168
111	451	0.9	15.8	3731	C412_15.8 S4 ME4SB4	154	C412_15.8 P132 BE132S4	152
118	426	1.7	15.0	7898	C512_15.0 S4 ME4SB4	162	C512_15.0 P132 BE132S4	160
124	406	1.0	14.2	3640	C412_14.2 S4 ME4SB4	154	C412_14.2 P132 BE132S4	152
132	380	0.9	13.3	3053	C362_13.3 S4 ME4SB4	146	C362_13.3 P132 BE132S4	144
134	374	1.8	13.1	7679	C512_13.1 S4 ME4SB4	162	C512_13.1 P132 BE132S4	160
142	353	1.1	12.4	3695	C412_12.4 S4 ME4SB4	154	C412_12.4 P132 BE132S4	152
149	337	2.1	11.8	7524	C512_11.8 S4 ME4SB4	162	C512_11.8 P132 BE132S4	160
151	332	1.1	11.7	3089	C362_11.7 S4 ME4SB4	146	C362_11.7 P132 BE132S4	144
158	318	1.2	11.2	3667	C412_11.2 S4 ME4SB4	154	C412_11.2 P132 BE132S4	152
166	302	1.2	10.6	3062	C362_10.6 S4 ME4SB4	146	C362_10.6 P132 BE132S4	144
180	278	2.3	9.8	7196	C512_9.8 S4 ME4SB4	162	C512_9.8 P132 BE132S4	160
183	273	1.3	9.6	3667	C412_9.6 S4 ME4SB4	154	C412_9.6 P132 BE132S4	152
200	251	1.4	8.8	3062	C362_8.8 S4 ME4SB4	146	C362_8.8 P132 BE132S4	144
200	251	2.5	8.8	7022	C512_8.8 S4 ME4SB4	162	C512_8.8 P132 BE132S4	160



## 5.5 kW

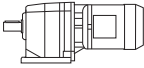




n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
204	246	1.4	8.6	3458	C412_8.6 S4 ME4SB4	154	C412_8.6 P132 BE132S4	152
219	229	1.5	8.0	3044	C362_8.0 S4 ME4SB4	146	C362_8.0 P132 BE132S4	144
227	221	2.7	7.8	6804	C512_7.8 S4 ME4SB4	162	C512_7.8 P132 BE132S4	160
246	204	0.9	7.2	2338	C322_7.2 S4 ME4SB4	138	C322_7.2 P132 BE132S4	136
249	201	1.6	7.1	3567	C412_7.1 S4 ME4SB4	154	C412_7.1 P132 BE132S4	152
252	199	2.9	7.0	6639	C512_7.0 S4 ME4SB4	162	C512_7.0 P132 BE132S4	160
260	193	1.7	6.8	2998	C362_6.8 S4 ME4SB4	146	C362_6.8 P132 BE132S4	144
277	181	1.8	6.4	3494	C412_6.4 S4 ME4SB4	154	C412_6.4 P132 BE132S4	152
296	170	1.5	6.0	3121	C412_6.0 S4 ME4SB4	154	C412_6.0 P132 BE132S4	152
301	167	1.1	5.8	2760	C362_5.8 S4 ME4SB4	146	C362_5.8 P132 BE132S4	144
313	160	2.5	5.6	6129	C512_5.6 S4 ME4SB4	162	C512_5.6 P132 BE132S4	160
333	150	1.2	5.3	2678	C362_5.3 S4 ME4SB4	146	C362_5.3 P132 BE132S4	144
355	141	1.0	5.0	2274	C322_5.0 S4 ME4SB4	138	C322_5.0 P132 BE132S4	136
377	133	2.0	4.7	3058	C412_4.7 S4 ME4SB4	154	C412_4.7 P132 BE132S4	152
381	132	1.4	4.6	2614	C362_4.6 S4 ME4SB4	146	C362_4.6 P132 BE132S4	144
391	128	1.1	4.5	2293	C322_4.5 S4 ME4SB4	138	C322_4.5 P132 BE132S4	136
419	120	1.5	4.2	2587	C362_4.2 S4 ME4SB4	146	C362_4.2 P132 BE132S4	144
471	106	1.3	3.7	2210	C322_3.7 S4 ME4SB4	138	C322_3.7 P132 BE132S4	136
487	103	2.5	3.6	2948	C412_3.6 S4 ME4SB4	154	C412_3.6 P132 BE132S4	152
505	99	1.9	3.5	2514	C362_3.5 S4 ME4SB4	146	C362_3.5 P132 BE132S4	144
516	97	1.3	3.4	2173	C322_3.4 S4 ME4SB4	138	C322_3.4 P132 BE132S4	136
553	91	2.0	3.2	2468	C362_3.2 S4 ME4SB4	146	C362_3.2 P132 BE132S4	144
611	82	1.5	2.9	2118	C322_2.9 S4 ME4SB4	138	C322_2.9 P132 BE132S4	136
655	77	2.4	2.7	2395	C362_2.7 S4 ME4SB4	146	C362_2.7 P132 BE132S4	144

## 7.5 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
5.4	11942	1.0	323.6	78795	C1004_323.6 S4 ME4LA4	196	C1004_323.6 P132 BE132MA4	194
5.9	11089	1.1	300.5	78795	C1004_300.5 S4 ME4LA4	196	C1004_300.5 P132 BE132MA4	194
6.7	9705	1.2	263.0	78795	C1004_263.0 S4 ME4LA4	196	C1004_263.0 P132 BE132MA4	194
7.2	9012	1.3	244.2	78795	C1004_244.2 S4 ME4LA4	196	C1004_244.2 P132 BE132MA4	194
8.3	7837	0.9	212.4	55620	C904_212.4 S4 ME4LA4	190	C904_212.4 P132 BE132MA4	188
8.8	7366	1.6	199.6	78795	C1004_199.6 S4 ME4LA4	196	C1004_199.6 P132 BE132MA4	194
9.5	6840	1.8	185.4	78795	C1004_185.4 S4 ME4LA4	196	C1004_185.4 P132 BE132MA4	194
10.2	6562	1.1	172.1	55620	C903_172.1 S4 ME4LA4	190	C903_172.1 P132 BE132MA4	188
10.9	5982	2.0	162.1	78795	C1004_162.1 S4 ME4LA4	196	C1004_162.1 P132 BE132MA4	194
11.2	6015	1.2	157.8	55620	C903_157.8 S4 ME4LA4	190	C903_157.8 P132 BE132MA4	188
11.7	5736	2.1	150.4	78795	C1003_150.4 S4 ME4LA4	196	C1003_150.4 P132 BE132MA4	194
12.0	5580	1.3	146.3	55249	C903_146.3 S4 ME4LA4	190	C903_146.3 P132 BE132MA4	188
12.6	5326	2.1	139.7	78795	C1003_139.7 S4 ME4LA4	196	C1003_139.7 P132 BE132MA4	194
13.1	5115	1.4	134.1	55064	C903_134.1 S4 ME4LA4	190	C903_134.1 P132 BE132MA4	188
14.6	4595	2.6	120.5	78795	C1003_120.5 S4 ME4LA4	196	C1003_120.5 P132 BE132MA4	194
15.1	4451	1.6	116.7	54322	C903_116.7 S4 ME4LA4	190	C903_116.7 P132 BE132MA4	188
15.7	4267	2.8	111.9	78795	C1003_111.9 S4 ME4LA4	196	C1003_111.9 P132 BE132MA4	194
16.1	4175	1.0	109.5	31947	C803_109.5 S4 ME4LA4	184	C803_109.5 P132 BE132MA4	182
16.4	4080	1.7	107.0	53951	C903_107.0 S4 ME4LA4	190	C903_107.0 P132 BE132MA4	188
18.1	3713	1.1	97.4	31947	C803_97.4 S4 ME4LA4	184	C803_97.4 P132 BE132MA4	182
18.3	3670	2.0	96.2	53303	C903_96.2 S4 ME4LA4	190	C903_96.2 P132 BE132MA4	188

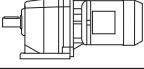





## 7.5 kW

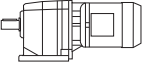



n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
19.7	3404	1.1	89.3	32410	C803_89.3 S4 ME4LA4	184	C803_89.3 P132 BE132MA4	182
20.0	3364	2.1	88.2	52468	C903_88.2 S4 ME4LA4	190	C903_88.2 P132 BE132MA4	188
21.7	3097	2.3	81.2	52005	C903_81.2 S4 ME4LA4	190	C903_81.2 P132 BE132MA4	188
22.9	2933	1.3	76.9	32410	C803_76.9 S4 ME4LA4	184	C803_76.9 P132 BE132MA4	182
23.6	2839	2.5	74.4	51170	C903_74.4 S4 ME4LA4	190	C903_74.4 P132 BE132MA4	188
25.0	2688	1.4	70.5	32410	C803_70.5 S4 ME4LA4	184	C803_70.5 P132 BE132MA4	182
27.3	2463	2.9	64.6	50058	C903_64.6 S4 ME4LA4	190	C903_64.6 P132 BE132MA4	188
28.2	2383	1.6	62.5	32410	C803_62.5 S4 ME4LA4	184	C803_62.5 P132 BE132MA4	182
31	2185	1.7	57.3	32410	C803_57.3 S4 ME4LA4	184	C803_57.3 P132 BE132MA4	182
31	2155	1.0	56.5	20858	C703_56.5 S4 ME4LA4	178	C703_56.5 P132 BE132MA4	176
34	1989	1.1	52.2	21228	C703_52.2 S4 ME4LA4	178	C703_52.2 P132 BE132MA4	176
37	1809	1.9	47.4	32410	C803_47.4 S4 ME4LA4	184	C803_47.4 P132 BE132MA4	182
39	1704	1.2	44.7	20858	C703_44.7 S4 ME4LA4	178	C703_44.7 P132 BE132MA4	176
40	1658	2.1	43.5	32410	C803_43.5 S4 ME4LA4	184	C803_43.5 P132 BE132MA4	182
41	1603	0.9	43.4	12156	C613_43.4 S4 ME4LA4	170	C613_43.4 P132 BE132MA4	168
43	1573	1.4	41.3	20672	C703_41.3 S4 ME4LA4	178	C703_41.3 P132 BE132MA4	176
45	1523	1.9	39.1	31114	C802_39.1 S4 ME4LA4	184	C802_39.1 P132 BE132MA4	182
49	1334	1.1	36.1	12156	C613_36.1 S4 ME4LA4	170	C613_36.1 P132 BE132MA4	168
51	1353	1.6	34.7	19004	C702_34.7 S4 ME4LA4	178	C702_34.7 P132 BE132MA4	176
53	1217	1.2	33.0	11973	C613_33.0 S4 ME4LA4	170	C613_33.0 P132 BE132MA4	168
56	1220	2.8	31.3	29817	C802_31.3 S4 ME4LA4	184	C802_31.3 P132 BE132MA4	182
58	1186	1.1	30.4	11882	C612_30.4 S4 ME4LA4	170	C612_30.4 P132 BE132MA4	168
60	1083	1.3	29.4	11973	C613_29.4 S4 ME4LA4	170	C613_29.4 P132 BE132MA4	168
63	1080	1.9	27.7	18540	C702_27.7 S4 ME4LA4	178	C702_27.7 P132 BE132MA4	176
64	1068	1.2	27.4	11699	C612_27.4 S4 ME4LA4	170	C612_27.4 P132 BE132MA4	168
66	988	1.3	26.8	11699	C613_26.8 S4 ME4LA4	170	C613_26.8 P132 BE132MA4	168
71	967	1.4	24.8	11608	C612_24.8 S4 ME4LA4	170	C612_24.8 P132 BE132MA4	168
74	911	0.9	23.9	7478	C513_23.9 S4 ME4LA4	162	C513_23.9 P132 BE132MA4	160
77	890	2.4	22.9	17984	C702_22.9 S4 ME4LA4	178	C702_22.9 P132 BE132MA4	176
79	871	1.4	22.4	11425	C612_22.4 S4 ME4LA4	170	C612_22.4 P132 BE132MA4	168
81	832	1.0	21.8	6566	C513_21.8 S4 ME4LA4	162	C513_21.8 P132 BE132MA4	160
90	763	1.7	19.6	11242	C612_19.6 S4 ME4LA4	170	C612_19.6 P132 BE132MA4	168
91	751	2.8	19.3	17520	C702_19.3 S4 ME4LA4	178	C702_19.3 P132 BE132MA4	176
93	736	1.0	18.9	6475	C512_18.9 S4 ME4LA4	162	C512_18.9 P132 BE132MA4	160
100	688	1.8	17.7	10968	C612_17.7 S4 ME4LA4	170	C612_17.7 P132 BE132MA4	168
105	651	2.9	16.7	16871	C702_16.7 S4 ME4LA4	178	C702_16.7 P132 BE132MA4	176
106	647	1.1	16.6	7360	C512_16.6 S4 ME4LA4	162	C512_16.6 P132 BE132MA4	160
110	620	2.0	15.9	10785	C612_15.9 S4 ME4LA4	170	C612_15.9 P132 BE132MA4	168
118	583	1.3	15.0	7296	C512_15.0 S4 ME4LA4	162	C512_15.0 P132 BE132MA4	160
123	559	2.2	14.3	10511	C612_14.3 S4 ME4LA4	170	C612_14.3 P132 BE132MA4	168
134	511	1.3	13.1	7150	C512_13.1 S4 ME4LA4	162	C512_13.1 P132 BE132MA4	160
146	471	2.7	12.1	10145	C612_12.1 S4 ME4LA4	170	C612_12.1 P132 BE132MA4	168
149	461	1.5	11.8	7050	C512_11.8 S4 ME4LA4	162	C512_11.8 P132 BE132MA4	160
162	424	3.0	10.9	9963	C612_10.9 S4 ME4LA4	170	C612_10.9 P132 BE132MA4	168
180	380	1.7	9.8	6794	C512_9.8 S4 ME4LA4	162	C512_9.8 P132 BE132MA4	160
183	374	1.0	9.6	3003	C412_9.6 S4 ME4LA4	154	C412_9.6 P132 BE132MA4	152
200	343	1.0	8.8	2632	C362_8.8 S4 ME4LA4	146	C362_8.8 P132 BE132MA4	144
200	342	1.8	8.8	6676	C512_8.8 S4 ME4LA4	162	C512_8.8 P132 BE132MA4	160
204	337	1.1	8.6	3121	C412_8.6 S4 ME4LA4	154	C412_8.6 P132 BE132MA4	152



## 7.5 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
219	313	1.1	8.0	2651	C362_8.0 S4 ME4LA4	146	C362_8.0 P132 BE132MA4	144
227	302	1.9	7.8	6493	C512_7.8 S4 ME4LA4	162	C512_7.8 P132 BE132MA4	160
249	275	1.2	7.1	3158	C412_7.1 S4 ME4LA4	154	C412_7.1 P132 BE132MA4	152
252	272	2.1	7.0	6357	C512_7.0 S4 ME4LA4	162	C512_7.0 P132 BE132MA4	160
260	264	1.2	6.8	2651	C362_6.8 S4 ME4LA4	146	C362_6.8 P132 BE132MA4	144
277	248	1.3	6.4	3130	C412_6.4 S4 ME4LA4	154	C412_6.4 P132 BE132MA4	152
293	234	2.6	6.0	8391	C612_6.0 S4 ME4LA4	170	C612_6.0 P132 BE132MA4	168
296	232	1.1	6.0	2657	C412_6.0 S4 ME4LA4	154	C412_6.0 P132 BE132MA4	152
313	219	1.8	5.6	5846	C512_5.6 S4 ME4LA4	162	C512_5.6 P132 BE132MA4	160
333	206	0.9	5.3	2376	C362_5.3 S4 ME4LA4	146	C362_5.3 P132 BE132MA4	144
377	182	1.4	4.7	2694	C412_4.7 S4 ME4LA4	154	C412_4.7 P132 BE132MA4	152
381	180	1.0	4.6	2376	C362_4.6 S4 ME4LA4	146	C362_4.6 P132 BE132MA4	144
395	173	2.3	4.5	5554	C512_4.5 S4 ME4LA4	162	C512_4.5 P132 BE132MA4	160
419	164	1.1	4.2	2331	C362_4.2 S4 ME4LA4	146	C362_4.2 P132 BE132MA4	144
471	145	0.9	3.7	1944	C322_3.7 S4 ME4LA4	138	C322_3.7 P132 BE132MA4	136
487	141	1.8	3.6	2666	C412_3.6 S4 ME4LA4	154	C412_3.6 P132 BE132MA4	152
505	136	1.4	3.5	2285	C362_3.5 S4 ME4LA4	146	C362_3.5 P132 BE132MA4	144
516	133	1.0	3.4	1907	C322_3.4 S4 ME4LA4	138	C322_3.4 P132 BE132MA4	136
532	129	3.0	3.3	5162	C512_3.3 S4 ME4LA4	162	C512_3.3 P132 BE132MA4	160
553	124	1.5	3.2	2285	C362_3.2 S4 ME4LA4	146	C362_3.2 P132 BE132MA4	144
611	112	1.1	2.9	1926	C322_2.9 S4 ME4LA4	138	C322_2.9 P132 BE132MA4	136
655	105	1.8	2.7	2230	C362_2.7 S4 ME4LA4	146	C362_2.7 P132 BE132MA4	144
662	104	2.4	2.7	2584	C412_2.7 S4 ME4LA4	154	C412_2.7 P132 BE132MA4	152






## 9.2 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
6.7	11835	1.0	263.0	78795	C1004_263.0 S4 ME4LB4	196	C1004_263.0 P132 BE132MB4	194
7.2	10990	1.1	244.2	78795	C1004_244.2 S4 ME4LB4	196	C1004_244.2 P132 BE132MB4	194
8.8	8983	1.3	199.6	78795	C1004_199.6 S4 ME4LB4	196	C1004_199.6 P132 BE132MB4	194
9.5	8342	1.4	185.4	78795	C1004_185.4 S4 ME4LB4	196	C1004_185.4 P132 BE132MB4	194
10.9	7295	1.6	162.1	78795	C1004_162.1 S4 ME4LB4	196	C1004_162.1 P132 BE132MB4	194
11.2	7336	1.0	157.8	51727	C903_157.8 S4 ME4LB4	190	C903_157.8 P132 BE132MB4	188
11.7	6995	1.7	150.4	78795	C1003_150.4 S4 ME4LB4	196	C1003_150.4 P132 BE132MB4	194
12.0	6804	1.1	146.3	51356	C903_146.3 S4 ME4LB4	190	C903_146.3 P132 BE132MB4	188
12.6	6495	1.7	139.7	78795	C1003_139.7 S4 ME4LB4	196	C1003_139.7 P132 BE132MB4	194
13.1	6237	1.1	134.1	50892	C903_134.1 S4 ME4LB4	190	C903_134.1 P132 BE132MB4	188
14.6	5604	2.1	120.5	78795	C1003_120.5 S4 ME4LB4	196	C1003_120.5 P132 BE132MB4	194
15.1	5428	1.3	116.7	50800	C903_116.7 S4 ME4LB4	190	C903_116.7 P132 BE132MB4	188
15.7	5204	2.3	111.9	78795	C1003_111.9 S4 ME4LB4	196	C1003_111.9 P132 BE132MB4	194
16.4	4976	1.4	107.0	50614	C903_107.0 S4 ME4LB4	190	C903_107.0 P132 BE132MB4	188
17.6	4641	2.6	99.8	78795	C1003_99.8 S4 ME4LB4	196	C1003_99.8 P132 BE132MB4	194
18.3	4475	1.6	96.2	50243	C903_96.2 S4 ME4LB4	190	C903_96.2 P132 BE132MB4	188
19.0	4309	2.8	92.7	78795	C1003_92.7 S4 ME4LB4	196	C1003_92.7 P132 BE132MB4	194
19.7	4151	0.9	89.3	29632	C803_89.3 S4 ME4LB4	184	C803_89.3 P132 BE132MB4	182
20.0	4102	1.7	88.2	49780	C903_88.2 S4 ME4LB4	190	C903_88.2 P132 BE132MB4	188
21.7	3776	1.9	81.2	49409	C903_81.2 S4 ME4LB4	190	C903_81.2 P132 BE132MB4	188









## 9.2 kW

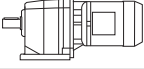



n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
22.9	3576	1.0	76.9	31206	C803_76.9 S4 ME4LB4	184	C803_76.9 P132 BE132MB4	182
23.6	3462	2.1	74.4	48853	C903_74.4 S4 ME4LB4	190	C903_74.4 P132 BE132MB4	188
25.0	3278	1.1	70.5	32410	C803_70.5 S4 ME4LB4	184	C803_70.5 P132 BE132MB4	182
27.3	3003	2.4	64.6	48019	C903_64.6 S4 ME4LB4	190	C903_64.6 P132 BE132MB4	188
28.2	2907	1.3	62.5	32410	C803_62.5 S4 ME4LB4	184	C803_62.5 P132 BE132MB4	182
29.7	2753	2.6	59.2	47370	C903_59.2 S4 ME4LB4	190	C903_59.2 P132 BE132MB4	188
31	2664	1.4	57.3	32410	C803_57.3 S4 ME4LB4	184	C803_57.3 P132 BE132MB4	182
32	2552	2.7	54.9	46814	C903_54.9 S4 ME4LB4	190	C903_54.9 P132 BE132MB4	188
35	2339	2.9	50.3	46072	C903_50.3 S4 ME4LB4	190	C903_50.3 P132 BE132MB4	188
37	2206	1.6	47.4	32317	C803_47.4 S4 ME4LB4	184	C803_47.4 P132 BE132MB4	182
39	2079	1.0	44.7	19560	C703_44.7 S4 ME4LB4	178	C703_44.7 P132 BE132MB4	176
40	2022	1.7	43.5	31854	C803_43.5 S4 ME4LB4	184	C803_43.5 P132 BE132MB4	182
43	1919	1.1	41.3	19467	C703_41.3 S4 ME4LB4	178	C703_41.3 P132 BE132MB4	176
45	1858	1.6	39.1	29910	C802_39.1 S4 ME4LB4	184	C802_39.1 P132 BE132MB4	182
51	1651	1.3	34.7	17798	C702_34.7 S4 ME4LB4	178	C702_34.7 P132 BE132MB4	176
53	1484	1.0	33.0	11059	C613_33.0 S4 ME4LB4	170	C613_33.0 P132 BE132MB4	168
56	1488	2.3	31.3	28799	C802_31.3 S4 ME4LB4	184	C802_31.3 P132 BE132MB4	182
58	1446	0.9	30.4	11242	C612_30.4 S4 ME4LB4	170	C612_30.4 P132 BE132MB4	168
60	1321	1.0	29.4	9597	C613_29.4 S4 ME4LB4	170	C613_29.4 P132 BE132MB4	168
63	1317	1.6	27.7	17520	C702_27.7 S4 ME4LB4	178	C702_27.7 P132 BE132MB4	176
64	1302	1.0	27.4	9506	C612_27.4 S4 ME4LB4	170	C612_27.4 P132 BE132MB4	168
66	1205	1.1	26.8	10420	C613_26.8 S4 ME4LB4	170	C613_26.8 P132 BE132MB4	168
68	1233	2.8	25.9	28058	C802_25.9 S4 ME4LB4	184	C802_25.9 P132 BE132MB4	182
71	1179	1.1	24.8	10785	C612_24.8 S4 ME4LB4	170	C612_24.8 P132 BE132MB4	168
73	1138	2.9	24.0	27780	C802_24.0 S4 ME4LB4	184	C802_24.0 P132 BE132MB4	182
77	1086	1.9	22.9	17150	C702_22.9 S4 ME4LB4	178	C702_22.9 P132 BE132MB4	176
79	1062	1.2	22.4	10694	C612_22.4 S4 ME4LB4	170	C612_22.4 P132 BE132MB4	168
90	931	1.4	19.6	10602	C612_19.6 S4 ME4LB4	170	C612_19.6 P132 BE132MB4	168
91	916	2.3	19.3	16779	C702_19.3 S4 ME4LB4	178	C702_19.3 P132 BE132MB4	176
100	838	1.5	17.7	10420	C612_17.7 S4 ME4LB4	170	C612_17.7 P132 BE132MB4	168
105	793	2.4	16.7	16223	C702_16.7 S4 ME4LB4	178	C702_16.7 P132 BE132MB4	176
106	789	0.9	16.6	6749	C512_16.6 S4 ME4LB4	162	C512_16.6 P132 BE132MB4	160
110	757	1.7	15.9	10237	C612_15.9 S4 ME4LB4	170	C612_15.9 P132 BE132MB4	168
115	728	2.9	15.3	16223	C702_15.3 S4 ME4LB4	178	C702_15.3 P132 BE132MB4	176
118	711	1.0	15.0	6776	C512_15.0 S4 ME4LB4	162	C512_15.0 P132 BE132MB4	160
123	681	1.8	14.3	10054	C612_14.3 S4 ME4LB4	170	C612_14.3 P132 BE132MB4	168
125	670	3.0	14.1	15759	C702_14.1 S4 ME4LB4	178	C702_14.1 P132 BE132MB4	176
134	624	1.1	13.1	6694	C512_13.1 S4 ME4LB4	162	C512_13.1 P132 BE132MB4	160
146	574	2.2	12.1	9780	C612_12.1 S4 ME4LB4	170	C612_12.1 P132 BE132MB4	168
149	562	1.3	11.8	6639	C512_11.8 S4 ME4LB4	162	C512_11.8 P132 BE132MB4	160
162	517	2.4	10.9	9597	C612_10.9 S4 ME4LB4	170	C612_10.9 P132 BE132MB4	168
179	466	2.7	9.8	9414	C612_9.8 S4 ME4LB4	170	C612_9.8 P132 BE132MB4	168
180	463	1.4	9.8	6457	C512_9.8 S4 ME4LB4	162	C512_9.8 P132 BE132MB4	160
199	420	3.0	8.8	9140	C612_8.8 S4 ME4LB4	170	C612_8.8 P132 BE132MB4	168
200	418	1.5	8.8	6375	C512_8.8 S4 ME4LB4	162	C512_8.8 P132 BE132MB4	160
227	368	1.6	7.8	6220	C512_7.8 S4 ME4LB4	162	C512_7.8 P132 BE132MB4	160
249	336	1.0	7.1	2867	C412_7.1 S4 ME4LB4	154	C412_7.1 P132 BE132MB4	152
252	332	1.7	7.0	6120	C512_7.0 S4 ME4LB4	162	C512_7.0 P132 BE132MB4	160
260	322	1.0	6.8	2239	C362_6.8 S4 ME4LB4	146	C362_6.8 P132 BE132MB4	144



## 9.2 kW

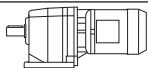



n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
277	302	1.1	6.4	2821	C412_6.4 S4 ME4LB4	154	C412_6.4 P132 BE132MB4	152
293	285	2.2	6.0	8162	C612_6.0 S4 ME4LB4	170	C612_6.0 P132 BE132MB4	168
296	283	0.9	6.0	2594	C412_6.0 S4 ME4LB4	154	C412_6.0 P132 BE132MB4	152
313	267	1.5	5.6	5609	C512_5.6 S4 ME4LB4	162	C512_5.6 P132 BE132MB4	160
377	221	1.2	4.7	2384	C412_4.7 S4 ME4LB4	154	C412_4.7 P132 BE132MB4	152
386	216	2.8	4.6	7641	C612_4.6 S4 ME4LB4	170	C612_4.6 P132 BE132MB4	168
395	212	1.9	4.5	5363	C512_4.5 S4 ME4LB4	162	C512_4.5 P132 BE132MB4	160
419	199	0.9	4.2	2157	C362_4.2 S4 ME4LB4	146	C362_4.2 P132 BE132MB4	144
487	172	1.5	3.6	2430	C412_3.6 S4 ME4LB4	154	C412_3.6 P132 BE132MB4	152
505	166	1.1	3.5	2102	C362_3.5 S4 ME4LB4	146	C362_3.5 P132 BE132MB4	144
532	157	2.5	3.3	5025	C512_3.3 S4 ME4LB4	162	C512_3.3 P132 BE132MB4	160
553	151	1.2	3.2	2102	C362_3.2 S4 ME4LB4	146	C362_3.2 P132 BE132MB4	144
655	128	1.5	2.7	2084	C362_2.7 S4 ME4LB4	146	C362_2.7 P132 BE132MB4	144
662	126	1.9	2.7	2412	C412_2.7 S4 ME4LB4	154	C412_2.7 P132 BE132MB4	152
669	125	2.9	2.6	4752	C512_2.6 S4 ME4LB4	162	C512_2.6 P132 BE132MB4	160

## 11 kW

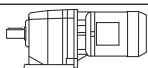



n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
7.2	13188	0.9	244.2	78795	C1004_244.2 S5 ME5SA4	196	C1004_244.2 P160 BE160M4	194
8.8	10780	1.1	199.6	78795	C1004_199.6 S5 ME5SA4	196	C1004_199.6 P160 BE160M4	194
9.5	10010	1.2	185.4	78795	C1004_185.4 S5 ME5SA4	196	C1004_185.4 P160 BE160M4	194
10.9	8754	1.4	162.1	78795	C1004_162.1 S5 ME5SA4	196	C1004_162.1 P160 BE160M4	194
11.7	8394	1.4	150.4	78795	C1003_150.4 S5 ME5SA4	196	C1003_150.4 P160 BE160M4	194
12.6	7794	1.4	139.7	78795	C1003_139.7 S5 ME5SA4	196	C1003_139.7 P160 BE160M4	194
13.2	7485	0.9	134.1	48297	C903_134.1 S5 ME5SA4	190	C903_134.1 P160 BE160M4	188
14.6	6725	1.8	120.5	78795	C1003_120.5 S5 ME5SA4	196	C1003_120.5 P160 BE160M4	194
15.1	6514	1.1	116.7	47092	C903_116.7 S5 ME5SA4	190	C903_116.7 P160 BE160M4	188
15.8	6244	1.9	111.9	78795	C1003_111.9 S5 ME5SA4	196	C1003_111.9 P160 BE160M4	194
16.5	5971	1.2	107.0	47277	C903_107.0 S5 ME5SA4	190	C903_107.0 P160 BE160M4	188
17.7	5569	2.2	99.8	78795	C1003_99.8 S5 ME5SA4	196	C1003_99.8 P160 BE160M4	194
18.3	5370	1.3	96.2	47092	C903_96.2 S5 ME5SA4	190	C903_96.2 P160 BE160M4	188
19.0	5171	2.3	92.7	78795	C1003_92.7 S5 ME5SA4	196	C1003_92.7 P160 BE160M4	194
20.0	4923	1.4	88.2	46999	C903_88.2 S5 ME5SA4	190	C903_88.2 P160 BE160M4	188
20.6	4774	2.5	85.6	78795	C1003_85.6 S5 ME5SA4	196	C1003_85.6 P160 BE160M4	194
21.7	4532	1.6	81.2	46999	C903_81.2 S5 ME5SA4	190	C903_81.2 P160 BE160M4	188
22.2	4433	2.7	79.4	78795	C1003_79.4 S5 ME5SA4	196	C1003_79.4 P160 BE160M4	194
23.7	4154	1.7	74.4	46535	C903_74.4 S5 ME5SA4	190	C903_74.4 P160 BE160M4	188
25.0	3934	0.9	70.5	29493	C803_70.5 S5 ME5SA4	184	C803_70.5 P160 BE160M4	182
27.3	3604	2.0	64.6	46350	C903_64.6 S5 ME5SA4	190	C903_64.6 P160 BE160M4	188
28.2	3488	1.1	62.5	30558	C803_62.5 S5 ME5SA4	184	C803_62.5 P160 BE160M4	182
29.8	3303	2.1	59.2	45423	C903_59.2 S5 ME5SA4	190	C903_59.2 P160 BE160M4	188
31	3197	1.2	57.3	31669	C803_57.3 S5 ME5SA4	184	C803_57.3 P160 BE160M4	182
32	3062	2.3	54.9	45238	C903_54.9 S5 ME5SA4	190	C903_54.9 P160 BE160M4	188
35	2807	2.4	50.3	44496	C903_50.3 S5 ME5SA4	190	C903_50.3 P160 BE160M4	188
37	2647	1.3	47.4	31021	C803_47.4 S5 ME5SA4	184	C803_47.4 P160 BE160M4	182

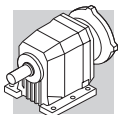


## 11 kW






n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
41	2427	1.5	43.5	30651	C803_43.5 S5 ME5SA4	184	C803_43.5 P160 BE160M4	182
41	2399	2.8	43.0	43569	C903_43.0 S5 ME5SA4	190	C903_43.0 P160 BE160M4	188
43	2302	0.9	41.3	19189	C703_41.3 S5 ME5SA4	178	C703_41.3 P160 BE160M4	176
45	2199	3.0	39.4	42735	C903_39.4 S5 ME5SA4	190	C903_39.4 P160 BE160M4	188
45	2229	1.3	39.1	28613	C802_39.1 S5 ME5SA4	184	C802_39.1 P160 BE160M4	182
50	2001	2.5	35.1	41715	C902_35.1 S5 ME5SA4	190	C902_35.1 P160 BE160M4	188
51	1981	1.1	34.7	17428	C702_34.7 S5 ME5SA4	178	C702_34.7 P160 BE160M4	176
56	1786	1.9	31.3	27780	C802_31.3 S5 ME5SA4	184	C802_31.3 P160 BE160M4	182
64	1580	1.3	27.7	16501	C702_27.7 S5 ME5SA4	178	C702_27.7 P160 BE160M4	176
66	1446	0.9	26.8	10328	C613_26.8 S5 ME5SA4	170	C613_26.8 P160 BE160M4	168
68	1479	2.3	25.9	27039	C802_25.9 S5 ME5SA4	184	C802_25.9 P160 BE160M4	182
71	1415	1.0	24.8	10145	C612_24.8 S5 ME5SA4	170	C612_24.8 P160 BE160M4	168
74	1365	2.4	24.0	26576	C802_24.0 S5 ME5SA4	184	C802_24.0 P160 BE160M4	182
77	1303	1.6	22.9	16315	C702_22.9 S5 ME5SA4	178	C702_22.9 P160 BE160M4	176
79	1274	1.0	22.4	9780	C612_22.4 S5 ME5SA4	170	C612_22.4 P160 BE160M4	168
79	1268	2.7	22.2	26298	C802_22.2 S5 ME5SA4	184	C802_22.2 P160 BE160M4	182
86	1170	2.8	20.5	25928	C802_20.5 S5 ME5SA4	184	C802_20.5 P160 BE160M4	182
90	1117	1.2	19.6	9871	C612_19.6 S5 ME5SA4	170	C612_19.6 P160 BE160M4	168
92	1099	1.9	19.3	16037	C702_19.3 S5 ME5SA4	178	C702_19.3 P160 BE160M4	176
100	1006	1.2	17.7	9780	C612_17.7 S5 ME5SA4	170	C612_17.7 P160 BE160M4	168
106	952	2.0	16.7	15574	C702_16.7 S5 ME5SA4	178	C702_16.7 P160 BE160M4	176
111	908	1.4	15.9	9780	C612_15.9 S5 ME5SA4	170	C612_15.9 P160 BE160M4	168
115	874	2.4	15.3	15574	C702_15.3 S5 ME5SA4	178	C702_15.3 P160 BE160M4	176
123	818	1.5	14.3	9597	C612_14.3 S5 ME5SA4	170	C612_14.3 P160 BE160M4	168
125	803	2.5	14.1	15203	C702_14.1 S5 ME5SA4	178	C702_14.1 P160 BE160M4	176
134	748	0.9	13.1	6202	C512_13.1 S5 ME5SA4	162	C512_13.1 P160 BE160M4	160
135	743	2.8	13.0	15203	C702_13.0 S5 ME5SA4	178	C702_13.0 P160 BE160M4	176
146	689	1.8	12.1	9414	C612_12.1 S5 ME5SA4	170	C612_12.1 P160 BE160M4	168
149	675	1.0	11.8	6211	C512_11.8 S5 ME5SA4	162	C512_11.8 P160 BE160M4	160
162	621	2.0	10.9	9231	C612_10.9 S5 ME5SA4	170	C612_10.9 P160 BE160M4	168
180	560	2.2	9.8	9058	C612_9.8 S5 ME5SA4	170	C612_9.8 P160 BE160M4	168
181	556	1.1	9.8	6101	C512_9.8 S5 ME5SA4	162	C512_9.8 P160 BE160M4	160
200	504	2.5	8.8	8857	C612_8.8 S5 ME5SA4	170	C612_8.8 P160 BE160M4	168
201	501	1.3	8.8	6056	C512_8.8 S5 ME5SA4	162	C512_8.8 P160 BE160M4	160
228	442	1.3	7.8	5937	C512_7.8 S5 ME5SA4	162	C512_7.8 P160 BE160M4	160
236	427	2.9	7.5	8582	C612_7.5 S5 ME5SA4	170	C612_7.5 P160 BE160M4	168
253	398	1.5	7.0	5864	C512_7.0 S5 ME5SA4	162	C512_7.0 P160 BE160M4	160
294	342	1.8	6.0	7924	C612_6.0 S5 ME5SA4	170	C612_6.0 P160 BE160M4	168
313	321	1.2	5.6	5363	C512_5.6 S5 ME5SA4	162	C512_5.6 P160 BE160M4	160
387	260	2.4	4.6	7458	C612_4.6 S5 ME5SA4	170	C612_4.6 P160 BE160M4	168
396	254	1.6	4.5	5162	C512_4.5 S5 ME5SA4	162	C512_4.5 P160 BE160M4	160
477	211	2.9	3.7	7093	C612_3.7 S5 ME5SA4	170	C612_3.7 P160 BE160M4	168
534	189	2.0	3.3	4870	C512_3.3 S5 ME5SA4	162	C512_3.3 P160 BE160M4	160
671	150	2.4	2.6	4633	C512_2.6 S5 ME5SA4	162	C512_2.6 P160 BE160M4	160

## 15 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
10.9	11817	1.0	162.1	74855	C1004_162.1 S5 ME5LA4	196	C1004_162.1 P160 BE160L4	194
11.8	11332	1.1	150.4	77219	C1003_150.4 S5 ME5LA4	196	C1003_150.4 P160 BE160L4	194
12.7	10522	1.1	139.7	77219	C1003_139.7 S5 ME5LA4	196	C1003_139.7 P160 BE160L4	194
14.7	9078	1.3	120.5	77683	C1003_120.5 S5 ME5LA4	196	C1003_120.5 P160 BE160L4	194
15.8	8430	1.4	111.9	77219	C1003_111.9 S5 ME5LA4	196	C1003_111.9 P160 BE160L4	194



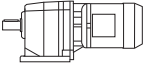




## 15 kW

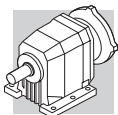
n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
17.7	7518	1.6	99.8	76663	C1003_99.8 S5 ME5LA4	196	C1003_99.8 P160 BE160L4	194
18.4	7250	1.0	96.2	42549	C903_96.2 S5 ME5LA4	190	C903_96.2 P160 BE160L4	188
19.1	6981	1.7	92.7	76385	C1003_92.7 S5 ME5LA4	196	C1003_92.7 P160 BE160L4	194
20.1	6646	1.1	88.2	42179	C903_88.2 S5 ME5LA4	190	C903_88.2 P160 BE160L4	188
20.7	6445	1.9	85.6	75551	C1003_85.6 S5 ME5LA4	196	C1003_85.6 P160 BE160L4	194
21.8	6118	1.2	81.2	41066	C903_81.2 S5 ME5LA4	190	C903_81.2 P160 BE160L4	188
22.3	5985	2.0	79.4	75087	C1003_79.4 S5 ME5LA4	196	C1003_79.4 P160 BE160L4	194
23.8	5608	1.3	74.4	41530	C903_74.4 S5 ME5LA4	190	C903_74.4 P160 BE160L4	188
25.5	5230	2.3	69.4	73697	C1003_69.4 S5 ME5LA4	196	C1003_69.4 P160 BE160L4	194
27.4	4865	1.5	64.6	41252	C903_64.6 S5 ME5LA4	190	C903_64.6 P160 BE160L4	188
27.5	4856	2.5	64.5	72862	C1003_64.5 S5 ME5LA4	196	C1003_64.5 P160 BE160L4	194
29.9	4460	1.6	59.2	41159	C903_59.2 S5 ME5LA4	190	C903_59.2 P160 BE160L4	188
31	4320	2.8	57.4	71750	C1003_57.4 S5 ME5LA4	196	C1003_57.4 P160 BE160L4	194
32	4134	1.7	54.9	41066	C903_54.9 S5 ME5LA4	190	C903_54.9 P160 BE160L4	188
33	4012	3.0	53.3	70637	C1003_53.3 S5 ME5LA4	196	C1003_53.3 P160 BE160L4	194
35	3789	1.8	50.3	40881	C903_50.3 S5 ME5LA4	190	C903_50.3 P160 BE160L4	188
37	3574	1.0	47.4	27502	C803_47.4 S5 ME5LA4	184	C803_47.4 P160 BE160L4	182
41	3276	1.1	43.5	28058	C803_43.5 S5 ME5LA4	184	C803_43.5 P160 BE160L4	182
41	3238	2.1	43.0	40881	C903_43.0 S5 ME5LA4	190	C903_43.0 P160 BE160L4	188
45	2968	2.2	39.4	39861	C903_39.4 S5 ME5LA4	190	C903_39.4 P160 BE160L4	188
45	3010	1.0	39.1	25280	C802_39.1 S5 ME5LA4	184	C802_39.1 P160 BE160L4	182
50	2701	1.9	35.1	39119	C902_35.1 S5 ME5LA4	190	C902_35.1 P160 BE160L4	188
56	2411	1.4	31.3	25465	C802_31.3 S5 ME5LA4	184	C802_31.3 P160 BE160L4	182
60	2265	2.4	29.4	38100	C902_29.4 S5 ME5LA4	190	C902_29.4 P160 BE160L4	188
64	2133	1.0	27.7	15203	C702_27.7 S5 ME5LA4	178	C702_27.7 P160 BE160L4	176
65	2091	2.4	27.2	37729	C902_27.2 S5 ME5LA4	190	C902_27.2 P160 BE160L4	188
68	1997	1.7	25.9	25095	C802_25.9 S5 ME5LA4	184	C802_25.9 P160 BE160L4	182
74	1843	1.8	24.0	24909	C802_24.0 S5 ME5LA4	184	C802_24.0 P160 BE160L4	182
77	1759	1.2	22.9	14276	C702_22.9 S5 ME5LA4	178	C702_22.9 P160 BE160L4	176
80	1712	2.0	22.2	24632	C802_22.2 S5 ME5LA4	184	C802_22.2 P160 BE160L4	182
86	1580	2.1	20.5	24261	C802_20.5 S5 ME5LA4	184	C802_20.5 P160 BE160L4	182
92	1484	1.4	19.3	14461	C702_19.3 S5 ME5LA4	178	C702_19.3 P160 BE160L4	176
98	1389	2.5	18.1	23891	C802_18.1 S5 ME5LA4	184	C802_18.1 P160 BE160L4	182
100	1358	0.9	17.7	8637	C612_17.7 S5 ME5LA4	170	C612_17.7 P160 BE160L4	168
106	1285	1.5	16.7	14276	C702_16.7 S5 ME5LA4	178	C702_16.7 P160 BE160L4	176
106	1282	2.5	16.7	23613	C802_16.7 S5 ME5LA4	184	C802_16.7 P160 BE160L4	182
111	1226	1.0	15.9	8546	C612_15.9 S5 ME5LA4	170	C612_15.9 P160 BE160L4	168
115	1180	1.8	15.3	14276	C702_15.3 S5 ME5LA4	178	C702_15.3 P160 BE160L4	176
119	1147	3.0	14.9	23150	C802_14.9 S5 ME5LA4	184	C802_14.9 P160 BE160L4	182
123	1104	1.1	14.3	8482	C612_14.3 S5 ME5LA4	170	C612_14.3 P160 BE160L4	168
126	1085	1.8	14.1	14183	C702_14.1 S5 ME5LA4	178	C702_14.1 P160 BE160L4	176
136	1003	2.0	13.0	14090	C702_13.0 S5 ME5LA4	178	C702_13.0 P160 BE160L4	176
146	930	1.3	12.1	8473	C612_12.1 S5 ME5LA4	170	C612_12.1 P160 BE160L4	168
158	863	2.3	11.2	13627	C702_11.2 S5 ME5LA4	178	C702_11.2 P160 BE160L4	176
163	838	1.5	10.9	8354	C612_10.9 S5 ME5LA4	170	C612_10.9 P160 BE160L4	168
173	785	2.5	10.2	13534	C702_10.2 S5 ME5LA4	178	C702_10.2 P160 BE160L4	176
180	756	1.7	9.8	8308	C612_9.8 S5 ME5LA4	170	C612_9.8 P160 BE160L4	168
186	733	2.7	9.5	13349	C702_9.5 S5 ME5LA4	178	C702_9.5 P160 BE160L4	176
200	680	1.8	8.8	8162	C612_8.8 S5 ME5LA4	170	C612_8.8 P160 BE160L4	168
201	676	0.9	8.8	5353	C512_8.8 S5 ME5LA4	162	C512_8.8 P160 BE160L4	160
228	596	1.0	7.8	5335	C512_7.8 S5 ME5LA4	162	C512_7.8 P160 BE160L4	160
236	576	2.2	7.5	8007	C612_7.5 S5 ME5LA4	170	C612_7.5 P160 BE160L4	168
253	538	1.1	7.0	5290	C512_7.0 S5 ME5LA4	162	C512_7.0 P160 BE160L4	160
263	519	2.4	6.7	7833	C612_6.7 S5 ME5LA4	170	C612_6.7 P160 BE160L4	168
295	462	1.3	6.0	7431	C612_6.0 S5 ME5LA4	170	C612_6.0 P160 BE160L4	168
314	433	0.9	5.6	4779	C512_5.6 S5 ME5LA4	162	C512_5.6 P160 BE160L4	160
389	351	1.8	4.6	7029	C612_4.6 S5 ME5LA4	170	C612_4.6 P160 BE160L4	168
397	343	1.2	4.5	4788	C512_4.5 S5 ME5LA4	162	C512_4.5 P160 BE160L4	160
478	285	2.2	3.7	6736	C612_3.7 S5 ME5LA4	170	C612_3.7 P160 BE160L4	168
535	255	1.5	3.3	4633	C512_3.3 S5 ME5LA4	162	C512_3.3 P160 BE160L4	160
628	217	2.8	2.8	6343	C612_2.8 S5 ME5LA4	170	C612_2.8 P160 BE160L4	168
673	202	1.8	2.6	4505	C512_2.6 S5 ME5LA4	162	C512_2.6 P160 BE160L4	160



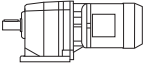





## 18.5 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
14.6	11208	1.1	120.5	72584			C1003_120.5 P180 BE180M4	194
15.8	10407	1.2	111.9	71008			C1003_111.9 P180 BE180M4	194
17.7	9282	1.3	99.8	71101			C1003_99.8 P180 BE180M4	194
19.0	8619	1.4	92.7	71101			C1003_92.7 P180 BE180M4	194
20.6	7957	1.5	85.6	70823			C1003_85.6 P180 BE180M4	194
21.7	7553	1.0	81.2	39583			C903_81.2 P180 BE180M4	188
22.2	7388	1.6	79.4	70545			C1003_79.4 P180 BE180M4	194
23.7	6923	1.0	74.4	39490			C903_74.4 P180 BE180M4	188
25.4	6457	1.9	69.4	69896			C1003_69.4 P180 BE180M4	194
27.3	6006	1.2	64.6	37358			C903_64.6 P180 BE180M4	188
27.4	5996	2.0	64.5	69340			C1003_64.5 P180 BE180M4	194
29.8	5506	1.3	59.2	37544			C903_59.2 P180 BE180M4	188
31	5334	2.2	57.4	68320			C1003_57.4 P180 BE180M4	194
32	5103	1.4	54.9	37729			C903_54.9 P180 BE180M4	188
33	4953	2.4	53.3	67764			C1003_53.3 P180 BE180M4	194
35	4678	1.5	50.3	37729			C903_50.3 P180 BE180M4	188
38	4299	2.7	46.2	66373			C1003_46.2 P180 BE180M4	194
41	3998	1.7	43.0	37636			C903_43.0 P180 BE180M4	188
41	3992	2.8	42.9	65632			C1003_42.9 P180 BE180M4	194
45	3664	1.8	39.4	37544			C903_39.4 P180 BE180M4	188
50	3334	1.5	35.1	36895			C902_35.1 P180 BE180M4	188
56	2977	1.2	31.3	23150			C802_31.3 P180 BE180M4	182
60	2796	2.0	29.4	36246			C902_29.4 P180 BE180M4	188
65	2581	2.0	27.2	35968			C902_27.2 P180 BE180M4	188
68	2465	1.4	25.9	23428			C802_25.9 P180 BE180M4	182
71	2359	2.6	24.8	35597			C902_24.8 P180 BE180M4	188
74	2276	1.4	24.0	23150			C802_24.0 P180 BE180M4	182
77	2177	2.6	22.9	35133			C902_22.9 P180 BE180M4	188
77	2171	1.0	22.9	13998			C702_22.9 P180 BE180M4	176
79	2113	1.6	22.2	23243			C802_22.2 P180 BE180M4	182
86	1951	1.7	20.5	23057			C802_20.5 P180 BE180M4	182
92	1832	1.1	19.3	13071			C702_19.3 P180 BE180M4	176
98	1715	2.0	18.1	22872			C802_18.1 P180 BE180M4	182
106	1587	1.2	16.7	12793			C702_16.7 P180 BE180M4	176
106	1583	2.0	16.7	22594			C802_16.7 P180 BE180M4	182
115	1457	1.4	15.3	12793			C702_15.3 P180 BE180M4	176
118	1417	2.4	14.9	22224			C802_14.9 P180 BE180M4	182
123	1363	0.9	14.3	7815			C612_14.3 P180 BE180M4	168
125	1339	1.5	14.1	12885			C702_14.1 P180 BE180M4	176
128	1308	2.5	13.8	21946			C802_13.8 P180 BE180M4	182
135	1238	1.7	13.0	12793			C702_13.0 P180 BE180M4	176
146	1149	1.1	12.1	7696			C612_12.1 P180 BE180M4	168
157	1065	1.9	11.2	12793			C702_11.2 P180 BE180M4	176
162	1034	1.2	10.9	7641			C612_10.9 P180 BE180M4	168
173	970	2.0	10.2	12700			C702_10.2 P180 BE180M4	176
180	933	1.3	9.8	7678			C612_9.8 P180 BE180M4	168
185	905	2.2	9.5	12607			C702_9.5 P180 BE180M4	176
200	840	1.5	8.8	7586			C612_8.8 P180 BE180M4	168
221	760	2.6	8.0	12515			C702_8.0 P180 BE180M4	176
236	711	1.8	7.5	7522			C612_7.5 P180 BE180M4	168
237	709	2.7	7.5	12422			C702_7.5 P180 BE180M4	176
262	640	2.0	6.7	7394			C612_6.7 P180 BE180M4	168
294	570	1.1	6.0	6901			C612_6.0 P180 BE180M4	168
387	433	1.4	4.6	6672			C612_4.6 P180 BE180M4	168
396	423	0.9	4.5	4286			C512_4.5 P180 BE180M4	160
477	351	1.8	3.7	6453			C612_3.7 P180 BE180M4	168
534	314	1.2	3.3	4332			C512_3.3 P180 BE180M4	160
626	268	2.3	2.8	6124			C612_2.8 P180 BE180M4	168
671	250	1.5	2.6	4195			C512_2.6 P180 BE180M4	160

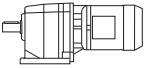





## 22 kW

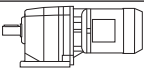



n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
15.8	12385	1.0	111.9	67300			C1003_111.9 P180 BE180L4	194
17.7	11045	1.1	99.8	65446			C1003_99.8 P180 BE180L4	194
19.1	10256	1.2	92.7	65724			C1003_92.7 P180 BE180L4	194
20.7	9468	1.3	85.6	65910			C1003_85.6 P180 BE180L4	194
22.3	8792	1.4	79.4	66002			C1003_79.4 P180 BE180L4	194
25.5	7684	1.6	69.4	65817			C1003_69.4 P180 BE180L4	194
27.4	7147	1.0	64.6	34577			C903_64.6 P180 BE180L4	188
27.5	7135	1.7	64.5	65632			C1003_64.5 P180 BE180L4	194
29.9	6552	1.1	59.2	34021			C903_59.2 P180 BE180L4	188
31	6347	1.9	57.4	65168			C1003_57.4 P180 BE180L4	194
32	6073	1.2	54.9	33372			C903_54.9 P180 BE180L4	188
33	5894	2.0	53.3	64705			C1003_53.3 P180 BE180L4	194
35	5567	1.2	50.3	34670			C903_50.3 P180 BE180L4	188
38	5116	2.3	46.2	63778			C1003_46.2 P180 BE180L4	194
41	4757	1.4	43.0	34763			C903_43.0 P180 BE180L4	188
41	4750	2.4	42.9	63129			C1003_42.9 P180 BE180L4	194
45	4361	1.5	39.4	34763			C903_39.4 P180 BE180L4	188
48	4088	2.7	36.9	61831			C1003_36.9 P180 BE180L4	194
50	3968	1.3	35.1	34670			C902_35.1 P180 BE180L4	188
52	3796	2.9	34.3	61089			C1003_34.3 P180 BE180L4	194
56	3542	1.0	31.3	23057			C802_31.3 P180 BE180L4	182
60	3271	2.6	29.6	59421			C1002_29.6 P180 BE180L4	194
60	3328	1.6	29.4	34392			C902_29.4 P180 BE180L4	188
65	3072	1.7	27.2	34206			C902_27.2 P180 BE180L4	188
68	2934	1.2	25.9	21298			C802_25.9 P180 BE180L4	182
71	2807	2.2	24.8	33928			C902_24.8 P180 BE180L4	188
74	2708	1.2	24.0	21946			C802_24.0 P180 BE180L4	182
77	2591	2.2	22.9	33743			C902_22.9 P180 BE180L4	188
80	2515	1.4	22.2	21761			C802_22.2 P180 BE180L4	182
86	2321	1.4	20.5	21668			C802_20.5 P180 BE180L4	182
87	2288	2.7	20.2	33187			C902_20.2 P180 BE180L4	188
92	2180	1.0	19.3	12692			C702_19.3 P180 BE180L4	176
95	2112	2.7	18.7	32816			C902_18.7 P180 BE180L4	188
98	2041	1.7	18.1	21576			C802_18.1 P180 BE180L4	182
106	1888	1.0	16.7	11495			C702_16.7 P180 BE180L4	176
106	1884	1.7	16.7	21391			C802_16.7 P180 BE180L4	182
115	1734	1.2	15.3	11495			C702_15.3 P180 BE180L4	176
119	1686	2.0	14.9	21205			C802_14.9 P180 BE180L4	182
126	1593	1.2	14.1	11773			C702_14.1 P180 BE180L4	176
129	1556	2.1	13.8	21020			C802_13.8 P180 BE180L4	182
136	1473	1.4	13.0	11773			C702_13.0 P180 BE180L4	176
146	1367	0.9	12.1	7221			C612_12.1 P180 BE180L4	168
147	1359	2.5	12.0	20835			C802_12.0 P180 BE180L4	182
158	1267	1.6	11.2	11958			C702_11.2 P180 BE180L4	176
160	1254	2.6	11.1	20465			C802_11.1 P180 BE180L4	182
163	1231	1.0	10.9	6928			C612_10.9 P180 BE180L4	168
173	1154	1.7	10.2	11866			C702_10.2 P180 BE180L4	176
180	1110	1.1	9.8	7047			C612_9.8 P180 BE180L4	168
186	1077	1.8	9.5	11866			C702_9.5 P180 BE180L4	176
200	1000	1.3	8.8	7001			C612_8.8 P180 BE180L4	168
221	905	2.1	8.0	11773			C702_8.0 P180 BE180L4	176
236	846	1.5	7.5	7029			C612_7.5 P180 BE180L4	168
237	843	2.3	7.5	11773			C702_7.5 P180 BE180L4	176
263	762	1.6	6.7	6946			C612_6.7 P180 BE180L4	168
283	707	2.6	6.3	11588			C702_6.3 P180 BE180L4	176
295	678	0.9	6.0	6581			C612_6.0 P180 BE180L4	168
303	661	2.7	5.9	11402			C702_5.9 P180 BE180L4	176
389	515	1.2	4.6	6316			C612_4.6 P180 BE180L4	168
478	418	1.5	3.7	6160			C612_3.7 P180 BE180L4	168
535	374	1.0	3.3	3967			C512_3.3 P180 BE180L4	160



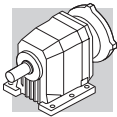
## 22 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
628	319	1.9	2.8	5895			C612_2.8 P180 BE180L4	168
673	297	1.2	2.6	3912			C512_2.6 P180 BE180L4	160

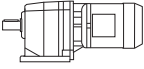



## 30 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
20.6	12890	0.9	85.6	59792			C1003_85.6 P200 IEC200L4	194
22.2	11969	1.0	79.4	57196			C1003_79.4 P200 IEC200L4	194
25.4	10460	1.1	69.4	59792			C1003_69.4 P200 IEC200L4	194
27.3	9713	1.2	64.5	58957			C1003_64.5 P200 IEC200L4	194
31	8640	1.4	57.4	65632			C1003_57.4 P200 IEC200L4	194
33	8023	1.5	53.3	63314			C1003_53.3 P200 IEC200L4	194
38	6964	1.7	46.2	63963			C1003_46.2 P200 IEC200L4	194
41	6476	1.0	43.0	28366			C903_43.0 P200 IEC200L4	188
41	6467	1.8	42.9	61738			C1003_42.9 P200 IEC200L4	194
45	5936	1.1	39.4	27439			C903_39.4 P200 IEC200L4	188
48	5565	2.0	36.9	66744			C1003_36.9 P200 IEC200L4	194
50	5402	0.9	35.1	30591			C902_35.1 P200 IEC200L4	188
51	5167	2.1	34.3	64519			C1003_34.3 P200 IEC200L4	194
60	4453	1.9	29.6	67764			C1002_29.6 P200 IEC200L4	194
60	4530	1.2	29.4	30220			C902_29.4 P200 IEC200L4	188
65	4182	1.2	27.2	32816			C902_27.2 P200 IEC200L4	188
71	3821	1.6	24.8	32909			C902_24.8 P200 IEC200L4	188
73	3709	2.7	24.1	60255			C1002_24.1 P200 IEC200L4	194
77	3527	1.6	22.9	33279			C902_22.9 P200 IEC200L4	188
79	3424	2.7	22.2	61367			C1002_22.2 P200 IEC200L4	194
79	3423	1.0	22.2	20094			C802_22.2 P200 IEC200L4	182
86	3160	1.0	20.5	20002			C802_20.5 P200 IEC200L4	182
87	3115	2.0	20.2	31333			C902_20.2 P200 IEC200L4	188
94	2875	2.0	18.7	33836			C902_18.7 P200 IEC200L4	188
98	2778	1.2	18.1	20742			C802_18.1 P200 IEC200L4	182
102	2664	2.3	17.3	27532			C902_17.3 P200 IEC200L4	188
106	2564	1.3	16.7	21113			C802_16.7 P200 IEC200L4	182
110	2459	2.3	16.0	28922			C902_16.0 P200 IEC200L4	188
118	2295	1.5	14.9	19076			C802_14.9 P200 IEC200L4	182
125	2169	0.9	14.1	10429			C702_14.1 P200 IEC200L4	176
127	2133	2.6	13.9	29201			C902_13.9 P200 IEC200L4	188
128	2118	1.5	13.8	19539			C802_13.8 P200 IEC200L4	182
135	2005	1.0	13.0	11124			C702_13.0 P200 IEC200L4	176
138	1968	2.8	12.8	28459			C902_12.8 P200 IEC200L4	188
146	1850	1.9	12.0	18983			C802_12.0 P200 IEC200L4	182
157	1725	1.2	11.2	28366			C902_11.2 P200 IEC200L4	188
159	1707	1.9	11.1	19539			C802_11.1 P200 IEC200L4	182
172	1571	1.2	10.2	11031			C702_10.2 P200 IEC200L4	176
183	1478	2.3	9.6	18613			C802_9.6 P200 IEC200L4	182
199	1364	2.4	8.9	19446			C802_8.9 P200 IEC200L4	182
220	1232	1.6	8.0	10753			C702_8.0 P200 IEC200L4	176
231	1174	2.7	7.6	18057			C802_7.6 P200 IEC200L4	182
236	1148	1.7	7.5	10197			C702_7.5 P200 IEC200L4	176
250	1083	2.9	7.0	17872			C802_7.0 P200 IEC200L4	182
281	963	1.9	6.3	10661			C702_6.3 P200 IEC200L4	176
301	900	2.0	5.9	10012			C702_5.9 P200 IEC200L4	176
385	704	2.2	4.6	10197			C702_4.6 P200 IEC200L4	176

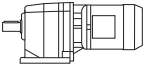



As informações técnicas devem ser considerados como indicativas, as configurações devem ser combinando os dados fornecidos pelos fabricantes de motores de potências nominais superiores a 22 kW.



## 37 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
25.4	12881	0.9	69.4	54322			C1003_69.4 P225 IEC225S4	194
27.4	11961	1.0	64.5	52005			C1003_64.5 P225 IEC225S4	194
31	10641	1.1	57.4	51263			C1003_57.4 P225 IEC225S4	194
33	9880	1.2	53.3	49409			C1003_53.3 P225 IEC225S4	194
38	8576	1.4	46.2	52468			C1003_46.2 P225 IEC225S4	194
41	7964	1.4	42.9	50614			C1003_42.9 P225 IEC225S4	194
45	7311	0.9	39.4	27717			C903_39.4 P225 IEC225S4	188
48	6853	1.6	36.9	52839			C1003_36.9 P225 IEC225S4	194
51	6363	1.7	34.3	51078			C1003_34.3 P225 IEC225S4	194
60	5484	1.5	29.6	57474			C1002_29.6 P225 IEC225S4	194
60	5579	1.0	29.4	26698			C902_29.4 P225 IEC225S4	188
65	5150	1.0	27.2	26883			C902_27.2 P225 IEC225S4	188
71	4705	1.3	24.8	27347			C902_24.8 P225 IEC225S4	188
73	4568	2.2	24.1	51170			C1002_24.1 P225 IEC225S4	194
77	4344	1.3	22.9	27625			C902_22.9 P225 IEC225S4	188
79	4217	2.2	22.2	52097			C1002_22.2 P225 IEC225S4	194
87	3835	1.6	20.2	22526			C902_20.2 P225 IEC225S4	188
87	3833	2.6	20.2	46814			C1002_20.2 P225 IEC225S4	194
94	3540	1.6	18.7	27903			C902_18.7 P225 IEC225S4	188
95	3538	2.8	18.7	49687			C1002_18.7 P225 IEC225S4	194
98	3421	1.0	18.1	16946			C802_18.1 P225 IEC225S4	182
102	3281	1.8	17.3	22712			C902_17.3 P225 IEC225S4	188
106	3158	1.0	16.7	17131			C802_16.7 P225 IEC225S4	182
110	3029	1.9	16.0	23731			C902_16.0 P225 IEC225S4	188
118	2826	1.2	14.9	14816			C802_14.9 P225 IEC225S4	182
127	2626	2.1	13.9	27532			C902_13.9 P225 IEC225S4	188
128	2609	1.2	13.8	17409			C802_13.8 P225 IEC225S4	182
138	2424	2.3	12.8	26790			C902_12.8 P225 IEC225S4	188
147	2278	1.5	12.0	17409			C802_12.0 P225 IEC225S4	182
157	2128	2.5	11.2	26976			C902_11.2 P225 IEC225S4	188
159	2103	1.5	11.1	17964			C802_11.1 P225 IEC225S4	182
170	1964	2.6	10.4	26327			C902_10.4 P225 IEC225S4	188
184	1820	1.9	9.6	17409			C802_9.6 P225 IEC225S4	182
196	1710	2.8	9.0	26234			C902_9.0 P225 IEC225S4	188
199	1680	1.9	8.9	18150			C802_8.9 P225 IEC225S4	182
212	1578	3.0	8.3	25678			C902_8.3 P225 IEC225S4	188
231	1445	2.2	7.6	17131			C802_7.6 P225 IEC225S4	182
251	1334	2.3	7.0	16668			C802_7.0 P225 IEC225S4	182
289	1158	2.5	6.1	16668			C802_6.1 P225 IEC225S4	182
313	1069	2.7	5.6	16112			C802_5.6 P225 IEC225S4	182

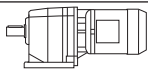



## 45 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
31	12907	0.9	57.4	49595			C1003_57.4 P225 IEC225M4	194
33	11985	1.0	53.3	49038			C1003_53.3 P225 IEC225M4	194
38	10403	1.1	46.2	45794			C1003_46.2 P225 IEC225M4	194
41	9660	1.2	42.9	44125			C1003_42.9 P225 IEC225M4	194
48	8313	1.3	36.9	45330			C1003_36.9 P225 IEC225M4	194
52	7719	1.4	34.3	43754			C1003_34.3 P225 IEC225M4	194
60	6652	1.3	29.6	49316			C1002_29.6 P225 IEC225M4	194
71	5708	1.1	24.8	24102			C902_24.8 P225 IEC225M4	188
73	5541	1.8	24.1	53859			C1002_24.1 P225 IEC225M4	194

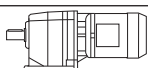



As informações técnicas devem ser considerados como indicativas, as configurações devem ser combinando os dados fornecidos pelos fabricantes de motores de potências nominais superiores a 22 kW.



## 45 kW

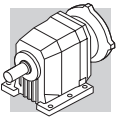
n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
77	5269	1.1	22.9	24287			C902_22.9 P225 IEC225M4	188
80	5115	1.8	22.2	54878			C1002_22.2 P225 IEC225M4	194
87	4653	1.3	20.2	23360			C902_20.2 P225 IEC225M4	188
88	4649	2.2	20.2	49224			C1002_20.2 P225 IEC225M4	194
95	4295	1.3	18.7	25214			C902_18.7 P225 IEC225M4	188
95	4291	2.3	18.7	47277			C1002_18.7 P225 IEC225M4	194
102	3980	1.5	17.3	20579			C902_17.3 P225 IEC225M4	188
107	3789	2.5	16.5	41808			C1002_16.5 P225 IEC225M4	194
111	3674	1.6	16.0	21599			C902_16.0 P225 IEC225M4	188
116	3498	2.7	15.2	40417			C1002_15.2 P225 IEC225M4	194
119	3428	1.0	14.9	15094			C802_14.9 P225 IEC225M4	182
128	3186	1.8	13.9	25585			C902_13.9 P225 IEC225M4	188
129	3164	1.0	13.8	15464			C802_13.8 P225 IEC225M4	182
131	3102	2.8	13.5	39954			C1002_13.5 P225 IEC225M4	194
138	2941	1.9	12.8	24936			C902_12.8 P225 IEC225M4	188
147	2763	1.2	12.0	15742			C802_12.0 P225 IEC225M4	182
158	2581	2.0	11.2	25400			C902_11.2 P225 IEC225M4	188
160	2551	1.3	11.1	16205			C802_11.1 P225 IEC225M4	182
171	2382	2.2	10.4	24844			C902_10.4 P225 IEC225M4	188
184	2208	1.6	9.6	16020			C802_9.6 P225 IEC225M4	182
196	2074	2.3	9.0	24936			C902_9.0 P225 IEC225M4	188
200	2038	1.6	8.9	16668			C802_8.9 P225 IEC225M4	182
213	1914	2.5	8.3	24380			C902_8.3 P225 IEC225M4	188
232	1753	1.8	7.6	16020			C802_7.6 P225 IEC225M4	182
242	1683	2.7	7.3	24380			C902_7.3 P225 IEC225M4	188
251	1618	1.9	7.0	15557			C802_7.0 P225 IEC225M4	182
262	1554	2.8	6.8	23917			C902_6.8 P225 IEC225M4	188
290	1405	2.1	6.1	15279			C802_6.1 P225 IEC225M4	182
314	1297	2.2	5.6	15742			C802_5.6 P225 IEC225M4	182

## 55 kW





n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
38	12682	0.9	46.2	44774			C1003_46.2 P250 IEC250M4	194
41	11776	1.0	42.9	45052			C1003_42.9 P250 IEC250M4	194
48	10133	1.1	36.9	42086			C1003_36.9 P250 IEC250M4	194
52	9409	1.2	34.3	40695			C1003_34.3 P250 IEC250M4	194
60	8109	1.0	29.6	43291			C1002_29.6 P250 IEC250M4	194
73	6755	1.5	24.1	44033			C1002_24.1 P250 IEC250M4	194
80	6235	1.5	22.2	44867			C1002_22.2 P250 IEC250M4	194
87	5671	1.1	20.2	19096			C902_20.2 P250 IEC250M4	188
88	5667	1.8	20.2	40232			C1002_20.2 P250 IEC250M4	194
95	5235	1.1	18.7	20579			C902_18.7 P250 IEC250M4	188
95	5231	1.9	18.7	44218			C1002_18.7 P250 IEC250M4	194
102	4851	1.2	17.3	16779			C902_17.3 P250 IEC250M4	188
107	4619	2.0	16.5	39119			C1002_16.5 P250 IEC250M4	194
111	4478	1.3	16.0	17613			C902_16.0 P250 IEC250M4	188
116	4264	2.2	15.2	37822			C1002_15.2 P250 IEC250M4	194
128	3883	1.4	13.9	23082			C902_13.9 P250 IEC250M4	188
131	3781	2.3	13.5	43106			C1002_13.5 P250 IEC250M4	194
138	3585	1.5	12.8	22433			C902_12.8 P250 IEC250M4	188
142	3490	2.5	12.5	41344			C1002_12.5 P250 IEC250M4	194
158	3146	1.7	11.2	21970			C902_11.2 P250 IEC250M4	188

As informações técnicas devem ser consideradas como indicativas, as configurações devem ser combinando os dados fornecidos pelos fabricantes de motores de potências nominais superiores a 22 kW.

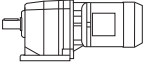







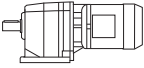



## 55 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
162	3064	2.7	10.9	42086			C1002_10.9 P250 IEC250M4	194
171	2904	1.8	10.4	21506			C902_10.4 P250 IEC250M4	188
175	2828	2.9	10.1	39305			C1002_10.1 P250 IEC250M4	194
196	2528	1.9	9.0	23360			C902_9.0 P250 IEC250M4	188
213	2333	2.0	8.3	22804			C902_8.3 P250 IEC250M4	188
242	2052	2.2	7.3	23082			C902_7.3 P250 IEC250M4	188
262	1894	2.3	6.8	22619			C902_6.8 P250 IEC250M4	188
316	1570	2.6	5.6	22433			C902_5.6 P250 IEC250M4	188
342	1450	2.7	5.2	22248			C902_5.2 P250 IEC250M4	188

## 75 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
74	9205	1.1	24.1	30962			C1002_24.1 P280 IEC280S4	194
80	8497	1.1	22.2	31611			C1002_22.2 P280 IEC280S4	194
88	7723	1.3	20.2	29849			C1002_20.2 P280 IEC280S4	194
95	7129	1.4	18.7	34670			C1002_18.7 P280 IEC280S4	194
108	6294	1.5	16.5	36246			C1002_16.5 P280 IEC280S4	194
117	5810	1.6	15.2	36895			C1002_15.2 P280 IEC280S4	194
132	5153	1.7	13.5	37173			C1002_13.5 P280 IEC280S4	194
143	4756	1.8	12.5	37636			C1002_12.5 P280 IEC280S4	194
162	4175	2.0	10.9	37729			C1002_10.9 P280 IEC280S4	194
176	3854	2.1	10.1	37822			C1002_10.1 P280 IEC280S4	194
196	3455	2.2	9.0	37914			C1002_9.0 P280 IEC280S4	194
213	3189	2.4	8.4	37636			C1002_8.4 P280 IEC280S4	194
251	2699	2.6	7.1	36802			C1002_7.1 P280 IEC280S4	194
272	2491	2.8	6.5	36431			C1002_6.5 P280 IEC280S4	194

## 90 kW

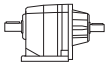

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
74	11037	0.9	24.1	36060			C1002_24.1 P280 IEC280M4	194
88	9260	1.1	20.2	28366			C1002_20.2 P280 IEC280M4	194
95	8547	1.2	18.7	32909			C1002_18.7 P280 IEC280M4	194
108	7547	1.2	16.5	34392			C1002_16.5 P280 IEC280M4	194
117	6966	1.3	15.2	35041			C1002_15.2 P280 IEC280M4	194
132	6178	1.4	13.5	35319			C1002_13.5 P280 IEC280M4	194
143	5703	1.5	12.5	35690			C1002_12.5 P280 IEC280M4	194
162	5006	1.6	10.9	35782			C1002_10.9 P280 IEC280M4	194
176	4621	1.8	10.1	35875			C1002_10.1 P280 IEC280M4	194
196	4143	1.9	9.0	35690			C1002_9.0 P280 IEC280M4	194
213	3824	2.0	8.4	35597			C1002_8.4 P280 IEC280M4	194
251	3236	2.2	7.1	35041			C1002_7.1 P280 IEC280M4	194
272	2987	2.3	6.5	34855			C1002_6.5 P280 IEC280M4	194
333	2442	2.6	5.3	33928			C1002_5.3 P280 IEC280M4	194
361	2254	2.8	4.9	33650			C1002_4.9 P280 IEC280M4	194

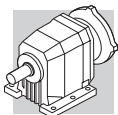
As informações técnicas devem ser considerados como indicativas, as configurações devem ser combinando os dados fornecidos pelos fabricantes de motores de potências nominais superiores a 22 kW.



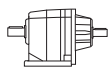



**C 12** **100 Nm**

	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
C 12 2_2.8	2.8	643	34	2.4	904	720	429	39	1.8	1040	830	126
C 12 2_3.2	3.2	563	37	2.3	876	720	375	42	1.7	1008	830	
C 12 2_3.7	3.7	486	39	2.1	876	729	324	44	1.6	1008	841	
C 12 2_4.3	4.3	419	41	1.9	813	729	279	47	1.5	935	841	
C 12 2_4.9	4.9	367	44	1.8	803	729	245	50	1.4	924	841	
C 12 2_5.6	5.6	321	47	1.7	767	738	214	54	1.3	882	851	
C 12 2_6.2	6.2	290	49	1.6	740	756	194	56	1.2	851	872	
C 12 2_7.6	7.6	237	51	1.3	1187	1403	158	59	1.0	1300	1619	
C 12 2_8.8	8.8	205	54	1.2	1187	1476	136	62	0.93	1300	1703	
C 12 2_10.1	10.1	178	58	1.1	1187	1530	119	66	0.87	1300	1766	
C 12 2_11.9	11.9	151	62	1.0	1187	1603	101	70	0.78	1300	1850	
C 12 2_13.4	13.4	134	64	0.95	1187	1676	90	74	0.73	1300	1934	
C 12 2_15.4	15.4	117	67	0.86	1187	1758	78	77	0.66	1300	2000	
C 12 2_17.2	17.2	105	70	0.81	1187	1822	70	80	0.61	1300	2000	
C 12 2_18.4	18.4	98	72	0.77	1187	1822	65	82	0.59	1300	2000	
C 12 2_20.6	20.6	87	75	0.73	1187	1822	58	86	0.55	1300	2000	
C 12 2_23.2	23.2	78	78	0.67	1187	1822	52	89	0.51	1300	2000	
C 12 2_25.4	25.4	71	81	0.63	1187	1822	47	89	0.46	1300	2000	
C 12 2_29.5	29.5	61	85	0.57	1187	1880	41	98	0.44	1300	2000	
C 12 2_32.8	32.8	55	83	0.50	1187	1970	37	90	0.36	1300	2000	
C 12 2_37.0	37.0	49	83	0.44	1187	2000	32	90	0.32	1300	2000	
C 12 2_42.3	42.3	43	92	0.43	1187	2000	28	100	0.31	1300	2000	
C 12 2_47.6	47.6	38	85	0.35	1187	2000	25	90	0.25	1300	2000	
C 12 2_55.2	55.2	33	89	0.32	1187	2000	22	90	0.22	1300	2000	
C 12 2_66.2	66.2	27	86	0.26	1187	2000	18.1	90	0.18	1300	2000	



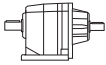

# C 22 200 Nm

	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
C 22 2_2.7	2.7	667	74	5.4	—	1334	444	84	4.1	—	1534	134
C 22 2_3.3	3.3	545	78	4.7	—	1426	364	89	3.6	—	1640	
C 22 2_3.7	3.7	486	83	4.4	—	1472	324	95	3.4	—	1692	
C 22 2_4.3	4.3	419	86	4.0	—	1508	279	99	3.0	—	1734	
C 22 2_4.8	4.8	375	92	3.8	—	1581	250	105	2.9	—	1818	
C 22 2_5.6	5.6	321	94	3.3	—	1636	214	105	2.5	—	1881	
C 22 2_6.1	6.1	295	96	3.1	—	1737	197	110	2.4	—	1997	
C 22 2_7.1	7.1	254	119	3.3	1305	1819	169	137	2.5	1487	2091	
C 22 2_8.7	8.7	207	127	2.9	1314	1910	138	145	2.2	1497	2197	
C 22 2_9.6	9.6	188	133	2.8	1342	2011	125	153	2.1	1529	2312	
C 22 2_11.1	11.1	162	141	2.5	1277	2075	108	161	1.9	1455	2386	
C 22 2_12.4	12.4	145	147	2.4	1305	2175	97	168	1.8	1487	2501	
C 22 2_14.5	14.5	124	154	2.1	1250	2239	83	177	1.6	1424	2575	
C 22 2_15.8	15.8	114	161	2.0	1213	2349	76	184	1.5	1382	2701	
C 22 2_18.1	18.1	99	168	1.8	1149	2422	66	193	1.4	1309	2785	
C 22 2_20.0	20.0	90	175	1.7	1149	2532	60	200	1.3	1309	2911	
C 22 2_21.5	21.5	84	178	1.6	1094	2577	56	200	1.2	1246	2964	
C 22 2_24.3	24.3	74	184	1.5	1149	2715	49	200	1.1	1309	3121	
C 22 2_27.2	27.2	66	184	1.3	1231	2843	44	200	0.97	1403	3269	
C 22 2_29.6	29.6	61	184	1.2	1241	2989	41	200	0.89	1413	3437	
C 22 2_33.1	33.1	54	184	1.1	1277	3108	36	200	0.80	1455	3573	
C 22 2_36.8	36.8	49	185	1.0	1287	3300	33	200	0.72	1466	3794	
C 22 2_43.3	43.3	42	185	0.85	1480	3610	27.7	190	0.58	1686	4151	
C 22 2_48.6	48.6	37	150	0.61	1599	4022	24.7	160	0.44	1822	4624	
C 22 2_54.7	54.7	33	150	0.54	1627	4204	21.9	160	0.39	1853	4835	
C 22 2_63.3	63.3	28.4	125	0.39	1673	4570	19.0	135	0.28	1906	5000	
C 22 3_60.0	60.0	30.0	180	0.61	1130	4113	20.0	190	0.43	1288	4730	
C 22 3_65.3	65.3	27.6	200	0.62	1167	4268	18.4	200	0.41	1300	4908	
C 22 3_74.8	74.8	24.1	200	0.54	1167	4387	16.0	200	0.36	1300	5000	
C 22 3_82.6	82.6	21.8	200	0.49	1195	4570	14.5	200	0.33	1300	5000	
C 22 3_88.5	88.5	20.3	200	0.46	1195	4570	13.6	200	0.31	1300	5000	
C 22 3_100.2	100.2	18.0	200	0.40	1195	4570	12.0	200	0.27	1300	5000	
C 22 3_112.0	112.0	16.1	200	0.36	1195	4570	10.7	200	0.24	1300	5000	
C 22 3_122.2	122.2	14.7	200	0.33	1195	4570	9.8	200	0.22	1300	5000	
C 22 3_136.5	136.5	13.2	200	0.30	1195	4700	8.8	200	0.20	1300	5000	
C 22 3_151.7	151.7	11.9	200	0.27	1220	4980	7.9	200	0.18	1300	5000	
C 22 3_178.5	178.5	10.1	200	0.23	1260	5000	6.7	200	0.15	1300	5000	
C 22 3_200.7	200.7	9.0	175	0.18	1280	5000	6.0	195	0.13	1300	5000	
C 22 3_225.8	225.8	8.0	170	0.15	1300	5000	5.3	195	0.12	1300	5000	
C 22 3_261.0	261.0	6.9	142	0.11	1300	5000	4.6	160	0.08	1300	5000	

(—) Entre em contato com o nosso departamento de assistência técnica e informe os dados da carga radial (sentido de rotação, orientação e posição)



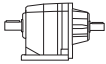

# C 32 300 Nm

	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
C 32 2_2.9	2.9	621	119	8.2	869	1990	414	137	6.2	982	2281	142
C 32 2_3.4	3.4	529	127	7.4	832	2091	353	145	5.6	941	2396	
C 32 2_3.7	3.7	486	138	7.4	693	2118	324	155	5.5	784	2428	
C 32 2_4.5	4.5	400	140	6.2	896	2293	267	158	4.6	1014	2628	
C 32 2_5.0	5.0	360	142	5.7	1016	2384	240	162	4.3	1150	2733	
C 32 2_5.7	5.7	316	142	5.0	1155	2531	211	163	3.8	1306	2901	
C 32 2_6.3	6.3	286	150	4.7	1340	2650	190	163	3.4	1515	3037	
C 32 2_7.2	7.2	250	184	5.1	2033	2742	167	210	3.9	2200	3142	
C 32 2_8.5	8.5	212	192	4.5	2033	2916	141	220	3.4	2200	3342	
C 32 2_9.3	9.3	194	202	4.3	2033	2989	129	231	3.3	2200	3426	
C 32 2_11.2	11.2	161	212	3.8	2033	3191	107	243	2.9	2200	3657	
C 32 2_12.3	12.3	146	225	3.6	2033	3265	98	258	2.8	2200	3742	
C 32 2_14.1	14.1	128	231	3.2	2033	3439	85	264	2.5	2200	3941	
C 32 2_15.6	15.6	115	248	3.2	2033	3503	77	284	2.4	2200	4015	
C 32 2_18.2	18.2	99	253	2.8	2033	3732	66	289	2.1	2200	4278	
C 32 2_20.1	20.1	90	271	2.7	2033	3815	60	300	2.0	2200	4372	
C 32 2_22.9	22.9	79	271	2.3	2033	4035	52	300	1.7	2200	4624	
C 32 2_25.1	25.1	72	276	2.2	2033	4191	48	300	1.6	2200	4803	
C 32 2_26.9	26.9	67	276	2.0	2033	4310	45	300	1.5	2200	4940	
C 32 2_29.8	29.8	60	276	1.8	2033	4512	40	300	1.3	2200	5171	
C 32 2_33.1	33.1	54	276	1.7	2033	4723	36	300	1.2	2200	5413	
C 32 2_36.1	36.1	50	280	1.5	2033	4906	33	300	1.1	2200	5500	
C 32 2_40.7	40.7	44	290	1.4	2033	5044	29.5	300	1.0	2200	5500	
C 32 2_45.3	45.3	40	300	1.3	2033	5044	26.5	300	0.88	2200	5500	
C 32 2_52.4	52.4	34	300	1.1	2033	5044	22.9	300	0.76	2200	5500	
C 32 2_59.4	59.4	30	205	0.68	2033	5500	20.2	220	0.49	2200	5500	
C 32 2_66.8	66.8	26.9	205	0.61	2033	5500	18.0	220	0.44	2200	5500	
C 32 3_74.7	74.7	24.1	280	0.76	1081	5500	16.1	290	0.52	1223	5500	
C 32 3_82.6	82.6	21.8	300	0.74	1146	5500	14.5	300	0.49	1296	5500	
C 32 3_94.2	94.2	19.1	300	0.65	1173	5500	12.7	300	0.43	1300	5500	
C 32 3_103.3	103.3	17.4	300	0.59	1201	5500	11.6	300	0.39	1300	5500	
C 32 3_110.6	110.6	16.3	300	0.55	1201	5500	10.8	300	0.37	1300	5500	
C 32 3_122.4	122.4	14.7	300	0.50	1201	5500	9.8	300	0.33	1300	5500	
C 32 3_136.0	136.0	13.2	300	0.45	1201	5500	8.8	300	0.30	1300	5500	
C 32 3_148.4	148.4	12.1	300	0.41	1201	5500	8.1	300	0.27	1300	5500	
C 32 3_167.4	167.4	10.8	300	0.36	1201	5500	7.2	300	0.24	1300	5500	
C 32 3_186.0	186.0	9.7	300	0.33	1201	5500	6.5	300	0.22	1300	5500	
C 32 3_215.6	215.6	8.3	300	0.28	1240	5500	5.6	300	0.19	1300	5500	
C 32 3_244.2	244.2	7.4	240	0.20	1280	5500	4.9	260	0.14	1300	5500	
C 32 3_274.7	274.7	6.6	240	0.18	1300	5500	4.4	260	0.13	1300	5500	



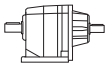

# C 36

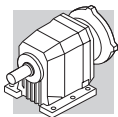
# 450 Nm

	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
C 36 2_2.7	2.7	667	157	11.6	1057	2047	444	178	8.7	1204	2354	150
C 36 2_3.2	3.2	563	164	10.2	1140	2175	375	185	7.7	1298	2501	
C 36 2_3.5	3.5	514	171	9.7	1213	2230	343	194	7.3	1382	2564	
C 36 2_4.2	4.2	429	178	8.4	1296	2395	286	200	6.3	1476	2754	
C 36 2_4.6	4.6	391	185	8.0	1351	2468	261	200	5.8	1539	2838	
C 36 2_5.3	5.3	340	185	6.9	1516	2623	226	200	5.0	1728	3016	
C 36 2_5.8	5.8	310	185	6.3	1829	2760	207	200	4.6	2084	3174	
C 36 2_6.8	6.8	265	329	9.6	2040	2477	176	372	7.2	2324	2848	
C 36 2_8.0	8.0	225	338	8.4	2068	2660	150	380	6.3	2356	3058	
C 36 2_8.8	8.8	205	352	7.9	2086	2742	136	380	5.7	2377	3153	
C 36 2_10.6	10.6	170	352	6.6	2132	3007	113	380	4.7	2429	3458	
C 36 2_11.7	11.7	154	352	6.0	2178	3162	103	380	4.3	2481	3636	
C 36 2_13.3	13.3	135	352	5.2	2206	3354	90	380	3.8	2513	3857	
C 36 2_14.8	14.8	122	360	4.8	2242	3555	81	380	3.4	2555	4088	
C 36 2_17.2	17.2	105	370	4.3	2261	3839	70	380	2.9	2576	4414	
C 36 2_19.0	19.0	95	380	4.0	2298	4022	63	380	2.6	2618	4624	
C 36 3_22.1	22.1	81	398	3.7	2665	4104	54	450	2.8	3000	4719	
C 36 3_26.2	26.2	69	407	3.2	2674	4396	46	450	2.3	3000	5055	
C 36 3_28.7	28.7	63	417	2.9	2693	4552	42	450	2.1	3000	5234	
C 36 3_34.6	34.6	52	417	2.4	2711	4954	35	450	1.8	3000	5696	
C 36 3_38.1	38.1	47	435	2.3	2729	5201	31	450	1.6	3000	5980	
C 36 3_43.5	43.5	41	440	2.1	2739	5530	27.6	450	1.4	3000	6359	
C 36 3_48.2	48.2	37	450	1.9	2748	5786	24.9	450	1.3	3000	6500	
C 36 3_56.2	56.2	32	450	1.6	2748	5941	21.4	450	1.1	3000	6500	
C 36 3_62.0	62.0	29.0	450	1.5	2757	5941	19.4	450	0.98	3000	6500	
C 36 3_70.8	70.8	25.4	450	1.3	2757	5941	16.9	450	0.86	3000	6500	
C 36 3_77.6	77.6	23.2	450	1.2	2757	5941	15.5	450	0.78	3000	6500	
C 36 3_83.1	83.1	21.7	450	1.1	2757	5941	14.4	450	0.73	3000	6500	
C 36 3_91.9	91.9	19.6	450	0.99	2757	6200	13.1	450	0.66	3000	6500	
C 36 3_102.2	102.2	17.6	450	0.89	2757	6400	11.7	450	0.59	3000	6500	
C 36 3_111.5	111.5	16.1	450	0.82	2757	6500	10.8	450	0.55	3000	6500	
C 36 3_125.8	125.8	14.3	450	0.73	2757	6500	9.5	450	0.48	3000	6500	
C 36 3_139.8	139.8	12.9	450	0.65	2757	6500	8.6	450	0.43	3000	6500	
C 36 3_162.0	162.0	11.1	450	0.56	2757	6500	7.4	450	0.38	3000	6500	
C 36 3_183.5	183.5	9.8	450	0.50	2757	6500	6.5	450	0.33	3000	6500	
C 36 3_206.4	206.4	8.7	450	0.44	2757	6500	5.8	450	0.29	3000	6500	
C 36 4_230.9	230.9	7.8	450	0.41	1195	6500	5.2	450	0.27	1300	6500	
C 36 4_255.0	255.0	7.1	450	0.37	1195	6500	4.7	450	0.25	1300	6500	
C 36 4_290.9	290.9	6.2	450	0.32	1210	6500	4.1	450	0.22	1300	6500	
C 36 4_318.9	318.9	5.6	450	0.30	1230	6500	3.8	450	0.20	1300	6500	
C 36 4_341.7	341.7	5.3	450	0.28	1240	6500	3.5	450	0.18	1300	6500	
C 36 4_377.9	377.9	4.8	450	0.25	1260	6500	3.2	450	0.17	1300	6500	
C 36 4_420.2	420.2	4.3	450	0.22	1270	6500	2.9	450	0.15	1300	6500	
C 36 4_458.4	458.4	3.9	450	0.21	1280	6500	2.6	450	0.14	1300	6500	
C 36 4_517.2	517.2	3.5	450	0.18	1300	6500	2.3	450	0.12	1300	6500	
C 36 4_574.7	574.7	3.1	450	0.16	1300	6500	2.1	450	0.11	1300	6500	
C 36 4_665.9	665.9	2.7	450	0.14	1300	6500	1.8	450	0.09	1300	6500	
C 36 4_754.2	754.2	2.4	450	0.12	1300	6500	1.6	450	0.08	1300	6500	
C 36 4_848.5	848.5	2.1	450	0.11	1300	6500	1.4	450	0.07	1300	6500	

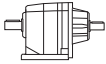



# C 41 600 Nm

	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
C 41 2_2.7	2.7	667	245	18.0	1279	1875	444	245	12.0	1461	2173	158
C 41 2_3.6	3.6	500	255	14.1	1518	2175	333	255	9.4	1734	2521	
C 41 2_4.7	4.7	383	260	11.0	1849	2484	255	260	7.3	2113	2880	
C 41 2_6.0	6.0	300	260	8.6	2208	2830	200	260	5.7	2522	3281	
C 41 2_6.4	6.4	281	319	9.9	2631	2967	188	361	7.5	3006	3439	
C 41 2_7.1	7.1	254	329	9.2	2742	3112	169	371	6.9	3132	3608	
C 41 2_8.6	8.6	209	357	8.2	2668	3276	140	403	6.2	3048	3798	
C 41 2_9.6	9.6	188	361	7.5	2788	3458	125	408	5.6	3185	4009	
C 41 2_11.2	11.2	161	389	6.9	2677	3567	107	439	5.2	3058	4136	
C 41 2_12.4	12.4	145	394	6.3	2824	3767	97	445	4.7	3227	4368	
C 41 2_14.2	14.2	127	412	5.8	2742	3913	85	465	4.3	3132	4537	
C 41 2_15.8	15.8	114	417	5.2	2870	4131	76	471	3.9	3279	4790	
C 41 2_17.8	17.8	101	444	5.0	2806	4213	67	500	3.7	3206	4885	
C 41 2_19.8	19.8	91	449	4.5	2926	4450	61	500	3.3	3342	5159	
C 41 2_22.6	22.6	80	463	4.1	2861	4650	53	500	2.9	3269	5391	
C 41 2_25.0	25.0	72	463	3.7	2972	4932	48	500	2.6	3395	5718	
C 41 2_28.3	28.3	64	463	3.2	2926	5196	42	500	2.3	3342	6024	
C 41 2_31.4	31.4	57	463	2.9	3036	5496	38	500	2.1	3468	6372	
C 41 2_33.4	33.4	54	465	2.8	2962	5615	36	500	2.0	3384	6509	
C 41 2_37.1	37.1	49	470	2.5	3054	5933	32	500	1.8	3489	6879	
C 41 2_44.8	44.8	40	500	2.2	3220	6370	26.8	500	1.5	3500	7000	
C 41 3_28.5	28.5	63	519	3.7	3220	4932	42	586	2.8	3500	5718	
C 41 3_31.2	31.2	58	528	3.4	3220	5160	38	596	2.6	3500	5982	
C 41 3_36.8	36.8	49	556	3.1	3220	5424	33	600	2.2	3500	6288	
C 41 3_40.3	40.3	45	556	2.8	3220	5715	29.8	600	2.0	3500	6625	
C 41 3_47.0	47.0	38	556	2.4	3220	6115	25.5	600	1.7	3500	7000	
C 41 3_51.5	51.5	35	556	2.2	3220	6370	23.3	600	1.6	3500	7000	
C 41 3_58.7	58.7	31	556	1.9	3220	6370	20.4	600	1.4	3500	7000	
C 41 3_64.3	64.3	28.0	560	1.8	3220	6370	18.7	600	1.3	3500	7000	
C 41 3_74.4	74.4	24.2	590	1.6	3220	6370	16.1	600	1.1	3500	7000	
C 41 3_81.5	81.5	22.1	600	1.5	3220	6370	14.7	600	0.99	3500	7000	
C 41 3_93.3	93.3	19.3	600	1.3	3220	6700	12.9	600	0.87	3500	7000	
C 41 3_102.3	102.3	17.6	600	1.2	3220	7000	11.7	600	0.79	3500	7000	
C 41 3_110.1	110.1	16.3	600	1.1	3220	7000	10.9	600	0.74	3500	7000	
C 41 3_120.6	120.6	14.9	600	1.0	3220	7000	10.0	600	0.67	3500	7000	
C 41 3_132.9	132.9	13.5	600	0.92	3220	7000	9.0	600	0.61	3500	7000	
C 41 3_145.6	145.6	12.4	600	0.84	3220	7000	8.2	600	0.56	3500	7000	
C 41 3_164.1	164.1	11.0	600	0.74	3220	7000	7.3	600	0.49	3500	7000	
C 41 3_179.9	179.9	10.0	600	0.68	3220	7000	6.7	600	0.45	3500	7000	
C 41 3_190.8	190.8	9.4	600	0.64	3220	7000	6.3	600	0.42	3500	7000	
C 41 3_209.1	209.1	8.6	600	0.58	3220	7000	5.7	600	0.39	3500	7000	
C 41 4_239.9	239.9	7.5	600	0.52	1757	7000	5.0	600	0.35	2007	7000	
C 41 4_263.0	263.0	6.8	600	0.48	1766	7000	4.6	600	0.32	2018	7000	
C 41 4_304.2	304.2	5.9	600	0.41	1794	7000	3.9	600	0.28	2049	7000	
C 41 4_333.4	333.4	5.4	600	0.38	1803	7000	3.6	600	0.25	2060	7000	
C 41 4_381.8	381.8	4.7	600	0.33	1812	7000	3.1	600	0.22	2070	7000	
C 41 4_418.5	418.5	4.3	600	0.30	1822	7000	2.9	600	0.20	2081	7000	
C 41 4_450.2	450.2	4.0	600	0.28	1831	7000	2.7	600	0.19	2091	7000	
C 41 4_493.5	493.5	3.6	600	0.25	1840	7000	2.4	600	0.17	2102	7000	
C 41 4_543.5	543.5	3.3	600	0.23	1840	7000	2.2	600	0.15	2102	7000	
C 41 4_595.8	595.8	3.0	600	0.21	1849	7000	2.0	600	0.14	2113	7000	
C 41 4_671.3	671.3	2.7	600	0.19	1858	7000	1.8	600	0.12	2123	7000	
C 41 4_735.9	735.9	2.4	600	0.17	1858	7000	1.6	600	0.11	2123	7000	
C 41 4_780.4	780.4	2.3	600	0.16	1868	7000	1.5	600	0.11	2134	7000	
C 41 4_855.5	855.5	2.1	600	0.15	1868	7000	1.4	600	0.10	2134	7000	



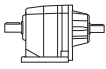

# C 51 1000 Nm

	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
C 51 2_2.6	2.6	692	367	28	1229	3830	462	400	20	1462	4431	166
C 51 2_3.3	3.3	545	385	23	1459	4177	364	420	16.8	1736	4832	
C 51 2_4.5	4.5	400	399	17.6	1777	4724	267	435	12.8	2115	5465	
C 51 2_5.6	5.6	321	399	14.1	2122	5253	214	435	10.3	2525	6077	
C 51 2_7.0	7.0	257	578	16.4	2528	5472	171	661	12.5	3009	6330	
C 51 2_7.8	7.8	231	587	14.9	2634	5682	154	671	11.4	3135	6573	
C 51 2_8.8	8.8	205	628	14.2	2564	5882	136	719	10.8	3051	6805	
C 51 2_9.8	9.8	184	628	12.7	2679	6156	122	719	9.7	3188	7121	
C 51 2_11.8	11.8	153	706	11.9	2572	6457	102	800	9.0	3061	7469	
C 51 2_13.1	13.1	137	688	10.4	2714	6813	92	800	8.1	3230	7881	
C 51 2_15.0	15.0	120	734	9.7	2634	7086	80	800	7.1	3135	8197	
C 51 2_16.6	16.6	108	729	8.7	2758	7415	72	800	6.4	3282	8577	
C 51 2_18.9	18.9	95	734	7.7	2696	7861	63	800	5.6	3209	9094	
C 51 2_21.0	21.0	86	729	6.9	2811	8226	57	800	5.0	3345	9516	
C 51 2_23.4	23.4	77	735	6.2	2749	8628	51	800	4.5	3272	9980	
C 51 2_25.9	25.9	69	729	5.6	2855	9020	46	800	4.1	3398	10000	
C 51 2_29.8	29.8	60	795	5.3	2811	9120	40	800	3.6	3345	10000	
C 51 2_33.0	33.0	55	775	4.7	2917	9120	36	800	3.2	3472	10000	
C 51 2_36.4	36.4	49	750	4.1	2846	9120	33	800	2.9	3387	10000	
C 51 2_40.4	40.4	45	795	3.9	2935	9120	30	800	2.6	3493	10000	
C 51 2_43.1	43.1	42	730	3.4	2900	9380	28	800	2.5	3451	10000	
C 51 2_47.8	47.8	38	800	3.3	2961	9530	25	800	2.2	3500	10000	
C 51 2_51.4	51.4	35	665	2.6	2997	10000	23	725	1.9	3500	10000	
C 51 2_57.0	57.0	32	745	2.6	2988	10000	21	795	1.8	3500	10000	
C 51 3_21.8	21.8	83	830	7.7	3094	7980	55	949	5.9	3500	9231	
C 51 3_23.9	23.9	75	844	7.2	3094	8308	50	965	5.5	3500	9611	
C 51 3_27.4	27.4	66	889	6.6	3094	8637	44	1000	4.9	3500	9991	
C 51 3_30.1	30.1	60	917	6.2	3094	8947	40	1000	4.5	3500	10000	
C 51 3_37.0	37.0	49	917	5.0	3094	9120	32	1000	3.7	3500	10000	
C 51 3_40.5	40.5	44	917	4.6	3094	9120	29.6	1000	3.3	3500	10000	
C 51 3_46.7	46.7	39	917	4.0	3094	9120	25.7	1000	2.9	3500	10000	
C 51 3_51.2	51.2	35	920	3.6	3094	9390	23.4	1000	2.6	3500	10000	
C 51 3_59.0	59.0	31	970	3.3	3094	9780	20.3	1000	2.3	3500	10000	
C 51 3_64.6	64.6	27.9	1000	3.1	3094	10000	18.6	1000	2.1	3500	10000	
C 51 3_72.9	72.9	24.7	1000	2.8	3094	10000	16.5	1000	1.9	3500	10000	
C 51 3_79.9	79.9	22.5	1000	2.5	3094	10000	15.0	1000	1.7	3500	10000	
C 51 3_93.0	93.0	19.4	1000	2.2	3094	10000	12.9	1000	1.5	3500	10000	
C 51 3_101.8	101.8	17.7	1000	2.0	3094	10000	11.8	1000	1.3	3500	10000	
C 51 3_113.6	113.6	15.8	1000	1.8	3094	10000	10.6	1000	1.2	3500	10000	
C 51 3_124.4	124.4	14.5	1000	1.6	3094	10000	9.6	1000	1.1	3500	10000	
C 51 3_134.6	134.6	13.4	1000	1.5	3094	10000	8.9	1000	1.0	3500	10000	
C 51 3_147.4	147.4	12.2	1000	1.4	3094	10000	8.1	1000	0.92	3500	10000	
C 51 3_160.5	160.5	11.2	1000	1.3	3094	10000	7.5	1000	0.84	3500	10000	
C 51 3_175.8	175.8	10.2	1000	1.2	3094	10000	6.8	1000	0.77	3500	10000	
C 51 3_197.9	197.9	9.1	1000	1.0	3094	10000	6.1	1000	0.68	3500	10000	
C 51 3_216.7	216.7	8.3	1000	0.94	3094	10000	5.5	1000	0.62	3500	10000	
C 51 4_240.9	240.9	7.5	1000	0.87	1945	10000	5.0	1000	0.58	2200	10000	
C 51 4_263.8	263.8	6.8	1000	0.79	1945	10000	4.5	1000	0.53	2200	10000	
C 51 4_297.8	297.8	6.0	1000	0.70	1945	10000	4.0	1000	0.47	2200	10000	
C 51 4_326.1	326.1	5.5	1000	0.64	1945	10000	3.7	1000	0.43	2200	10000	
C 51 4_379.6	379.6	4.7	1000	0.55	1945	10000	3.2	1000	0.37	2200	10000	
C 51 4_415.7	415.7	4.3	1000	0.50	2200	10000	2.9	1000	0.34	2200	10000	
C 51 4_463.9	463.9	3.9	1000	0.45	2200	10000	2.6	1000	0.30	2200	10000	
C 51 4_508.0	508.0	3.5	1000	0.41	2200	10000	2.4	1000	0.27	2200	10000	
C 51 4_549.7	549.7	3.3	1000	0.38	2200	10000	2.2	1000	0.25	2200	10000	
C 51 4_602.0	602.0	3.0	1000	0.35	2200	10000	2.0	1000	0.23	2200	10000	
C 51 4_655.4	655.4	2.7	1000	0.32	2200	10000	1.8	1000	0.21	2200	10000	
C 51 4_717.7	717.7	2.5	1000	0.29	2200	10000	1.7	1000	0.19	2200	10000	
C 51 4_808.0	808.0	2.2	1000	0.26	2200	10000	1.5	1000	0.17	2200	10000	
C 51 4_884.9	884.9	2	1000	0.24	2200	10000	1.4	1000	0.16	2200	10000	





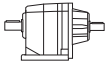

# C 61 1600 Nm

	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
C 61 2_2.8	2.8	643	510	36	652	5420	429	576	27	810	6256	180
C 61 2_3.7	3.7	486	533	29	1465	6032	324	602	22	1820	6963	
C 61 2_4.6	4.6	391	575	25	1821	6517	261	628	18.1	2262	7522	
C 61 2_6.0	6.0	300	579	19.2	2287	7266	200	654	14.4	2840	8387	
C 61 2_6.7	6.7	269	1048	31.0	2414	6453	179	1183	23.4	2998	7448	
C 61 2_7.5	7.5	240	1159	30.7	2456	6499	160	1309	23.1	3051	7501	
C 61 2_8.8	8.8	205	1159	26.1	2524	7029	136	1309	19.7	3135	8113	
C 61 2_9.8	9.8	184	1251	25.3	2821	7175	122	1350	18.2	3503	8282	
C 61 2_10.9	10.9	165	1251	22.8	2530	7504	110	1350	16.4	3093	8662	
C 61 2_12.1	12.1	149	1251	20.5	3049	7979	99	1350	14.8	3787	9210	
C 61 2_14.3	14.3	126	1251	17.4	3041	8619	84	1350	12.5	3777	9949	
C 61 2_15.9	15.9	113	1251	15.6	3202	9131	75	1350	11.2	3977	10539	
C 61 2_17.7	17.7	102	1251	14.0	3134	9506	68	1350	10.1	3892	10972	
C 61 2_19.6	19.6	92	1300	13.2	3295	10054	61	1350	9.1	4092	11605	
C 61 2_22.4	22.4	80	1251	11.1	3227	10602	54	1350	8.0	4008	12238	
C 61 2_24.8	24.8	73	1350	10.8	3371	11242	48	1350	7.2	4187	12977	
C 61 2_27.4	27.4	66	1300	9.4	3286	11699	44	1350	6.5	4082	13504	
C 61 2_30.4	30.4	59	1350	8.8	3430	12339	39	1350	5.9	4261	14243	
C 61 2_34.2	34.2	53	1165	6.8	3464	13253	35	1283	5.0	4303	15298	
C 61 2_38.0	38.0	47	1280	6.7	3473	13527	32	1350	4.7	4313	15614	
C 61 3_26.8	26.8	67	1330	10.1	3981	11334	45	1502	7.6	4700	13082	
C 61 3_29.4	29.4	61	1358	9.4	3981	11791	41	1534	7.0	4700	13610	
C 61 3_33.0	33.0	55	1414	8.7	3981	12156	36	1597	6.5	4700	14032	
C 61 3_36.1	36.1	50	1441	8.1	3981	12613	33	1600	6.0	4700	14559	
C 61 3_43.4	43.4	41	1483	6.9	3981	13527	27.6	1600	5.0	4700	15614	
C 61 3_47.6	47.6	38	1483	6.3	3981	14167	25.2	1600	4.5	4700	16000	
C 61 3_53.5	53.5	34	1483	5.6	3981	14624	22.4	1600	4.0	4700	16000	
C 61 3_58.6	58.6	31	1483	5.1	3981	14624	20.5	1600	3.7	4700	16000	
C 61 3_67.7	67.7	26.6	1483	4.4	3981	14624	17.7	1600	3.2	4700	16000	
C 61 3_74.2	74.2	24.3	1535	4.2	3981	14624	16.2	1600	2.9	4700	16000	
C 61 3_83.0	83.0	21.7	1600	3.9	3981	14624	14.5	1600	2.6	4700	16000	
C 61 3_91.0	91.0	19.8	1600	3.6	3981	15200	13.2	1600	2.4	4700	16000	
C 61 3_103.6	103.6	17.4	1600	3.1	3981	16000	11.6	1600	2.1	4700	16000	
C 61 3_113.6	113.6	15.8	1600	2.9	3981	16000	10.6	1600	1.9	4700	16000	
C 61 3_128.1	128.1	14.1	1600	2.5	3981	16000	9.4	1600	1.7	4700	16000	
C 61 3_140.5	140.5	12.8	1600	2.3	3981	16000	8.5	1600	1.5	4700	16000	
C 61 3_150.0	150.0	12.0	1600	2.2	3981	16000	8.0	1600	1.4	4700	16000	
C 61 3_164.5	164.5	10.9	1600	2.0	3981	16000	7.3	1600	1.3	4700	16000	
C 61 3_178.6	178.6	10.1	1600	1.8	3981	16000	6.7	1600	1.2	4700	16000	
C 61 3_195.8	195.8	9.2	1600	1.7	3981	16000	6.1	1600	1.1	4700	16000	
C 61 4_217.4	217.4	8.3	1600	1.5	2965	16000	5.5	1600	1.0	3500	16000	
C 61 4_238.3	238.3	7.6	1600	1.4	2965	16000	5.0	1600	0.94	3500	16000	
C 61 4_275.3	275.3	6.5	1600	1.2	2965	16000	4.4	1600	0.81	3500	16000	
C 61 4_301.7	301.7	6.0	1600	1.1	2965	16000	4.0	1600	0.74	3500	16000	
C 61 4_337.7	337.7	5.3	1600	<b>0.99</b>	2965	16000	3.6	1600	0.66	3500	16000	
C 61 4_370.1	370.1	4.9	1600	0.91	2965	16000	3.2	1600	0.60	3500	16000	
C 61 4_421.5	421.5	4.3	1600	0.80	2965	16000	2.8	1600	0.53	3500	16000	
C 61 4_462.0	462.0	3.9	1600	0.73	2965	16000	2.6	1600	0.48	3500	16000	
C 61 4_521.1	521.1	3.5	1600	0.64	2965	16000	2.3	1600	0.43	3500	16000	
C 61 4_571.2	571.2	3.2	1600	0.59	2965	16000	2.1	1600	0.39	3500	16000	
C 61 4_610.1	610.1	3.0	1600	0.55	2965	16000	2.0	1600	0.37	3500	16000	
C 61 4_668.8	668.8	2.7	1600	0.50	2965	16000	1.8	1600	0.33	3500	16000	
C 61 4_726.3	726.3	2.5	1600	0.46	2965	16000	1.7	1600	0.31	3500	16000	
C 61 4_796.1	796.1	2.3	1600	0.42	2965	16000	1.5	1600	0.28	3500	16000	



# C 70

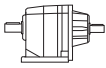

# 2300 Nm

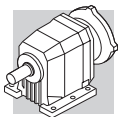
	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
C 70 2_4.6	4.6	391	1574	68	—	6582	261	1780	51	—	7441	180
C 70 2_5.9	5.9	305	1759	59	—	6480	203	1950	44	—	7326	
C 70 2_6.3	6.3	286	1806	57	2030	7648	190	2042	43	2846	8646	
C 70 2_7.5	7.5	240	1806	48	—	7787	160	2042	36	—	8803	
C 70 2_8.0	8.0	225	1945	48	2061	8232	150	2199	36	2889	9306	
C 70 2_9.5	9.5	189	1852	39	—	9187	126	2094	29	671	10386	
C 70 2_10.2	10.2	176	1945	38	3451	10012	118	2199	29	4837	11318	
C 70 2_11.2	11.2	161	1852	33	826	10475	107	2094	25	1158	11842	
C 70 2_13.0	13.0	138	2050	31	4323	11958	92	2100	21	6059	13519	
C 70 2_14.1	14.1	128	1945	27	1100	11495	85	2150	20	1385	12995	
C 70 2_15.3	15.3	118	2100	27.2	4524	13256	78	2100	18.2	6341	14986	
C 70 2_16.7	16.7	108	1898	22.6	1814	13256	72	2050	16.2	2543	14986	
C 70 2_19.3	19.3	93	2100	21.6	4632	15110	62	2100	14.4	6492	17082	
C 70 2_22.9	22.9	79	2100	18.2	4678	16686	52	2100	12.1	6557	18864	
C 70 2_27.7	27.7	65	2100	15.0	4725	18447	43	2100	10.0	6622	20855	
C 70 2_34.7	34.7	52	2100	12.0	4771	20579	35	2100	8.0	6687	23266	
C 70 3_41.3	41.3	44	2130	10.5	5404	21136	29.1	2300	7.5	7000	23894	
C 70 3_44.7	44.7	40	2130	9.7	5404	22063	26.8	2300	7.0	7000	24942	
C 70 3_52.2	52.2	34	2130	8.3	5404	23175	23.0	2300	6.0	7000	25000	
C 70 3_56.5	56.5	32	2130	7.6	5404	23175	21.2	2300	5.5	7000	25000	
C 70 3_65.9	65.9	27.3	2200	6.8	5404	23175	18.2	2300	4.7	7000	25000	
C 70 3_71.3	71.3	25.2	2200	6.3	5404	23175	16.8	2300	4.4	7000	25000	
C 70 3_81.4	81.4	22.1	2300	5.7	5404	23175	14.7	2300	3.8	7000	25000	
C 70 3_88.2	88.2	20.4	2300	5.3	5404	23600	13.6	2300	3.5	7000	25000	
C 70 3_103.8	103.8	17.3	2300	4.5	5404	25000	11.6	2300	3.0	7000	25000	
C 70 3_112.4	112.4	16.0	2300	4.1	5404	25000	10.7	2300	2.8	7000	25000	
C 70 3_126.8	126.8	14.2	2300	3.7	5404	25000	9.5	2300	2.5	7000	25000	
C 70 3_137.4	137.4	13.1	2300	3.4	5404	25000	8.7	2300	2.3	7000	25000	
C 70 3_150.3	150.3	12.0	2300	3.1	5404	25000	8.0	2300	2.1	7000	25000	
C 70 3_162.8	162.8	11.1	2300	2.9	5404	25000	7.4	2300	1.9	7000	25000	
C 70 3_179.2	179.2	10.0	2300	2.6	5404	25000	6.7	2300	1.7	7000	25000	
C 70 3_194.1	194.1	9.3	2300	2.4	5404	25000	6.2	2300	1.6	7000	25000	
C 70 3_220.9	220.9	8.1	2250	2.1	5404	25000	5.4	2300	1.4	7000	25000	
C 70 3_239.3	239.3	7.5	2300	1.9	5404	25000	5.0	2300	1.3	7000	25000	
C 70 4_251.3	251.3	7.2	2300	1.9	2023	25000	4.8	2300	1.3	2835	25000	
C 70 4_272.2	272.2	6.6	2300	1.8	2046	25000	4.4	2300	1.2	2867	25000	
C 70 4_317.9	317.9	5.7	2300	1.5	2046	25000	3.8	2300	1.0	2867	25000	
C 70 4_344.3	344.3	5.2	2300	1.4	2061	25000	3.5	2300	0.93	2889	25000	
C 70 4_409.4	409.4	4.4	2300	1.2	2061	25000	2.9	2300	0.78	2889	25000	
C 70 4_443.5	443.5	4.1	2300	1.1	2084	25000	2.7	2300	0.72	2921	25000	
C 70 4_512.0	512.0	3.5	2300	0.94	2070	25000	2.3	2300	0.63	2900	25000	
C 70 4_554.7	554.7	3.2	2300	0.87	2092	25000	2.2	2300	0.58	2932	25000	
C 70 4_606.8	606.8	3.0	2300	0.79	2084	25000	2.0	2300	0.53	2921	25000	
C 70 4_657.3	657.3	2.7	2300	0.73	2100	25000	1.8	2300	0.49	2943	25000	
C 70 4_736.0	736.0	2.4	2300	0.65	2090	25000	1.6	2300	0.44	2921	25000	
C 70 4_797.3	797.3	2.3	2300	0.60	2110	25000	1.5	2300	0.40	2943	25000	
C 70 4_922.6	922.6	2.0	2300	0.52	2100	25000	1.3	2300	0.35	2932	25000	
C 70 4_999.5	999.5	1.8	2300	0.48	2110	25000	1.2	2300	0.32	2954	25000	
C 70 4_1069	1069	1.7	2300	0.45	2100	25000	1.1	2300	0.30	2943	25000	
C 70 4_1158	1158	1.6	2300	0.42	2162	25000	1.0	2300	0.28	3030	25000	
C 70 4_1362	1362	1.3	2300	0.35	2162	25000	0.88	2300	0.24	3030	25000	
C 70 4_1476	1476	1.2	2300	0.33	2162	25000	0.81	2300	0.22	3030	25000	

(—) Entre em contato com o nosso departamento de assistência técnica e informe os dados da carga radial (sentido de rotação, orientação e posição)



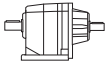

# C 80 4000 Nm

	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
C 80 2_5.6	5.6	321	2874	102	489	11390	214	3246	77	730	12878	180
C 80 2_6.1	6.1	295	2920	95	978	11760	197	3298	72	1460	13297	
C 80 2_7.0	7.0	257	3105	88	645	11945	171	3500	66	963	13506	
C 80 2_7.6	7.6	237	3152	82	1134	12316	158	3560	62	1693	13925	
C 80 2_8.9	8.9	202	3245	72	794	13427	135	3500	52	1185	15182	
C 80 2_9.6	9.6	188	3430	71	978	12871	125	3700	51	1460	14553	
C 80 2_11.1	11.1	162	3245	58	1383	15835	108	3500	42	2063	17904	
C 80 2_12.0	12.0	150	3430	57	1553	15372	100	3700	41	2317	17380	
C 80 2_13.8	13.8	130	3245	47	1652	18335	87	3500	34	2465	20731	
C 80 2_14.9	14.9	121	3430	46	1815	17872	81	3700	33	2708	20207	
C 80 2_16.7	16.7	108	3245	39	2014	20650	72	3500	28	3005	23348	
C 80 2_18.1	18.1	99	3430	38	2170	20372	66	3700	27	3237	23034	
C 80 2_20.5	20.5	88	3291	32	2170	22965	59	3550	23	3237	25966	
C 80 2_22.2	22.2	81	3430	31	2411	23057	54	3700	22	3597	26070	
C 80 2_24.0	24.0	75	3291	27	2255	25002	50	3550	19.6	3364	28269	
C 80 2_25.9	25.9	69	3430	26	2489	25187	46	3700	18.9	3714	28478	
C 80 2_31.3	31.3	58	3430	22	2645	27780	38	3700	15.6	3946	31410	
C 80 2_39.1	39.1	46	2966	15.1	3820	32410	31	3200	10.8	5353	35000	
C 80 3_43.5	43.5	41	3523	16.4	5610	32225	27.6	3979	12.4	7000	35000	
C 80 3_47.4	47.4	38	3523	15.1	5660	32410	25.3	3979	11.3	7000	35000	
C 80 3_57.3	57.3	31	3708	13.1	5620	32410	20.9	4000	9.4	7000	35000	
C 80 3_62.5	62.5	28.8	3708	12.0	5670	32410	19.2	4000	8.6	7000	35000	
C 80 3_70.5	70.5	25.5	3708	10.7	5620	32410	17.0	4000	7.7	7000	35000	
C 80 3_76.9	76.9	23.4	3708	9.8	5670	32410	15.6	4000	7.0	7000	35000	
C 80 3_89.3	89.3	20.2	3900	8.9	5620	32410	13.4	4000	6.1	7000	35000	
C 80 3_97.4	97.4	18.5	3900	8.1	5670	35000	12.3	4000	5.5	7000	35000	
C 80 3_109.5	109.5	16.4	4000	7.4	5630	35000	11.0	4000	4.9	7000	35000	
C 80 3_119.5	119.5	15.1	4000	6.8	5680	35000	10.0	4000	4.5	7000	35000	
C 80 3_136.7	136.7	13.2	4000	5.9	5660	35000	8.8	4000	4.0	7000	35000	
C 80 3_149.1	149.1	12.1	4000	5.4	5700	35000	8.0	4000	3.6	7000	35000	
C 80 3_169.0	169.0	10.7	4000	4.8	5680	35000	7.1	4000	3.2	7000	35000	
C 80 3_184.4	184.4	9.8	4000	4.4	5720	35000	6.5	4000	2.9	7000	35000	
C 80 3_197.9	197.9	9.1	4000	4.1	5710	35000	6.1	4000	2.7	7000	35000	
C 80 3_215.8	215.8	8.3	4000	3.8	5730	35000	5.6	4000	2.5	7000	35000	
C 80 4_261.9	261.9	6.9	4000	3.2	1850	35000	4.6	4000	2.1	2613	35000	
C 80 4_285.7	285.7	6.3	4000	2.9	1890	35000	4.2	4000	2.0	2656	35000	
C 80 4_334.3	334.3	5.4	4000	2.5	1880	35000	3.6	4000	1.7	2645	35000	
C 80 4_364.7	364.7	4.9	4000	2.3	1920	35000	3.3	4000	1.5	2687	35000	
C 80 4_417.5	417.5	4.3	4000	2.0	1910	35000	2.9	4000	1.3	2677	35000	
C 80 4_455.4	455.4	4.0	4000	1.8	1950	35000	2.6	4000	1.2	2719	35000	
C 80 4_529.3	529.3	3.4	4000	1.6	1940	35000	2.3	4000	1.1	2698	35000	
C 80 4_577.4	577.4	3.1	4000	1.5	1970	35000	2.1	4000	0.97	2740	35000	
C 80 4_664.3	664.3	2.7	4000	1.3	1960	35000	1.8	4000	0.84	2719	35000	
C 80 4_724.7	724.7	2.5	4000	1.2	1990	35000	1.7	4000	0.77	2761	35000	
C 80 4_783.4	783.4	2.3	4000	1.1	1970	35000	1.5	4000	0.71	2740	35000	
C 80 4_854.6	854.6	2.1	4000	0.98	2000	35000	1.4	4000	0.65	2772	35000	
C 80 4_945.7	945.7	1.9	4000	0.89	1980	35000	1.3	4000	0.59	2751	35000	
C 80 4_1032	1032	1.7	4000	0.81	2010	35000	1.2	4000	0.54	2783	35000	
C 80 4_1168	1168	1.5	4000	0.72	1980	35000	1.0	4000	0.48	2751	35000	
C 80 4_1274	1274	1.4	4000	0.66	2020	35000	0.94	4000	0.44	2793	35000	
C 80 4_1358	1358	1.3	4000	0.62	1990	35000	0.88	4000	0.41	2761	35000	
C 80 4_1481	1481	1.2	4000	0.57	2030	35000	0.81	4000	0.38	2793	35000	



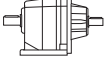

# C 90

# 7200 Nm

	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
C 90 2_5.2	5.2	346	3986	152	1700	14647	231	4502	115	2348	16558	
C 90 2_5.6	5.6	321	4079	145	3281	14832	214	4607	109	4599	16768	
C 90 2_6.8	6.8	265	4403	128	1860	15203	176	4973	97	2310	17187	
C 90 2_7.3	7.3	247	4496	122	3470	15481	164	5078	92	4718	17502	
C 90 2_8.3	8.3	217	4728	113	2010	15852	145	5340	85	2700	17921	
C 90 2_9.0	9.0	200	4820	106	3660	16223	133	5444	80	5107	18340	
C 90 2_10.4	10.4	173	5145	98	990	16130	115	5811	74	1244	18235	
C 90 2_11.2	11.2	161	5238	93	2750	16501	107	5916	70	3744	18654	
C 90 2_12.8	12.8	141	5516	86	648	16871	94	6230	64	909	19074	
C 90 2_13.9	13.9	129	5608	80	2700	17335	86	6334	60	3484	19598	
C 90 2_16.0	16.0	113	5747	71	733	19282	75	6200	51	1028	21798	
C 90 2_17.3	17.3	104	6026	69	1698	18355	69	6550	50	2380	20750	
C 90 2_18.7	18.7	96	5747	61	1158	22526	64	6200	44	1623	25466	
C 90 2_20.2	20.2	89	6118	60	1668	20858	59	6600	43	2337	23580	
C 90 2_22.9	22.9	79	5747	50	2110	25585	52	6200	36	2921	28925	
C 90 2_24.8	24.8	73	6118	49	2578	25307	48	6600	35	3614	28610	
C 90 2_27.2	27.2	66	5099	37	6160	29849	44	5500	27	8461	33746	
C 90 2_29.4	29.4	61	5469	37	6560	29664	41	5900	27	8797	33536	
C 90 2_35.1	35.1	51	5006	28	8569	33650	34	5400	20	12010	38042	
C 90 3_39.4	39.4	46	6582	34	10800	30498	30	7200	25	14823	34479	
C 90 3_43.0	43.0	42	6674	31	10800	31518	27.9	7200	23	14932	35632	
C 90 3_50.3	50.3	36	6800	27	10800	34299	23.9	7200	19.3	14932	38776	
C 90 3_54.9	54.9	33	7000	26	10900	35504	21.9	7200	17.7	15000	40138	
C 90 3_59.2	59.2	30	7100	24	10800	37080	20.3	7200	16.4	15000	41920	
C 90 3_64.6	64.6	27.9	7200	23	10900	38285	18.6	7200	15.1	15000	43282	
C 90 3_74.4	74.4	24.2	7100	19.3	10900	41159	16.1	7200	13.1	15000	46531	
C 90 3_81.2	81.2	22.2	7200	18.0	10900	42549	14.8	7200	12.0	15000	48103	
C 90 3_88.2	88.2	20.4	7100	16.3	11000	44403	13.6	7200	11.0	15000	50199	
C 90 3_96.2	96.2	18.7	7200	15.2	11000	45794	12.5	7200	10.1	15000	51771	
C 90 3_107.0	107.0	16.8	7100	13.4	11000	48297	11.2	7200	9.1	15000	54601	
C 90 3_116.7	116.7	15.4	7200	12.5	11000	49780	10.3	7200	8.3	15000	56278	
C 90 3_134.1	134.1	13.4	7100	10.7	11000	53117	8.9	7200	7.3	15000	60000	
C 90 3_146.3	146.3	12.3	7200	10.0	11000	54693	8.2	7200	6.7	15000	60000	
C 90 3_157.8	157.8	11.4	7100	9.1	11000	55620	7.6	7200	6.2	15000	60000	
C 90 3_172.1	172.1	10.5	7200	8.5	11000	55620	7.0	7200	5.7	15000	60000	
C 90 4_212.4	212.4	8.5	7200	7.1	911	60000	5.6	7200	4.7	1277	60000	
C 90 4_231.7	231.7	7.8	7200	6.5	1204	60000	5.2	7200	4.3	1688	60000	
C 90 4_268.5	268.5	6.7	7200	5.6	1189	60000	4.5	7200	3.7	1666	60000	
C 90 4_292.9	292.9	6.1	7200	5.1	1451	60000	4.1	7200	3.4	2034	60000	
C 90 4_339.0	339.0	5.3	7200	4.4	1328	60000	3.5	7200	3.0	1861	60000	
C 90 4_369.8	369.8	4.9	7200	4.1	1583	60000	3.2	7200	2.7	2218	60000	
C 90 4_419.0	419.0	4.3	7200	3.6	1459	60000	2.9	7200	2.4	2045	60000	
C 90 4_457.1	457.1	3.9	7200	3.3	1706	60000	2.6	7200	2.2	2391	60000	
C 90 4_534.2	534.2	3.4	7200	2.8	1613	60000	2.2	7200	1.9	2261	60000	
C 90 4_582.8	582.8	3.1	7200	2.6	1752	60000	2.1	7200	1.7	2456	60000	
C 90 4_652.8	652.8	2.8	7200	2.3	1668	60000	1.8	7200	1.5	2337	60000	
C 90 4_712.2	712.2	2.5	7200	2.1	1768	60000	1.7	7200	1.4	2478	60000	
C 90 4_773.6	773.6	2.3	7200	1.9	1737	60000	1.6	7200	1.3	2435	60000	
C 90 4_844.0	844.0	2.1	7200	1.8	1783	60000	1.4	7200	1.2	2499	60000	
C 90 4_922.3	922.3	2.0	7200	1.6	1745	60000	1.3	7200	1.1	2445	60000	
C 90 4_1006	1006	1.8	7200	1.5	1791	60000	1.2	7200	1.0	2510	60000	
C 90 4_1137	1137	1.6	7200	1.3	1752	60000	1.1	7200	0.88	2456	60000	
C 90 4_1240	1240	1.5	7200	1.2	1722	60000	1.0	7200	0.81	2413	60000	

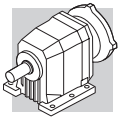


# C 100 12000 Nm

	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
C 100 2_4.9	4.9	367	6304	255	3161	23453	245	7120	192	4196	26514	198
C 100 2_5.3	5.3	340	6443	241	4120	23917	226	7277	182	5469	27038	
C 100 2_6.5	6.5	277	6999	214	3294	25029	185	7905	161	4373	28296	
C 100 2_7.1	7.1	254	7092	198	4395	25863	169	8010	149	5834	29239	
C 100 2_8.4	8.4	214	7601	180	3311	26420	143	8585	135	4395	29868	
C 100 2_9.0	9.0	200	7740	171	4328	27068	133	8742	128	5745	30602	
C 100 2_10.1	10.1	178	8111	159	3253	27347	119	9161	120	4317	30916	
C 100 2_10.9	10.9	165	8111	148	4554	29293	110	9161	111	6044	33117	
C 100 2_12.5	12.5	144	8714	138	2719	28552	96	9842	104	3609	32278	
C 100 2_13.5	13.5	133	8807	129	3903	29757	89	9947	97	5181	33641	
C 100 2_15.2	15.2	118	9270	121	2235	30128	79	10470	91	2967	34060	
C 100 2_16.5	16.5	109	9409	113	3686	31147	73	10627	85	4893	35213	
C 100 2_18.7	18.7	96	9270	98	3002	35226	64	10470	74	3985	39824	
C 100 2_20.2	20.2	89	9270	91	4345	36709	59	10470	69	5767	41501	
C 100 2_22.2	22.2	81	8528	76	4971	40881	54	9632	57	6598	46217	
C 100 2_24.1	24.1	75	9270	76	4921	40139	50	10470	57	6531	45378	
C 100 2_29.6	29.6	61	7880	53	7689	48389	41	8900	40	10207	54706	
C 100 3_34.3	34.3	52	10846	64	10842	43013	35	11700	46	14391	48627	
C 100 3_36.9	36.9	49	10939	60	10925	44496	33	11800	43	14502	50304	
C 100 3_42.9	42.9	42	11350	54	10925	47462	28	12000	38	14502	53658	
C 100 3_46.2	46.2	39	11700	51	11092	49224	26	12000	35	14723	55649	
C 100 3_53.3	53.3	34	12000	46	11009	52746	23	12000	30	14612	59631	
C 100 3_57.4	57.4	31	12000	42	11176	54693	21	12000	28	14834	61832	
C 100 3_64.5	64.5	27.9	12000	38	11176	57752	19	12000	25	14834	65290	
C 100 3_69.4	69.4	25.9	12000	35	11259	59792	17	12000	23	14945	67596	
C 100 3_79.4	79.4	22.7	12000	31	11259	63592	15	12000	20	14945	71893	
C 100 3_85.6	85.6	21.0	12000	28	11342	65724	14	12000	19	15000	74303	
C 100 3_92.7	92.7	19.4	12000	26	11259	68135	13	12000	17	15000	77028	
C 100 3_99.8	99.8	18.0	12000	24	11342	70359	12	12000	16	15000	79543	
C 100 3_111.9	111.9	16.1	12000	22	11259	73975	11	12000	14	15000	83630	
C 100 3_120.5	120.5	14.9	12000	20	11426	76385	10	12000	13	15000	85000	
C 100 3_139.7	139.7	12.9	11050	16.0	11426	78795	9	11050	11	15000	85000	
C 100 3_150.4	150.4	12.0	12000	16.2	11426	78795	8	12000	11	15000	85000	
C 100 4_162.1	162.1	11.1	12000	15.5	—	85000	7.4	12000	10.3	—	85000	
C 100 4_185.4	185.4	9.7	12000	13.6	—	85000	6.5	12000	9.0	—	85000	
C 100 4_199.6	199.6	9.0	12000	12.6	—	85000	6.0	12000	8.4	—	85000	
C 100 4_244.2	244.2	7.4	12000	10.3	—	85000	4.9	12000	6.9	—	85000	
C 100 4_263.0	263.0	6.8	12000	9.6	—	85000	4.6	12000	6.4	—	85000	
C 100 4_300.5	300.5	6.0	12000	8.4	—	85000	4.0	12000	5.6	—	85000	
C 100 4_323.6	323.6	5.6	12000	7.8	—	85000	3.7	12000	5.2	—	85000	
C 100 4_380.5	380.5	4.7	12000	6.6	—	85000	3.2	12000	4.4	—	85000	
C 100 4_409.8	409.8	4.4	12000	6.1	—	85000	2.9	12000	4.1	—	85000	
C 100 4_466.7	466.7	3.9	12000	5.4	—	85000	2.6	12000	3.6	—	85000	
C 100 4_502.6	502.6	3.6	12000	5.0	—	85000	2.4	12000	3.3	—	85000	
C 100 4_582.6	582.6	3.1	12000	4.3	—	85000	2.1	12000	2.9	—	85000	
C 100 4_627.4	627.4	2.9	12000	4.0	—	85000	1.9	12000	2.7	—	85000	
C 100 4_720.3	720.3	2.5	12000	3.5	—	85000	1.7	12000	2.3	—	85000	
C 100 4_775.7	775.7	2.3	12000	3.2	—	85000	1.5	12000	2.2	—	85000	
C 100 4_843.3	843.3	2.1	12000	3.0	—	85000	1.4	12000	2.0	—	85000	
C 100 4_908.2	908.2	2.0	12000	2.8	692	85000	1.3	12000	1.8	919	85000	
C 100 4_1004	1004	1.8	12000	2.5	—	85000	1.2	12000	1.7	—	85000	
C 100 4_1081	1081	1.7	12000	2.3	726	85000	1.1	12000	1.6	963	85000	

(—) Entre em contato com o nosso departamento de assistência técnica e informe os dados da carga radial (sentido de rotação, orientação e posição)





## 27 DISPONIBILIDADE DE MOTOR

Observe que as combinações de motor e redutor resultantes das tabelas (B21) e (B22) baseiam-se meramente na compatibilidade geométrica.

**Ao seleccionar um redutor, consulte o procedimento especificado no parágrafo 11 e observe especificamente a condição  $S \geq f_s$ .**

(B 21)

		IEC_   (IM B5)									
		P63 P71	P80 P90	P100 P112	P132	P160	P180	P200	P225	P250	P280
C 12 2		2.8_66.2	2.8_47.6	2.8_47.6							
C 22 2		3.7_63.3 ☉ (7.1_8.7)	2.7_54.7	2.7_54.7							
C 22 3		60.0_261.0	60.0_261.0	60.0_261.0							
C 32 2		5.0_66.8 ☉ (7.2_11.2)	2.9_66.8	2.9_66.8	2.9_25.1						
C 32 3		74.7_274.7	74.7_274.7	74.7_274.7							
C 36 2		4.6_19.0 ☉ (6.8_10.6)	2.7_19.0	2.7_19.0	2.7_19.0						
C 36 3		38.1_206.4	22.1_206.4	22.1_206.4	22.1_77.6						
C 36 4		230.9_848.5	230.9_848.5	230.9_848.5							
C 41 2		14.2_44.8	2.7_44.8	2.7_44.8	2.7_31.4						
C 41 3		47.0_209.1	28.5_209.1	28.5_209.1	28.5_102.3						
C 41 4		239.9_855.5	239.9_855.5	239.9_855.5							
C 51 2		18.9_57.0	2.6_57.0	2.6_57.0	2.6_40.4	2.6_40.4	2.6_40.4				
C 51 3		59.0_216.7	21.8_216.7	21.8_216.7	21.8_124.4	21.8_124.4	21.8_124.4				
C 51 4		240.9_884.9	240.9_884.9	240.9_884.9							
C 61 2	i =	22.4_38.0	3.7_38.0 ☉ (6.7_7.5)	3.7_38.0 ☉ (6.7_7.5)	2.8_38.0	2.8_38.0	2.8_38.0				
C 61 3		67.7_195.8	26.8_195.8	26.8_195.8	26.8_140.5	26.8_140.5	26.8_140.5				
C 61 4		217.4_796.1	217.4_796.1	217.4_796.1							
C 70 2			14.1_34.7 ☉ (15.3)	14.1_34.7 ☉ (15.3)	7.5_34.7 ☉ (8.0)	4.6_34.7	4.6_34.7*	4.6_10.2* ☉ (9.5)			
C 70 3			41.3_239.3	41.3_239.3	41.3_137.4	41.3_137.4	41.3_137.4*				
C 70 4		251.3_1476	251.3_1476	251.3_1476	251.3_554.7						
C 80 2			20.5_39.1	20.5_39.1	11.1_39.1	7.0_39.1	5.6_39.1	5.6_25.9*	5.6_25.9*		
C 80 3			43.5_215.8	43.5_215.8	43.5_184.4	43.5_184.4	43.5_184.4				
C 80 4		334.3_1481	261.9_1481	261.9_1481	261.9_724.7						
C 90 2			22.9_35.1	22.9_35.1	12.8_35.1	10.4_35.1	10.4_35.1	5.2_29.4	5.2_29.4*	5.2_29.4*	
C 90 3			74.4_172.1	74.4_172.1	39.4_172.1	39.4_172.1	39.4_172.1	39.4_96.2	39.4_96.2*	39.4_96.2*	
C 90 4		339.0_1240	212.4_1240	212.4_1240	212.4_712.2	212.4_712.2	212.4_712.2				
C 100 2				29.6	15.2_29.6	12.5_29.6	12.5_29.6	4.9_29.6	4.9_29.6	4.9_29.6*	4.9_29.6*
C 100 3				79.4_150.4	42.9_150.4	34.3_150.4	34.3_150.4	34.3_99.8	34.3_99.8*	34.3_99.8	34.3_99.8*
C 100 4		380.5_1081	162.1_1081	162.1_1081	162.1_775.7	162.1_775.7	162.1_775.7				

Para as posições de montagem B3-B5 B6-B7-B8, o motor marcado com \* será fornecido em B3/B5







(B 22)

		<b>NEMA Motor frame</b>						
		N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC
C 12 2		2.8_66.2	2.8_47.6	2.8_47.6				
C 22 2		3.7_63.3 ⊖ (7.1_8.7)	2.7_54.7	2.7_54.7				
C 22 3		60.0_261.0	60.0_261.0	60.0_261.0				
C 32 2		5.0_66.8 ⊖ (7.2_11.2)	2.9_66.8	2.9_66.8	2.9_25.1			
C 32 3		74.7_274.7	74.7_274.7	74.7_274.7				
C 36 2		4.6_19.0 ⊖ (6.8_10.6)	2.7_19.0	2.7_19.0	2.7_19.0			
C 36 3		38.1_206.4	22.1_206.4	22.1_206.4	22.1_77.6			
C 36 4		230.9_848.5	230.9_848.5	230.9_848.5				
C 41 2		14.2_44.8	2.7_44.8	2.7_44.8	2.7_31.4			
C 41 3		47.0_209.1	28.5_209.1	28.5_209.1	28.5_102.3			
C 41 4		239.9_855.5	239.9_855.5	239.9_855.5				
C 51 2		18.9_57.0	2.6_57.0	2.6_57.0	2.6_40.4	2.6_40.4	2.6_40.4	
C 51 3		59.0_216.7	21.8_216.7	21.8_216.7	21.8_124.4	21.8_124.4	21.8_124.4	
C 51 4		240.9_884.9	240.9_884.9	240.9_884.9				
C 61 2	i =	22.4_38.0	3.7_38.0 ⊖ (6.7_7.5)	3.7_38.0 ⊖ (6.7_7.5)	2.8_38.0	2.8_38.0	2.8_38.0	
C 61 3		67.7_195.8	26.8_195.8	26.8_195.8	26.8_140.5	26.8_140.5	26.8_140.5	
C 61 4		217.4_796.1	217.4_796.1	217.4_796.1				
C 70 2			14.1_34.7 ⊖ (15.3)	14.1_34.7 ⊖ (15.3)	7.5_34.7 ⊖ (8.0)	4.6_34.7	4.6_34.7*	
C 70 3			41.3_239.3	41.3_239.3	41.3_137.4	41.3_137.4	41.3_137.4*	
C 70 4		251.3_1476	251.3_1476	251.3_1476	251.3_554.7			
C 80 2			20.5_39.1	20.5_39.1	11.1_39.1	7.0_39.1	5.6_39.1	5.6_25.9*
C 80 3			43.5_215.8	43.5_215.8	43.5_184.4	43.5_184.4	43.5_184.4	
C 80 4		334.3_1481	261.9_1481	261.9_1481	261.9_724.7			
C 90 2			22.9_35.1	22.9_35.1	12.8_35.1	10.4_35.1	10.4_35.1	5.2_29.4*
C 90 3			74.4_172.1	74.4_172.1	39.4_172.1	39.4_172.1	39.4_172.1	39.4_96.2*
C 90 4		339.0_1240	212.4_1240	212.4_1240	212.4_712.2	212.4_712.2	212.4_712.2	
C 100 2				29.6	15.2_29.6	12.5_29.6	12.5_29.6	4.9_29.6
C 100 3				79.4_150.4	42.9_150.4	34.3_150.4	34.3_150.4	34.3_99.8*
C 100 4		380.5_1081	162.1_1081	162.1_1081	162.1_775.7	162.1_775.7	162.1_775.7	



(B 23)

		 						
		M0	M05	M1	ME2	ME3	ME4	ME5
C 05 2		27.1_44.7	5.5_44.7	5.5_44.7				
C 12 2			2.8_66.2	2.8_37.0	2.8_47.7	2.8_47.7		
C 22 2			3.7_63.3 ⊖ (7.1_8.7)	3.7_43.3 ⊖ (7.1_8.7)	2.7_54.7	2.7_54.7		
C 22 3			60.0_261.0	60.0_261.0	60.0_261.0	60.0_261.0		
C 32 2				5.0_52.4 ⊖ (7.2_11.2)	2.9_66.8	2.9_66.8	2.9_25.1	
C 32 3			74.7_274.7	74.7_274.7	74.7_274.7	74.7_274.7		
C 36 2				4.6_19.0 ⊖ (6.8_10.6)	2.7_19.0	2.7_19.0	2.7_19.0	
C 36 3				38.1_162.0	22.1_206.4	22.1_206.4	22.1_77.6	
C 36 4			230.9_848.5	230.9_848.5	230.9_848.5	230.9_848.5		
C 41 2				14.2_44.8	2.7_44.8	2.7_44.8	2.7_31.4	
C 41 3				47.0_209.1	28.5_209.1	28.5_209.1	28.5_102.3	
C 41 4			239.9_855.5	239.9_855.5	239.9_855.5	239.9_855.5		
C 51 2				18.9_57.0	2.6_57.0	2.6_57.0	2.6_40.4	2.6_40.4
C 51 3				59.0_216.7	21.8_216.7	21.8_216.7	21.8_124.4	21.8_124.4
C 51 4				240.9_884.9	240.9_884.9	240.9_884.9		
C 61 2	i =				3.7_38.0 ⊖ (6.7_7.5)	3.7_38.0 ⊖ (6.7_7.5)	2.8_38.0	2.8_38.0
C 61 3					26.8_195.8	26.8_195.8	26.8_140.5	26.8_140.5
C 61 4				217.4_796.1	217.4_796.1	217.4_796.1		
C 70 2					14.1_34.7 ⊖ (15.3)	14.1_34.7 ⊖ (15.3)	7.5_34.7 ⊖ (8.0)	7.5_34.7 ⊖ (8.0)
C 70 3					41.3_239.3	41.3_239.3	41.3_137.4	41.3_137.4
C 70 4				251.3_1476	251.3_1476	251.3_1476	251.3_554.7	
C 80 2						20.5_39.1	11.1_39.1	11.1_39.1
C 80 3						43.5_215.8	43.5_184.4	43.5_184.4
C 80 4				334.3_1481	261.9_1481	261.9_1481	261.9_724.7	
C 90 2						22.9_35.1	12.8_35.1	12.8_35.1
C 90 3						74.4_172.1	39.4_172.1	39.4_172.1
C 90 4				339.0_1240	212.4_1240	212.4_1240	212.4_712.2	
C 100 2							15.2_29.6	15.2_29.6
C 100 3							42.9_150.4	42.9_150.4
C 100 4				380.5_1081	162.1_1081	162.1_1081	162.1_775.7	



Adaptadores para motor compatíveis com as marcas mais populares de servomotores estão disponíveis para as unidades tamanhos C12...C61. As dimensões das entradas do servomotor são fornecidas na seção “desenho” de cada tamanho de quadro.

O código **SK** é aplicável para entradas com chaveira convencional, enquanto que o eixo de entrada especificado pelo código **SC** terá um dispositivo de fixação em vez da chaveira convencional.

(B 24)

		SERVO INPUT							
		SK60A	SK60B	SK80A	SK80B	SK80C	SK95A	SK95B	SK95C
		SC60A	SC60B	SC80A	SC80B	SC80C	SC95A	SC95B	SC95C
C 12 2		2.8_66.2	2.8_66.2	2.8_66.2		2.8_47.6	2.8_66.2	2.8_47.6	2.8_47.6
C 22 2		3.7_63.3 ⊖ (7.1_8.7)	3.7_63.3 ⊖ (7.1_8.7)	3.7_63.3 ⊖ (7.1_8.7)		2.7_54.7	3.7_63.3 ⊖ (7.1_8.7)	2.7_54.7	2.7_54.7
C 22 3		60.0_261.0	60.0_261.0	60.0_261.0		60.0_261.0	60.0_261.0	60.0_261.0	60.0_261.0
C 32 2		5.0_66.8 ⊖ (7.2_11.2)	5.0_66.8 ⊖ (7.2_11.2)	5.0_66.8 ⊖ (7.2_11.2)		2.9_66.8	5.0_66.8 ⊖ (7.2_11.2)	2.9_66.8	2.9_66.8
C 32 3		74.7_274.7	74.7_274.7	74.7_274.7		74.7_274.7	74.7_274.7	74.7_274.7	74.7_274.7
C 36 2		4.6_19.0 ⊖ (6.8_10.6)	4.6_19.0 ⊖ (6.8_10.6)	4.6_19.0 ⊖ (6.8_10.6)		2.7_19.0	4.6_19.0 ⊖ (6.8_10.6)	2.7_19.0	2.7_19.0
C 36 3		38.1_206.4	38.1_206.4	38.1_206.4		22.1_206.4	38.1_206.4	22.1_206.4	22.1_206.4
C 36 4		230.9_848.5	230.9_848.5	230.9_848.5		230.9_848.5	230.9_848.5	230.9_848.5	230.9_848.5
C 41 2	i =				6.0_44.8 ⊖ (6.4_12.4)	2.7_44.8	6.0_44.8 ⊖ (6.4_12.4)	2.7_44.8	2.7_44.8
C 41 3					47.0_209.1	28.5_209.1	47.0_209.1	28.5_209.1	28.5_209.1
C 41 4		239.9_855.5	239.9_855.5	239.9_855.5		239.9_855.5	239.9_855.5	239.9_855.5	239.9_855.5
C 51 2					18.9_57.0	2.6_57.0	18.9_57.0	2.6_57.0	2.6_57.0
C 51 3					59.0_216.7	21.8_216.7	59.0_216.7	21.8_216.7	21.8_216.7
C 51 4						240.9_884.9	240.9_884.9	240.9_884.9	240.9_884.9
C 61 2						3.7_38.0 ⊖ (6.7_7.5)	22.4_38.0	3.7_38.0 ⊖ (6.7_7.5)	3.7_38.0 ⊖ (6.7_7.5)
C 61 3						26.8_195.8	67.7_195.8	26.8_195.8	26.8_195.8
C 61 4					217.4_796.1	217.4_796.1	217.4_796.1	217.4_796.1	217.4_796.1


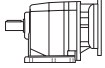

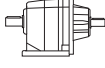

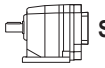
(B 25)


		SK110A	SK110B	SK130A	SK130B	SK180A	SK180B
		SC110A	SC110B	SC130A	SC130B	SC180A	SC180B
C 12 2		2.8_47.6	2.8_47.6				
C 22 2		2.7_54.7	2.7_54.7				
C 22 3		60.0_261.0	60.0_261.0				
C 32 2		2.9_66.8	2.9_66.8	2.9_66.8			
C 32 3		74.7_274.7	74.7_274.7				
C 36 2		2.7_19.0	2.7_19.0	2.7_19.0			
C 36 3		22.1_206.4	22.1_206.4	22.1_206.4			
C 36 4		230.9_848.5	230.9_848.5				
C 41 2	i =	2.7_44.8	2.7_44.8	2.7_44.8	2.7_31.4	2.7_31.4	2.7_31.4
C 41 3		28.5_209.1	28.5_209.1	28.5_209.1	28.5_102.3	28.5_102.3	28.5_102.3
C 41 4		239.9_855.5	239.9_855.5				
C 51 2		2.6_57.0	2.6_57.0	2.6_57.0	2.6_40.4	2.6_40.4	2.6_40.4
C 51 3		21.8_216.7	21.8_216.7	21.8_216.7	21.8_124.4	21.8_124.4	21.8_124.4
C 51 4		240.9_884.9	240.9_884.9	240.9_884.9			
C 61 2		3.7_38.0 ⊖ (6.7_7.5)	3.7_38.0 ⊖ (6.7_7.5)	3.7_38.0 ⊖ (6.7_7.5)	2.8_38.0	2.8_38.0	2.8_38.0
C 61 3		26.8_195.8	26.8_195.8	26.8_195.8	26.8_140.5	26.8_140.5	26.8_140.5
C 61 4		217.4_796.1	217.4_796.1	217.4_796.1			



## 28 MOMENTO DE INÉRCIA



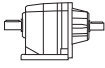
As tabelas abaixo indicam os valores de momento de inércia  $J_r$  [kgm<sup>2</sup>] referentes ao eixo de alta velocidade do redutor. Legenda dos símbolos utilizados a seguir:

	<p>Valores sob este ícone referem-se a redutores compactos, sem motor. Para obter o momento de inércia total do redutor, basta incluir o valor da inércia do motor compacto específico, fornecido na tabela de classificação pertinente.</p>		<p>Valores sob este símbolo referem-se a redutores com adaptador para motor NEMA (tamanho NEMA...).</p>
	<p>Valores sob este símbolo referem-se a redutores com adaptador para motor IEC (tamanho IEC...).</p>		<p>Este símbolo refere-se a valores para redutores.</p>
	<p>Valores sob este símbolo referem-se a redutores com adaptador para motor IEC (tamanho IEC...).</p>		<p>Valores sob este símbolo referem-se a redutores com adaptador de entrada para servomotor.</p>

C 05		
	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]
		
C 05_5.5	5.5	0.29
C 05_6.7	6.7	0.29
C 05_7.4	7.4	0.28
C 05_9.3	9.3	0.17
C 05_11.2	11.2	0.16
C 05_12.5	12.5	0.16
C 05_15.6	15.6	0.09
C 05_18.9	18.9	0.09
C 05_21.0	21.0	0.08
C 05_27.1	27.1	0.04
C 05_32.8	32.8	0.04
C 05_36.4	36.4	0.04
C 05_40.3	40.3	0.03
C 05_44.7	44.7	0.03



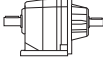


## C 12

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]							
			 IEC						
			63	71	80	90	100	112	
<b>C 12 2_2.8</b>	2.8	0.44	1.9	1.9	3.3	3.2	4.5	4.5	1.3
<b>C 12 2_3.2</b>	3.2	0.34	1.8	1.8	3.2	3.1	4.4	4.4	1.2
<b>C 12 2_3.7</b>	3.7	0.29	1.8	1.7	3.1	3.1	4.4	4.4	1.2
<b>C 12 2_4.3</b>	4.3	0.21	1.7	1.7	3.1	3.0	4.3	4.3	1.1
<b>C 12 2_4.9</b>	4.9	0.19	1.7	1.7	3.0	3.0	4.3	4.3	1.1
<b>C 12 2_5.6</b>	5.6	0.15	1.6	1.6	3.0	2.9	4.2	4.2	1.0
<b>C 12 2_6.2</b>	6.2	0.12	1.6	1.6	3.0	2.9	4.2	4.2	1.0
<b>C 12 2_7.6</b>	7.6	0.33	1.8	1.8	3.2	3.1	4.4	4.4	1.2
<b>C 12 2_8.8</b>	8.8	0.32	1.8	1.8	3.2	3.1	4.4	4.4	1.2
<b>C 12 2_10.1</b>	10.1	0.23	1.7	1.7	3.1	3.0	4.3	4.3	1.1
<b>C 12 2_11.9</b>	11.9	0.17	1.6	1.6	3.0	3.0	4.2	4.2	1.1
<b>C 12 2_13.4</b>	13.4	0.16	1.6	1.6	3.0	2.9	4.2	4.2	1.1
<b>C 12 2_15.4</b>	15.4	0.12	1.6	1.6	3.0	2.9	4.2	4.2	1.0
<b>C 12 2_17.2</b>	17.2	0.10	1.6	1.6	2.9	2.9	4.2	4.2	1.0
<b>C 12 2_18.4</b>	18.4	0.08	1.6	1.5	2.9	2.9	4.2	4.2	0.98
<b>C 12 2_20.6</b>	20.6	0.08	1.5	1.5	2.9	2.9	4.2	4.2	0.98
<b>C 12 2_23.2</b>	23.2	0.07	1.5	1.5	2.9	2.9	4.1	4.1	0.97
<b>C 12 2_25.4</b>	25.4	0.06	1.5	1.5	2.9	2.8	4.1	4.1	0.96
<b>C 12 2_29.5</b>	29.5	0.05	1.5	1.5	2.9	2.8	4.1	4.1	0.95
<b>C 12 2_32.8</b>	32.8	0.04	1.5	1.5	2.9	2.8	4.1	4.1	0.94
<b>C 12 2_37.0</b>	37.0	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
<b>C 12 2_42.3</b>	42.3	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
<b>C 12 2_47.6</b>	47.6	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.92
<b>C 12 2_55.2</b>	55.2	0.02	1.5	1.5	—	—	—	—	0.92
<b>C 12 2_66.2</b>	66.2	0.01	1.5	1.5	—	—	—	—	0.91




## C 12

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]				
			NEMA 			
			N56C	N140TC	N180TC	
<b>C 12 2_2.8</b>	2.8	0.44	1.9	1.9	3.3	1.3
<b>C 12 2_3.2</b>	3.2	0.34	1.8	1.8	3.2	1.2
<b>C 12 2_3.7</b>	3.7	0.29	1.8	1.8	3.1	1.2
<b>C 12 2_4.3</b>	4.3	0.21	1.7	1.7	3.1	1.1
<b>C 12 2_4.9</b>	4.9	0.19	1.7	1.7	3.0	1.1
<b>C 12 2_5.6</b>	5.6	0.15	1.6	1.6	3.0	1.0
<b>C 12 2_6.2</b>	6.2	0.12	1.6	1.6	3.0	1.0
<b>C 12 2_7.6</b>	7.6	0.33	1.8	1.8	3.2	1.2
<b>C 12 2_8.8</b>	8.8	0.32	1.8	1.8	3.2	1.2
<b>C 12 2_10.1</b>	10.1	0.23	1.7	1.7	3.1	1.1
<b>C 12 2_11.9</b>	11.9	0.17	1.6	1.6	3.0	1.1
<b>C 12 2_13.4</b>	13.4	0.16	1.6	1.6	3.0	1.1
<b>C 12 2_15.4</b>	15.4	0.12	1.6	1.6	3.0	1.0
<b>C 12 2_17.2</b>	17.2	0.10	1.6	1.6	2.9	1.0
<b>C 12 2_18.4</b>	18.4	0.08	1.6	1.6	2.9	0.98
<b>C 12 2_20.6</b>	20.6	0.08	1.5	1.5	2.9	0.98
<b>C 12 2_23.2</b>	23.2	0.07	1.5	1.5	2.9	0.97
<b>C 12 2_25.4</b>	25.4	0.06	1.5	1.5	2.9	0.96
<b>C 12 2_29.5</b>	29.5	0.05	1.5	1.5	2.9	0.95
<b>C 12 2_32.8</b>	32.8	0.04	1.5	1.5	2.9	0.94
<b>C 12 2_37.0</b>	37.0	0.03	1.5	1.5	2.9	0.93
<b>C 12 2_42.3</b>	42.3	0.03	1.5	1.5	2.9	0.93
<b>C 12 2_47.6</b>	47.6	0.02	1.5	1.5	2.9	0.92
<b>C 12 2_55.2</b>	55.2	0.02	1.5	1.5	—	0.92
<b>C 12 2_66.2</b>	66.2	0.01	1.5	1.5	—	0.91





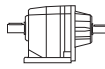


## C 12

		J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]									
		 <b>SERVO</b>									
	i	60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
<b>C 12 2_2.8</b>	2.8	0.71	0.97	0.73	1.2	3.3	3.7	3.3	3.8	3.2	4.2
<b>C 12 2_3.2</b>	3.2	0.61	0.87	0.63	1.1	3.2	3.6	3.2	3.7	3.1	4.1
<b>C 12 2_3.7</b>	3.7	0.56	0.82	0.58	1.0	3.1	3.5	3.1	3.6	3.1	4.1
<b>C 12 2_4.3</b>	4.3	0.48	0.74	0.50	0.94	3.0	3.5	3.1	3.6	3.0	4.0
<b>C 12 2_4.9</b>	4.9	0.46	0.72	0.48	0.92	3.0	3.4	3.0	3.5	3.0	4.0
<b>C 12 2_5.6</b>	5.6	0.42	0.68	0.44	0.88	3.0	3.4	3.0	3.5	2.9	3.9
<b>C 12 2_6.2</b>	6.2	0.39	0.65	0.41	0.85	2.9	3.4	3.0	3.5	2.9	3.9
<b>C 12 2_7.6</b>	7.6	0.60	0.86	0.62	1.1	3.2	3.6	3.2	3.7	3.1	4.1
<b>C 12 2_8.8</b>	8.8	0.59	0.85	0.61	1.0	3.1	3.6	3.2	3.7	3.1	4.1
<b>C 12 2_10.1</b>	10.1	0.50	0.76	0.52	0.96	3.1	3.5	3.1	3.6	3.0	4.0
<b>C 12 2_11.9</b>	11.9	0.44	0.70	0.46	0.90	3.0	3.4	3.0	3.5	3.0	4.0
<b>C 12 2_13.4</b>	13.4	0.43	0.69	0.45	0.83	3.0	3.4	3.0	3.5	2.9	3.9
<b>C 12 2_15.4</b>	15.4	0.39	0.65	0.41	0.85	2.9	3.4	3.0	3.5	2.9	3.9
<b>C 12 2_17.2</b>	17.2	0.37	0.63	0.39	0.83	2.9	3.4	2.9	3.4	2.9	3.9
<b>C 12 2_18.4</b>	18.4	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.9	3.9
<b>C 12 2_20.6</b>	20.6	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.9	3.9
<b>C 12 2_23.2</b>	23.2	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.9	3.9
<b>C 12 2_25.4</b>	25.4	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.8	3.8
<b>C 12 2_29.5</b>	29.5	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8
<b>C 12 2_32.8</b>	32.8	0.34	0.60	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8
<b>C 12 2_37.0</b>	37.0	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
<b>C 12 2_42.3</b>	42.3	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
<b>C 12 2_47.6</b>	47.6	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
<b>C 12 2_55.2</b>	55.2	0.29	0.55	0.31	0.75	2.8	3.3	—	—	—	—
<b>C 12 2_66.2</b>	66.2	0.28	0.54	0.30	0.74	2.8	3.3	—	—	—	—



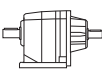


## C 22

	i	J (•10 <sup>-4</sup> ) [kgm <sup>2</sup> ]							
			 IEC						
			63	71	80	90	100		
C 22 2_2.7	2.7	1.2	—	—	4.0	4.0	5.3	5.3	3.1
C 22 2_3.3	3.3	0.83	—	—	3.7	3.6	4.9	4.9	2.7
C 22 2_3.7	3.7	0.72	2.2	2.2	3.6	3.5	4.8	4.8	2.6
C 22 2_4.3	4.3	0.56	2.0	2.0	3.4	3.3	4.6	4.6	2.4
C 22 2_4.8	4.8	0.48	2.0	1.9	3.3	3.3	4.6	4.6	2.4
C 22 2_5.6	5.6	0.36	1.8	1.8	3.2	3.2	4.4	4.4	2.2
C 22 2_6.1	6.1	0.29	1.8	1.7	3.1	3.1	4.4	4.4	2.2
C 22 2_7.1	7.1	0.77	—	—	3.6	3.6	4.8	4.8	2.6
C 22 2_8.7	8.7	0.55	—	—	3.4	3.3	4.6	4.6	2.4
C 22 2_9.6	9.6	0.50	2.0	2.0	3.3	3.3	4.6	4.6	2.4
C 22 2_11.1	11.1	0.39	1.9	1.8	3.2	3.2	4.5	4.5	2.3
C 22 2_12.4	12.4	0.35	1.8	1.8	3.2	3.1	4.4	4.4	2.2
C 22 2_14.5	14.5	0.36	1.7	1.7	3.1	3.1	4.3	4.3	2.1
C 22 2_15.8	15.8	0.20	1.7	1.7	3.1	3.0	4.3	4.3	2.1
C 22 2_18.1	18.1	0.18	1.6	1.6	3.0	3.0	4.3	4.3	2.0
C 22 2_20.0	20.0	0.15	1.6	1.6	3.0	2.9	4.2	4.2	2.0
C 22 2_21.5	21.5	0.13	1.6	1.6	3.0	2.9	4.2	4.2	2.0
C 22 2_24.3	24.3	0.12	1.6	1.6	3.0	2.9	4.2	4.2	2.0
C 22 2_27.2	27.2	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.0
C 22 2_29.6	29.6	0.09	1.6	1.5	2.9	2.9	4.2	4.2	2.0
C 22 2_33.1	33.1	0.07	1.5	1.5	2.9	2.9	4.2	4.2	1.9
C 22 2_36.8	36.8	0.06	1.5	1.5	2.9	2.8	4.1	4.1	1.9
C 22 2_43.3	43.3	0.05	1.5	1.5	2.9	2.8	4.1	4.1	1.9
C 22 2_48.6	48.6	0.04	1.5	1.5	2.9	2.8	4.1	4.1	1.9
C 22 2_54.7	54.7	0.03	1.5	1.5	2.9	2.8	4.1	4.1	1.9
C 22 2_63.3	63.3	0.02	1.5	1.5	—	—	—	—	1.9
C 22 3_60.0	60.0	0.04	1.5	1.5	2.9	2.8	4.1	4.1	0.94
C 22 3_65.3	65.3	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 22 3_74.8	74.8	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 22 3_82.6	82.6	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 22 3_88.5	88.5	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 22 3_100.2	100.2	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 22 3_112.0	112.0	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 22 3_122.2	122.2	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 22 3_136.5	136.5	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.92
C 22 3_151.7	151.7	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.92
C 22 3_178.5	178.5	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.92
C 22 3_200.7	200.7	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.92
C 22 3_225.8	225.8	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.92
C 22 3_261.0	261.0	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.92




## C 22

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]				
			NEMA 			
			N56C	N140TC	N180TC	
C 22 2_2.7	2.7	1.2	—	—	4.0	3.1
C 22 2_3.3	3.3	0.83	—	—	3.7	2.7
C 22 2_3.7	3.7	0.72	2.2	2.2	3.6	2.6
C 22 2_4.3	4.3	0.56	2.0	2.0	3.4	2.4
C 22 2_4.8	4.8	0.48	2.0	2.0	3.3	2.4
C 22 2_5.6	5.6	0.36	1.8	1.8	3.2	2.2
C 22 2_6.1	6.1	0.29	1.8	1.8	3.1	2.2
C 22 2_7.1	7.1	0.77	—	—	3.6	2.6
C 22 2_8.7	8.7	0.55	—	—	3.4	2.4
C 22 2_9.6	9.6	0.50	2.0	2.0	3.3	2.4
C 22 2_11.1	11.1	0.39	1.9	1.9	3.2	2.3
C 22 2_12.4	12.4	0.35	1.8	1.8	3.2	2.2
C 22 2_14.5	14.5	0.36	1.7	1.7	3.1	2.1
C 22 2_15.8	15.8	0.20	1.7	1.7	3.1	2.1
C 22 2_18.1	18.1	0.18	1.6	1.6	3.0	2.0
C 22 2_20.0	20.0	0.15	1.6	1.6	3.0	2.0
C 22 2_21.5	21.5	0.13	1.6	1.6	3.0	2.0
C 22 2_24.3	24.3	0.12	1.6	1.6	3.0	2.0
C 22 2_27.2	27.2	0.10	1.6	1.6	3.0	2.0
C 22 2_29.6	29.6	0.09	1.6	1.6	2.9	2.0
C 22 2_33.1	33.1	0.07	1.5	1.5	2.9	1.9
C 22 2_36.8	36.8	0.06	1.5	1.5	2.9	1.9
C 22 2_43.3	43.3	0.05	1.5	1.5	2.9	1.9
C 22 2_48.6	48.6	0.04	1.5	1.5	2.9	1.9
C 22 2_54.7	54.7	0.03	1.5	1.5	2.9	1.9
C 22 2_63.3	63.3	0.02	1.5	1.5	—	1.9
C 22 3_60.0	60.0	0.04	1.5	1.5	2.9	0.94
C 22 3_65.3	65.3	0.03	1.5	1.5	2.9	0.93
C 22 3_74.8	74.8	0.03	1.5	1.5	2.9	0.93
C 22 3_82.6	82.6	0.03	1.5	1.5	2.9	0.93
C 22 3_88.5	88.5	0.03	1.5	1.5	2.9	0.93
C 22 3_100.2	100.2	0.03	1.5	1.5	2.9	0.93
C 22 3_112.0	112.0	0.03	1.5	1.5	2.9	0.93
C 22 3_122.2	122.2	0.03	1.5	1.5	2.9	0.93
C 22 3_136.5	136.5	0.02	1.5	1.5	2.9	0.92
C 22 3_151.7	151.7	0.02	1.5	1.5	2.9	0.92
C 22 3_178.5	178.5	0.02	1.5	1.5	2.9	0.92
C 22 3_200.7	200.7	0.02	1.5	1.5	2.9	0.92
C 22 3_225.8	225.8	0.02	1.5	1.5	2.9	0.92
C 22 3_261.0	261.0	0.02	1.5	1.5	2.9	0.92

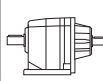


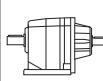


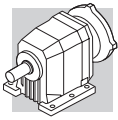
# C 22

		J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]									
		 <b>SERVO</b>									
	i	60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
<b>C 22 2_2.7</b>	2.7	—	—	—	—	—	—	4.0	4.5	4.0	5.0
<b>C 22 2_3.3</b>	3.3	—	—	—	—	—	—	3.7	4.2	3.6	4.6
<b>C 22 2_3.7</b>	3.7	0.99	1.3	1.0	1.4	3.5	4.0	3.6	4.1	3.5	4.5
<b>C 22 2_4.3</b>	4.3	0.83	1.1	0.85	1.3	3.4	3.8	3.4	3.9	3.3	4.3
<b>C 22 2_4.8</b>	4.8	0.75	1.0	0.77	1.2	3.3	3.7	3.3	3.8	3.3	4.3
<b>C 22 2_5.6</b>	5.6	0.63	0.89	0.65	1.1	3.2	3.6	3.2	3.7	3.2	4.2
<b>C 22 2_6.1</b>	6.1	0.56	0.82	0.58	1.0	3.1	3.5	3.1	3.6	3.1	4.1
<b>C 22 2_7.1</b>	7.1	—	—	—	—	—	—	3.6	4.1	3.6	4.6
<b>C 22 2_8.7</b>	8.7	—	—	—	—	—	—	3.4	3.9	3.3	4.3
<b>C 22 2_9.6</b>	9.6	0.77	1.0	0.79	1.2	3.3	3.8	3.3	3.8	3.3	4.3
<b>C 22 2_11.1</b>	11.1	0.66	0.92	0.68	1.1	3.2	3.6	3.2	3.7	3.2	4.2
<b>C 22 2_12.4</b>	12.4	0.62	0.88	0.64	1.1	3.2	3.6	3.2	3.7	3.1	4.1
<b>C 22 2_14.5</b>	14.5	0.63	0.89	0.65	1.1	3.2	3.6	3.1	3.6	3.1	4.1
<b>C 22 2_15.8</b>	15.8	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0
<b>C 22 2_18.1</b>	18.1	0.45	0.71	0.47	0.91	3.0	3.4	3.0	3.5	3.0	4.0
<b>C 22 2_20.0</b>	20.0	0.42	0.68	0.44	0.88	3.0	3.4	3.0	3.5	2.9	3.9
<b>C 22 2_21.5</b>	21.5	0.40	0.66	0.42	0.86	3.0	3.4	3.0	3.5	2.9	3.9
<b>C 22 2_24.3</b>	24.3	0.39	0.65	0.41	0.85	2.9	3.4	3.0	3.5	2.9	3.9
<b>C 22 2_27.2</b>	27.2	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
<b>C 22 2_29.6</b>	29.6	0.36	0.62	0.38	0.82	2.9	3.3	2.9	3.4	2.9	3.9
<b>C 22 2_33.1</b>	33.1	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.9	3.9
<b>C 22 2_36.8</b>	36.8	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.8	3.8
<b>C 22 2_43.3</b>	43.3	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8
<b>C 22 2_48.6</b>	48.6	0.31	0.57	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8
<b>C 22 2_54.7</b>	54.7	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
<b>C 22 2_63.3</b>	63.3	0.29	0.55	0.31	0.75	2.8	3.3	—	—	—	—
<b>C 22 3_60.0</b>	60.0	0.31	0.57	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8
<b>C 22 3_65.3</b>	65.3	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
<b>C 22 3_74.8</b>	74.8	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
<b>C 22 3_82.6</b>	82.6	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
<b>C 22 3_88.5</b>	88.5	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
<b>C 22 3_100.2</b>	100.2	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
<b>C 22 3_112.0</b>	112.0	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
<b>C 22 3_122.2</b>	122.2	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
<b>C 22 3_136.5</b>	136.5	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
<b>C 22 3_151.7</b>	151.7	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
<b>C 22 3_178.5</b>	178.5	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
<b>C 22 3_200.7</b>	200.7	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
<b>C 22 3_225.8</b>	225.8	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
<b>C 22 3_261.0</b>	261.0	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8



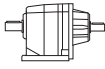


## C 32

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]								
			 IEC							
			63	71	80	90	100	112		
C 32 2_2.9	2.9	2.3	—	—	5.2	5.1	6.4	6.4	20	4.6
C 32 2_3.4	3.4	1.8	—	—	4.6	4.6	5.9	5.9	20	4.0
C 32 2_3.7	3.7	1.6	—	—	4.4	4.3	5.6	5.6	20	3.8
C 32 2_4.5	4.5	1.2	—	—	4.0	4.0	5.2	5.2	19	3.4
C 32 2_5.0	5.0	0.87	2.3	2.3	3.7	3.7	5.0	5.0	19	3.1
C 32 2_5.7	5.7	0.82	2.3	2.3	3.7	3.6	4.9	4.9	19	3.0
C 32 2_6.3	6.3	0.63	2.1	2.1	3.5	3.4	4.7	4.7	18	2.8
C 32 2_7.2	7.2	1.5	—	—	4.4	4.3	5.6	5.6	19	3.7
C 32 2_8.5	8.5	1.2	—	—	4.1	4.0	5.3	5.3	19	3.4
C 32 2_9.3	9.3	1.1	—	—	3.9	3.9	5.1	5.1	19	3.3
C 32 2_11.2	11.2	0.83	—	—	3.7	3.6	4.9	4.9	19	3.0
C 32 2_12.3	12.3	0.60	2.1	2.1	3.4	3.4	4.7	4.7	18	2.8
C 32 2_14.1	14.1	0.61	2.1	2.1	3.5	3.4	4.7	4.7	18	2.8
C 32 2_15.6	15.6	0.46	1.9	1.9	3.3	3.2	4.5	4.5	18	2.7
C 32 2_18.2	18.2	0.42	1.9	1.9	3.3	3.2	4.5	4.5	18	2.6
C 32 2_20.1	20.1	0.34	1.8	1.8	3.2	3.1	4.4	4.4	18	2.6
C 32 2_22.9	22.9	0.31	1.8	1.8	3.2	3.1	4.4	4.4	17	2.5
C 32 2_25.1	25.1	0.25	1.7	1.7	3.1	3.0	4.3	4.3	17	2.5
C 32 2_26.9	26.9	0.24	1.7	1.7	3.1	3.0	4.3	4.3	—	2.5
C 32 2_29.8	29.8	0.19	1.7	1.7	3.0	3.0	4.3	4.3	—	2.4
C 32 2_33.1	33.1	0.19	1.7	1.7	3.0	3.0	4.3	4.3	—	2.4
C 32 2_36.1	36.1	0.14	1.6	1.6	3.0	2.9	4.2	4.2	—	2.4
C 32 2_40.7	40.7	0.14	1.6	1.6	3.0	2.9	4.2	4.2	—	2.4
C 32 2_45.3	45.3	0.10	1.6	1.6	3.0	2.9	4.2	4.2	—	2.3
C 32 2_52.4	52.4	0.08	1.6	1.6	2.9	2.9	4.2	4.2	—	2.3
C 32 2_59.4	59.4	0.07	1.5	1.5	2.9	2.9	4.2	4.2	—	2.3
C 32 2_66.8	66.8	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	2.3
C 32 3_74.7	74.7	0.06	1.5	1.5	2.9	2.9	4.1	4.1	—	0.96
C 32 3_82.6	82.6	0.06	1.5	1.5	2.9	2.8	4.1	4.1	—	0.96
C 32 3_94.2	94.2	0.06	1.5	1.5	2.9	2.8	4.1	4.1	—	0.96
C 32 3_103.3	103.3	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	0.95
C 32 3_110.6	110.6	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	0.95
C 32 3_122.4	122.4	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	0.95
C 32 3_136.0	136.0	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	0.95
C 32 3_148.4	148.4	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	0.95
C 32 3_167.4	167.4	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	0.95
C 32 3_186.0	186.0	0.04	1.5	1.5	2.9	2.8	4.1	4.1	—	0.94
C 32 3_215.6	215.6	0.04	1.5	1.5	2.9	2.8	4.1	4.1	—	0.94
C 32 3_244.2	244.2	0.04	1.5	1.5	2.9	2.8	4.1	4.1	—	0.94
C 32 3_274.7	274.7	0.04	1.5	1.5	2.9	2.8	4.1	4.1	—	0.94




## C 32

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]					
			 NEMA				
			N56C	N140TC	N180TC	N210TC	
C 32 2_2.9	2.9	2.3	—	—	5.2	20	4.6
C 32 2_3.4	3.4	1.8	—	—	4.6	20	4.0
C 32 2_3.7	3.7	1.6	—	—	4.4	20	3.8
C 32 2_4.5	4.5	1.2	—	—	4.0	19	3.4
C 32 2_5.0	5.0	0.87	2.3	2.3	3.7	19	3.1
C 32 2_5.7	5.7	0.82	2.3	2.3	3.7	19	3.0
C 32 2_6.3	6.3	0.63	2.1	2.1	3.5	18	2.8
C 32 2_7.2	7.2	1.5	—	—	4.4	19	3.7
C 32 2_8.5	8.5	1.2	—	—	4.1	19	3.4
C 32 2_9.3	9.3	1.1	—	—	3.9	19	3.3
C 32 2_11.2	11.2	0.83	—	—	3.7	19	3.0
C 32 2_12.3	12.3	0.60	2.1	2.1	3.4	18	2.8
C 32 2_14.1	14.1	0.61	2.1	2.1	3.5	18	2.8
C 32 2_15.6	15.6	0.46	1.9	1.9	3.3	18	2.7
C 32 2_18.2	18.2	0.42	1.9	1.9	3.3	18	2.6
C 32 2_20.1	20.1	0.34	1.8	1.8	3.2	18	2.6
C 32 2_22.9	22.9	0.31	1.8	1.8	3.2	17	2.5
C 32 2_25.1	25.1	0.25	1.7	1.7	3.1	17	2.5
C 32 2_26.9	26.9	0.24	1.7	1.7	3.1	—	2.5
C 32 2_29.8	29.8	0.19	1.7	1.7	3.0	—	2.4
C 32 2_33.1	33.1	0.19	1.7	1.7	3.0	—	2.4
C 32 2_36.1	36.1	0.14	1.6	1.6	3.0	—	2.4
C 32 2_40.7	40.7	0.14	1.6	1.6	3.0	—	2.4
C 32 2_45.3	45.3	0.10	1.6	1.6	3.0	—	2.3
C 32 2_52.4	52.4	0.08	1.6	1.6	2.9	—	2.3
C 32 2_59.4	59.4	0.07	1.5	1.5	2.9	—	2.3
C 32 2_66.8	66.8	0.05	1.5	1.5	2.9	—	2.3
C 32 3_74.7	74.7	0.06	1.5	1.5	2.9	—	0.96
C 32 3_82.6	82.6	0.06	1.5	1.5	2.9	—	0.96
C 32 3_94.2	94.2	0.06	1.5	1.5	2.9	—	0.96
C 32 3_103.3	103.3	0.05	1.5	1.5	2.9	—	0.95
C 32 3_110.6	110.6	0.05	1.5	1.5	2.9	—	0.95
C 32 3_122.4	122.4	0.05	1.5	1.5	2.9	—	0.95
C 32 3_136.0	136.0	0.05	1.5	1.5	2.9	—	0.95
C 32 3_148.4	148.4	0.05	1.5	1.5	2.9	—	0.95
C 32 3_167.4	167.4	0.05	1.5	1.5	2.9	—	0.95
C 32 3_186.0	186.0	0.04	1.5	1.5	2.9	—	0.94
C 32 3_215.6	215.6	0.04	1.5	1.5	2.9	—	0.94
C 32 3_244.2	244.2	0.04	1.5	1.5	2.9	—	0.94
C 32 3_274.7	274.7	0.04	1.5	1.5	2.9	—	0.94





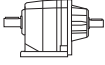


# C 32

		J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]											
		 SERVO											
	i	60A		60B 80A		95A		80C 95B 110A		95C 110B		130A	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 32 2_2.9	2.9	—	—	—	—	—	—	5.2	5.7	5.1	6.1	5.1	6.1
C 32 2_3.4	3.4	—	—	—	—	—	—	4.6	5.1	4.6	5.6	4.6	5.6
C 32 2_3.7	3.7	—	—	—	—	—	—	4.4	4.9	4.3	5.3	4.3	5.3
C 32 2_4.5	4.5	—	—	—	—	—	—	4.0	4.5	4.0	5.0	4.0	5.0
C 32 2_5.0	5.0	1.1	1.4	1.2	1.6	3.7	4.1	3.7	4.2	3.7	4.7	3.7	4.7
C 32 2_5.7	5.7	1.1	1.4	1.1	1.5	3.6	4.1	3.7	4.2	3.6	4.6	3.6	4.6
C 32 2_6.3	6.3	0.90	1.2	0.92	1.4	3.5	3.9	3.5	4.0	3.4	4.4	3.4	4.4
C 32 2_7.2	7.2	—	—	—	—	—	—	4.4	4.9	4.3	5.3	4.3	5.3
C 32 2_8.5	8.5	—	—	—	—	—	—	4.1	4.6	4.0	5.0	4.0	5.0
C 32 2_9.3	9.3	—	—	—	—	—	—	3.9	4.4	3.9	4.9	3.9	4.9
C 32 2_11.2	11.2	—	—	—	—	—	—	3.7	4.2	3.6	4.6	3.6	4.6
C 32 2_12.3	12.3	0.87	1.1	0.89	1.3	3.4	3.9	3.4	3.9	3.4	4.4	3.4	4.4
C 32 2_14.1	14.1	0.88	1.1	0.90	1.3	3.4	3.9	3.5	4.0	3.4	4.4	3.4	4.4
C 32 2_15.6	15.6	0.73	0.99	0.75	1.2	3.3	3.7	3.3	3.8	3.2	4.2	3.2	4.2
C 32 2_18.2	18.2	0.69	0.95	0.71	1.1	3.2	3.7	3.3	3.8	3.2	4.2	3.2	4.2
C 32 2_20.1	20.1	0.61	0.87	0.63	1.1	3.2	3.6	3.2	3.7	3.1	4.1	3.1	4.1
C 32 2_22.9	22.9	0.58	0.84	0.60	1.0	3.1	3.6	3.2	3.7	3.1	4.1	3.1	4.1
C 32 2_25.1	25.1	0.52	0.78	0.54	0.98	3.1	3.5	3.1	3.6	3.0	4.0	3.0	4.0
C 32 2_26.9	26.9	0.51	0.77	0.53	0.97	3.1	3.5	3.1	3.6	3.0	4.0	3.0	4.0
C 32 2_29.8	29.8	0.46	0.72	0.48	0.92	3.0	3.4	3.0	3.5	3.0	4.0	3.0	4.0
C 32 2_33.1	33.1	0.46	0.72	0.48	0.92	3.0	3.4	3.0	3.5	3.0	4.0	3.0	4.0
C 32 2_36.1	36.1	0.41	0.67	0.43	0.87	3.0	3.4	3.0	3.5	2.9	3.9	2.9	3.9
C 32 2_40.7	40.7	0.41	0.67	0.43	0.87	3.0	3.4	3.0	3.5	2.9	3.9	2.9	3.9
C 32 2_45.3	45.3	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	2.9	3.9
C 32 2_52.4	52.4	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.9	3.9	2.9	3.9
C 32 2_59.4	59.4	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.9	3.9	2.9	3.9
C 32 2_66.8	66.8	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8	2.8	3.8
C 32 3_74.7	74.7	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.9	3.9	—	—
C 32 3_82.6	82.6	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_94.2	94.2	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_103.3	103.3	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_110.6	110.6	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_122.4	122.4	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_136.0	136.0	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_148.4	148.4	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_167.4	167.4	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_186.0	186.0	0.31	0.57	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_215.6	215.6	0.31	0.57	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_244.2	244.2	0.31	0.57	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_274.7	274.7	0.31	0.57	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8	—	—



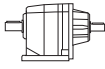


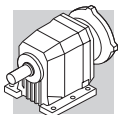
## C 36

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]								
			 IEC							
			63	71	80	90	100	112	132	
<b>C 36 2_2.7</b>	2.7	3.6	—	—	6.5	6.4	7.7	7.7	22	14
<b>C 36 2_3.2</b>	3.2	2.5	—	—	5.4	5.3	6.6	6.6	21	13
<b>C 36 2_3.5</b>	3.5	2.4	—	—	5.3	5.2	6.5	6.5	20	13
<b>C 36 2_4.2</b>	4.2	1.6	—	—	4.5	4.4	5.7	5.7	20	12
<b>C 36 2_4.6</b>	4.6	1.5	3.0	3.0	4.4	4.3	5.6	5.6	19	12
<b>C 36 2_5.3</b>	5.3	1.1	2.6	2.6	4.0	3.9	5.2	5.2	19	12
<b>C 36 2_5.8</b>	5.8	0.98	2.5	2.5	3.9	3.8	5.1	5.1	19	12
<b>C 36 2_6.8</b>	6.8	2.2	—	—	5.1	5.0	6.3	6.3	20	13
<b>C 36 2_8.0</b>	8.0	1.6	—	—	4.4	4.3	5.6	5.6	20	12
<b>C 36 2_8.8</b>	8.8	1.5	—	—	4.4	4.3	5.6	5.6	19	12
<b>C 36 2_10.6</b>	10.6	1.1	—	—	3.9	3.8	5.1	5.1	19	12
<b>C 36 2_11.7</b>	11.7	1.0	2.5	2.5	3.9	3.8	5.1	5.1	19	12
<b>C 36 2_13.3</b>	13.3	0.69	2.2	2.2	3.6	3.5	4.8	4.8	19	11
<b>C 36 2_14.8</b>	14.8	0.68	2.2	2.2	3.6	3.5	4.8	4.8	19	11
<b>C 36 2_17.2</b>	17.2	0.47	2.0	2.0	3.4	3.3	4.6	4.6	18	11
<b>C 36 2_19.0</b>	19.0	0.47	2.0	2.0	3.4	3.3	4.6	4.6	18	11
<b>C 36 3_22.1</b>	22.1	1.8	—	—	4.7	4.6	5.9	5.9	19	12
<b>C 36 3_26.2</b>	26.2	1.3	—	—	4.2	4.1	5.4	5.4	19	12
<b>C 36 3_28.7</b>	28.7	1.3	—	—	4.2	4.1	5.4	5.4	19	12
<b>C 36 3_34.6</b>	34.6	0.88	—	—	3.8	3.7	5.0	5.0	19	11
<b>C 36 3_38.1</b>	38.1	0.90	2.4	2.4	3.8	3.7	5.0	5.0	19	11
<b>C 36 3_43.5</b>	43.5	0.59	2.1	2.1	3.5	3.4	4.7	4.7	19	11
<b>C 36 3_48.2</b>	48.2	0.60	2.1	2.1	3.5	3.4	4.7	4.7	19	11
<b>C 36 3_56.2</b>	56.2	0.41	1.9	1.9	3.3	3.2	4.5	4.5	18	11
<b>C 36 3_62.0</b>	62.0	0.42	1.9	1.9	3.3	3.2	4.5	4.5	18	11
<b>C 36 3_70.8</b>	70.8	0.30	1.8	1.8	3.2	3.1	4.4	4.4	18	11
<b>C 36 3_77.6</b>	77.6	0.28	1.8	1.8	3.2	3.1	4.4	4.4	17	11
<b>C 36 3_83.1</b>	83.1	0.24	1.7	1.7	3.1	3.0	4.3	4.3	—	11
<b>C 36 3_91.9</b>	91.9	0.21	1.7	1.7	3.1	3.0	4.3	4.3	—	11
<b>C 36 3_102.2</b>	102.2	0.19	1.7	1.7	3.1	3.0	4.3	4.3	—	11
<b>C 36 3_111.5</b>	111.5	0.16	1.7	1.7	3.1	3.0	4.3	4.3	—	11
<b>C 36 3_125.8</b>	125.8	0.14	1.6	1.6	3.0	2.9	4.2	4.2	—	11
<b>C 36 3_139.8</b>	139.8	0.11	1.6	1.6	3.0	2.9	4.2	4.2	—	11
<b>C 36 3_162.0</b>	162.0	0.09	1.6	1.6	3.0	2.9	4.2	4.2	—	11
<b>C 36 3_183.5</b>	183.5	0.07	1.6	1.6	3.0	2.9	4.2	4.2	—	11
<b>C 36 3_206.4</b>	206.4	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	11
<b>C 36 4_230.9</b>	230.9	0.08	—	—	—	—	—	—	—	—
<b>C 36 4_255.0</b>	255.0	0.08	1.6	1.6	3.0	2.9	4.2	4.2	—	0.90
<b>C 36 4_290.9</b>	290.9	0.07	1.6	1.6	3.0	2.9	4.2	4.2	—	0.89
<b>C 36 4_318.9</b>	318.9	0.07	1.6	1.6	3.0	2.9	4.2	4.2	—	0.89
<b>C 36 4_341.7</b>	341.7	0.07	1.6	1.6	3.0	2.9	4.2	4.2	—	0.89
<b>C 36 4_377.9</b>	377.9	0.07	1.6	1.6	3.0	2.9	4.2	4.2	—	0.89
<b>C 36 4_420.2</b>	420.2	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	0.88
<b>C 36 4_458.4</b>	458.4	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	0.88
<b>C 36 4_517.2</b>	517.2	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	0.88
<b>C 36 4_574.7</b>	574.7	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	0.88
<b>C 36 4_665.9</b>	665.9	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	0.88
<b>C 36 4_754.2</b>	754.2	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	0.88
<b>C 36 4_848.5</b>	848.5	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	0.88




## C 36

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]					
			 NEMA				
			N56C	N140TC	N180TC	N210TC	
<b>C 36 2_2.7</b>	2.7	3.6	—	—	6.5	22	14
<b>C 36 2_3.2</b>	3.2	2.5	—	—	5.4	21	13
<b>C 36 2_3.5</b>	3.5	2.4	—	—	5.3	20	13
<b>C 36 2_4.2</b>	4.2	1.6	—	—	4.5	20	12
<b>C 36 2_4.6</b>	4.6	1.5	3.0	3.0	4.4	19	12
<b>C 36 2_5.3</b>	5.3	1.1	2.6	2.6	4.0	19	12
<b>C 36 2_5.8</b>	5.8	0.98	2.5	2.5	3.9	19	12
<b>C 36 2_6.8</b>	6.8	2.2	—	—	5.1	20	13
<b>C 36 2_8.0</b>	8.0	1.6	—	—	4.4	20	12
<b>C 36 2_8.8</b>	8.8	1.5	—	—	4.4	19	12
<b>C 36 2_10.6</b>	10.6	1.1	—	—	3.9	19	12
<b>C 36 2_11.7</b>	11.7	1.0	2.5	2.5	3.9	19	12
<b>C 36 2_13.3</b>	13.3	0.69	2.2	2.2	3.6	19	11
<b>C 36 2_14.8</b>	14.8	0.68	2.2	2.2	3.6	19	11
<b>C 36 2_17.2</b>	17.2	0.47	2.0	2.0	3.4	18	11
<b>C 36 2_19.0</b>	19.0	0.47	2.0	2.0	3.4	18	11
<b>C 36 3_22.1</b>	22.1	1.8	—	—	4.7	19	12
<b>C 36 3_26.2</b>	26.2	1.3	—	—	4.2	19	12
<b>C 36 3_28.7</b>	28.7	1.3	—	—	4.2	19	12
<b>C 36 3_34.6</b>	34.6	0.88	—	—	3.8	19	11
<b>C 36 3_38.1</b>	38.1	0.90	2.4	2.4	3.8	19	11
<b>C 36 3_43.5</b>	43.5	0.59	2.1	2.1	3.5	19	11
<b>C 36 3_48.2</b>	48.2	0.60	2.1	2.1	3.5	19	11
<b>C 36 3_56.2</b>	56.2	0.41	1.9	1.9	3.3	18	11
<b>C 36 3_62.0</b>	62.0	0.42	1.9	1.9	3.3	18	11
<b>C 36 3_70.8</b>	70.8	0.30	1.8	1.8	3.2	18	11
<b>C 36 3_77.6</b>	77.6	0.28	1.8	1.8	3.2	17	11
<b>C 36 3_83.1</b>	83.1	0.24	1.7	1.7	3.1	—	11
<b>C 36 3_91.9</b>	91.9	0.21	1.7	1.7	3.1	—	11
<b>C 36 3_102.2</b>	102.2	0.19	1.7	1.7	3.1	—	11
<b>C 36 3_111.5</b>	111.5	0.16	1.7	1.7	3.1	—	11
<b>C 36 3_125.8</b>	125.8	0.14	1.6	1.6	3.0	—	11
<b>C 36 3_139.8</b>	139.8	0.11	1.6	1.6	3.0	—	11
<b>C 36 3_162.0</b>	162.0	0.09	1.6	1.6	3.0	—	11
<b>C 36 3_183.5</b>	183.5	0.07	1.6	1.6	3.0	—	11
<b>C 36 3_206.4</b>	206.4	0.06	1.6	1.6	3.0	—	11
<b>C 36 4_230.9</b>	230.9	0.08	—	—	—	—	—
<b>C 36 4_255.0</b>	255.0	0.08	1.6	1.6	3.0	—	0.90
<b>C 36 4_290.9</b>	290.9	0.07	1.6	1.6	3.0	—	0.89
<b>C 36 4_318.9</b>	318.9	0.07	1.6	1.6	3.0	—	0.89
<b>C 36 4_341.7</b>	341.7	0.07	1.6	1.6	3.0	—	0.89
<b>C 36 4_377.9</b>	377.9	0.07	1.6	1.6	3.0	—	0.89
<b>C 36 4_420.2</b>	420.2	0.06	1.6	1.6	3.0	—	0.88
<b>C 36 4_458.4</b>	458.4	0.06	1.6	1.6	3.0	—	0.88
<b>C 36 4_517.2</b>	517.2	0.06	1.6	1.6	3.0	—	0.88
<b>C 36 4_574.7</b>	574.7	0.06	1.6	1.6	3.0	—	0.88
<b>C 36 4_665.9</b>	665.9	0.06	1.6	1.6	3.0	—	0.88
<b>C 36 4_754.2</b>	754.2	0.06	1.6	1.6	3.0	—	0.88
<b>C 36 4_848.5</b>	848.5	0.06	1.6	1.6	3.0	—	0.88



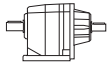


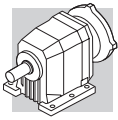
# C 36

		J (•10 <sup>-4</sup> ) [kgm <sup>2</sup> ]											
		 <b>SERVO</b>											
	i	60A		60B 80A		95A		80C 95B 110A		95C 110B		130A	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 36 2_2.7	2.7	—	—	—	—	—	—	6.5	7.0	6.4	7.4	6.4	7.4
C 36 2_3.2	3.2	—	—	—	—	—	—	5.4	5.9	5.3	6.3	5.3	6.3
C 36 2_3.5	3.5	—	—	—	—	—	—	5.3	5.8	5.2	6.2	5.2	6.2
C 36 2_4.2	4.2	—	—	—	—	—	—	4.5	5.0	4.4	5.4	4.4	5.4
C 36 2_4.6	4.6	1.8	2.0	1.8	2.2	4.3	4.7	4.4	4.9	4.3	5.3	4.3	5.3
C 36 2_5.3	5.3	1.4	1.6	1.4	1.8	3.9	4.4	4.0	4.5	3.9	4.9	3.9	4.9
C 36 2_5.8	5.8	1.3	1.5	1.3	1.7	3.8	4.2	3.9	4.4	3.8	4.8	3.8	4.8
C 36 2_6.8	6.8	—	—	—	—	—	—	5.1	5.6	5.0	6.0	5.0	6.0
C 36 2_8.0	8.0	—	—	—	—	—	—	4.4	4.9	4.3	5.3	4.3	5.3
C 36 2_8.8	8.8	—	—	—	—	—	—	4.4	4.9	4.3	5.3	4.3	5.3
C 36 2_10.6	10.6	—	—	—	—	—	—	3.9	4.4	3.8	4.8	3.8	4.8
C 36 2_11.7	11.7	1.3	1.5	1.3	1.7	3.8	4.3	3.9	4.4	3.8	4.8	3.8	4.8
C 36 2_13.3	13.3	0.96	1.2	0.98	1.4	3.5	3.9	3.6	4.1	3.5	4.5	3.5	4.5
C 36 2_14.8	14.8	0.95	1.2	0.97	1.4	3.5	3.9	3.6	4.1	3.5	4.5	3.5	4.5
C 36 2_17.2	17.2	0.74	1.0	0.76	1.2	3.3	3.7	3.4	3.9	3.3	4.3	3.3	4.3
C 36 2_19.0	19.0	0.74	1.0	0.76	1.2	3.3	3.7	3.4	3.9	3.3	4.3	3.3	4.3
C 36 3_22.1	22.1	—	—	—	—	—	—	4.7	5.2	4.6	5.6	4.6	5.6
C 36 3_26.2	26.2	—	—	—	—	—	—	4.2	4.7	4.1	5.1	4.1	5.1
C 36 3_28.7	28.7	—	—	—	—	—	—	4.2	4.7	4.1	5.1	4.1	5.1
C 36 3_34.6	34.6	—	—	—	—	—	—	3.8	4.3	3.7	4.7	3.7	4.7
C 36 3_38.1	38.1	1.2	1.4	1.2	1.6	3.7	4.2	3.8	4.3	3.7	4.7	3.7	4.7
C 36 3_43.5	43.5	0.86	1.1	0.88	1.3	3.4	3.8	3.5	4.0	3.4	4.4	3.4	4.4
C 36 3_48.2	48.2	0.87	1.1	0.89	1.3	3.4	3.9	3.5	4.0	3.4	4.4	3.4	4.4
C 36 3_56.2	56.2	0.68	0.94	0.70	1.1	3.2	3.7	3.3	3.8	3.2	4.2	3.2	4.2
C 36 3_62.0	62.0	0.69	0.95	0.71	1.1	3.2	3.7	3.3	3.8	3.2	4.2	3.2	4.2
C 36 3_70.8	70.8	0.57	0.83	0.59	1.0	3.1	3.6	3.2	3.7	3.1	4.1	3.1	4.1
C 36 3_77.6	77.6	0.55	0.81	0.57	1.0	3.1	3.5	3.2	3.7	3.1	4.1	3.1	4.1
C 36 3_83.1	83.1	0.51	0.77	0.53	0.97	3.1	3.5	3.1	3.6	3.0	4.0	3.0	4.0
C 36 3_91.9	91.9	0.48	0.74	0.50	0.94	3.0	3.5	3.1	3.6	3.0	4.0	3.0	4.0
C 36 3_102.2	102.2	0.46	0.72	0.48	0.92	3.0	3.4	3.1	3.6	3.0	4.0	3.0	4.0
C 36 3_111.5	111.5	0.43	0.69	0.45	0.89	3.0	3.4	3.1	3.6	3.0	4.0	3.0	4.0
C 36 3_125.8	125.8	0.41	0.67	0.43	0.87	3.0	3.4	3.0	3.5	2.9	3.9	2.9	3.9
C 36 3_139.8	139.8	0.38	0.64	0.40	0.84	2.9	3.4	3.0	3.5	2.9	3.9	2.9	3.9
C 36 3_162.0	162.0	0.36	0.62	0.38	0.82	2.9	3.3	3.0	3.5	2.9	3.9	2.9	3.9
C 36 3_183.5	183.5	0.34	0.60	0.36	0.80	2.9	3.3	3.0	3.5	2.9	3.9	2.9	3.9
C 36 3_206.4	206.4	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	2.9	3.9
C 36 4_230.9	230.9	0.35	0.61	0.37	0.81	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_255.0	255.0	0.35	0.61	0.37	0.81	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_290.9	290.9	0.34	0.60	0.36	0.80	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_318.9	318.9	0.34	0.60	0.36	0.80	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_341.7	341.7	0.34	0.60	0.36	0.80	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_377.9	377.9	0.34	0.60	0.36	0.80	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_420.2	420.2	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_458.4	458.4	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_517.2	517.2	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_574.7	574.7	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_665.9	665.9	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_754.2	754.2	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_848.5	848.5	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—



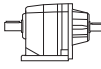


# C 41

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]								
			IEC 							
			63	71	80	90	100	112	132	
C 41 2_2.7	2.7	10	—	—	13	13	14	14	29	21
C 41 2_3.6	3.6	6.0	—	—	8.9	8.8	10	10	25	17
C 41 2_4.7	4.7	3.7	—	—	6.6	6.5	7.8	7.8	23	14
C 41 2_6.0	6.0	2.5	—	—	5.4	5.3	6.6	6.6	21	13
C 41 2_6.4	6.4	4.3	—	—	7.2	7.1	8.4	8.4	23	15
C 41 2_7.1	7.1	4.1	—	—	7.0	6.9	8.2	8.2	23	15
C 41 2_8.6	8.6	2.9	—	—	5.8	5.7	7.0	7.0	22	13
C 41 2_9.6	9.6	2.8	—	—	5.7	5.6	6.9	6.9	22	13
C 41 2_11.2	11.2	1.8	—	—	4.7	4.6	5.9	5.9	21	12
C 41 2_12.4	12.4	1.8	—	—	4.7	4.6	5.9	5.9	21	12
C 41 2_14.2	14.2	1.4	2.9	2.9	4.3	4.2	5.5	5.5	20	12
C 41 2_15.8	15.8	1.3	2.8	2.8	4.2	4.1	5.4	5.4	20	12
C 41 2_17.8	17.8	1.0	2.5	2.5	3.9	3.8	5.1	5.1	20	12
C 41 2_19.8	19.8	0.98	2.5	2.5	3.9	3.8	5.1	5.1	20	12
C 41 2_22.6	22.6	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	11
C 41 2_25.0	25.0	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	11
C 41 2_28.3	28.3	0.44	1.9	1.9	3.3	3.2	4.5	4.5	19	11
C 41 2_31.4	31.4	0.43	1.9	1.9	3.3	3.2	4.5	4.5	19	11
C 41 2_33.4	33.4	0.34	1.8	1.8	3.2	3.1	4.4	4.4	—	11
C 41 2_37.1	37.1	0.33	1.8	1.8	3.2	3.1	4.4	4.4	—	11
C 41 2_44.8	44.8	0.27	1.8	1.8	3.2	3.1	4.4	4.4	—	11
C 41 3_28.5	28.5	2.5	—	—	5.4	5.3	6.6	6.6	21	13
C 41 3_31.2	31.2	2.5	—	—	5.4	5.3	6.6	6.6	21	13
C 41 3_36.8	36.8	1.6	—	—	4.5	4.4	5.7	5.7	21	12
C 41 3_40.3	40.3	1.6	—	—	4.5	4.4	5.7	5.7	21	12
C 41 3_47.0	47.0	1.2	2.7	2.7	4.1	4.0	5.3	5.3	20	12
C 41 3_51.5	51.5	1.2	2.7	2.7	4.1	4.0	5.3	5.3	20	12
C 41 3_58.7	58.7	0.90	2.4	2.4	3.8	3.7	5.0	5.0	20	11
C 41 3_64.3	64.3	0.90	2.4	2.4	3.8	3.7	5.0	5.0	20	11
C 41 3_74.4	74.4	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	11
C 41 3_81.5	81.5	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	11
C 41 3_93.9	93.9	0.40	1.9	1.9	3.3	3.2	4.5	4.5	19	11
C 41 3_102.3	102.3	0.40	1.9	1.9	3.3	3.2	4.5	4.5	19	11
C 41 3_110.1	110.1	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	11
C 41 3_120.6	120.6	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	11
C 41 3_132.9	132.9	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	11
C 41 3_145.6	145.6	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	11
C 41 3_164.1	164.1	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	11
C 41 3_179.9	179.9	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	11
C 41 3_190.8	190.8	0.10	1.6	1.6	3.0	2.9	4.2	4.2	—	11
C 41 3_209.1	209.1	0.10	1.6	1.6	3.0	2.9	4.2	4.2	—	11
C 41 4_239.9	239.9	0.15	1.7	1.7	3.1	3.0	4.3	4.3	—	2.1
C 41 4_263.0	263.0	0.15	1.7	1.7	3.1	3.0	4.3	4.3	—	2.1
C 41 4_304.2	304.2	0.13	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_333.4	333.4	0.13	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_382.0	382.0	0.12	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_419.0	419.0	0.12	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_450.2	450.2	0.12	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_493.5	493.5	0.12	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_543.5	543.5	0.12	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_595.8	595.8	0.12	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_671.3	671.3	0.10	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_735.9	735.9	0.10	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_780.4	780.4	0.10	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_855.5	855.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0




# C 41

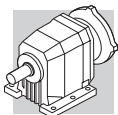
	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]					
			NEMA 				
			N56C	N140TC	N180TC		N210TC
C 41 2_2.7	2.7	10	—	—	13	29	21
C 41 2_3.6	3.6	6.0	—	—	8.9	25	17
C 41 2_4.7	4.7	3.7	—	—	6.6	23	14
C 41 2_6.0	6.0	2.5	—	—	5.4	21	13
C 41 2_6.4	6.4	4.3	—	—	7.2	23	15
C 41 2_7.1	7.1	4.1	—	—	7.0	23	15
C 41 2_8.6	8.6	2.9	—	—	5.8	22	13
C 41 2_9.6	9.6	2.8	—	—	5.7	22	13
C 41 2_11.2	11.2	1.8	—	—	4.7	21	12
C 41 2_12.4	12.4	1.8	—	—	4.7	21	12
C 41 2_14.2	14.2	1.4	2.9	2.9	4.3	20	12
C 41 2_15.8	15.8	1.3	2.8	2.8	4.2	20	12
C 41 2_17.8	17.8	1.0	2.5	2.5	3.9	20	12
C 41 2_19.8	19.8	0.98	2.5	2.5	3.9	20	12
C 41 2_22.6	22.6	0.60	2.1	2.1	3.5	20	11
C 41 2_25.0	25.0	0.60	2.1	2.1	3.5	20	11
C 41 2_28.3	28.3	0.44	1.9	1.9	3.3	19	11
C 41 2_31.4	31.4	0.43	1.9	1.9	3.3	19	11
C 41 2_33.4	33.4	0.34	1.8	1.8	3.2	—	11
C 41 2_37.1	37.1	0.33	1.8	1.8	3.2	—	11
C 41 2_44.8	44.8	0.27	1.8	1.8	3.2	—	11
C 41 3_28.5	28.5	2.5	—	—	5.4	21	13
C 41 3_31.2	31.2	2.5	—	—	5.4	21	13
C 41 3_36.8	36.8	1.6	—	—	4.5	21	12
C 41 3_40.3	40.3	1.6	—	—	4.5	21	12
C 41 3_47.0	47.0	1.2	2.7	2.7	4.1	20	12
C 41 3_51.5	51.5	1.2	2.7	2.7	4.1	20	12
C 41 3_58.7	58.7	0.90	2.4	2.4	3.8	20	11
C 41 3_64.3	64.3	0.90	2.4	2.4	3.8	20	11
C 41 3_74.4	74.4	0.60	2.1	2.1	3.5	20	11
C 41 3_81.5	81.5	0.60	2.1	2.1	3.5	20	11
C 41 3_93.9	93.9	0.40	1.9	1.9	3.3	19	11
C 41 3_102.3	102.3	0.40	1.9	1.9	3.3	19	11
C 41 3_110.1	110.1	0.30	1.8	1.8	3.2	—	11
C 41 3_120.6	120.6	0.30	1.8	1.8	3.2	—	11
C 41 3_132.9	132.9	0.30	1.8	1.8	3.2	—	11
C 41 3_145.6	145.6	0.30	1.8	1.8	3.2	—	11
C 41 3_164.1	164.1	0.20	1.7	1.7	3.1	—	11
C 41 3_179.9	179.9	0.20	1.7	1.7	3.1	—	11
C 41 3_190.8	190.8	0.10	1.6	1.6	3.0	—	11
C 41 3_209.1	209.1	0.10	1.6	1.6	3.0	—	11
C 41 4_239.9	239.9	0.15	1.7	1.7	3.1	—	2.1
C 41 4_263.0	263.0	0.15	1.7	1.7	3.1	—	2.1
C 41 4_304.2	304.2	0.13	1.6	1.6	3.0	—	2.0
C 41 4_333.4	333.4	0.13	1.6	1.6	3.0	—	2.0
C 41 4_382.0	382.0	0.12	1.6	1.6	3.0	—	2.0
C 41 4_419.0	419.0	0.12	1.6	1.6	3.0	—	2.0
C 41 4_450.2	450.2	0.12	1.6	1.6	3.0	—	2.0
C 41 4_493.5	493.5	0.12	1.6	1.6	3.0	—	2.0
C 41 4_543.5	543.5	0.12	1.6	1.6	3.0	—	2.0
C 41 4_595.8	595.8	0.12	1.6	1.6	3.0	—	2.0
C 41 4_671.3	671.3	0.10	1.6	1.6	3.0	—	2.0
C 41 4_735.9	735.9	0.10	1.6	1.6	3.0	—	2.0
C 41 4_780.4	780.4	0.10	1.6	1.6	3.0	—	2.0
C 41 4_855.5	855.5	0.10	1.6	1.6	3.0	—	2.0








# C 41

		J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]																	
		 <b>SERVO</b>																	
i		60A		60B 80A		80B		95A		80C 95B 110A		95C 110B		130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 41 2_2.7	2.7	—	—	—	—	—	—	—	—	13	14	13	14	13	14	27	29	29	34
C 41 2_3.6	3.6	—	—	—	—	—	—	—	—	8.9	9.4	8.8	9.8	8.8	9.8	23	25	25	30
C 41 2_4.7	4.7	—	—	—	—	—	—	—	—	6.6	7.1	6.5	7.5	6.5	7.5	21	23	23	28
C 41 2_6.0	6.0	—	—	—	—	5.3	5.8	5.3	5.8	5.4	5.9	5.3	6.3	5.3	6.3	19	22	21	26
C 41 2_6.4	6.4	—	—	—	—	—	—	—	—	7.2	7.7	7.1	8.1	7.1	8.1	21	24	23	28
C 41 2_7.1	7.1	—	—	—	—	—	—	—	—	7.0	7.5	6.9	7.9	6.9	7.9	21	24	23	28
C 41 2_8.6	8.6	—	—	—	—	—	—	—	—	5.8	6.3	5.7	6.7	5.7	6.7	20	22	22	27
C 41 2_9.6	9.6	—	—	—	—	—	—	—	—	5.7	6.2	5.6	6.6	5.6	6.6	20	22	22	27
C 41 2_11.2	11.2	—	—	—	—	—	—	—	—	4.7	5.2	4.6	5.6	4.6	5.6	19	21	21	26
C 41 2_12.4	12.4	—	—	—	—	—	—	—	—	4.7	5.2	4.6	5.6	4.6	5.6	19	21	21	26
C 41 2_14.2	14.2	—	—	—	—	4.2	4.7	4.2	4.7	4.3	4.8	4.2	5.2	4.2	5.2	18	21	20	25
C 41 2_15.8	15.8	—	—	—	—	4.1	4.6	4.1	4.6	4.2	4.7	4.1	5.1	4.1	5.1	18	21	20	25
C 41 2_17.8	17.8	—	—	—	—	3.8	5.3	3.8	5.3	3.9	4.4	3.8	4.8	3.8	4.8	18	20	20	25
C 41 2_19.8	19.8	—	—	—	—	3.8	4.2	3.8	4.2	3.9	4.4	3.8	4.8	3.8	4.8	18	20	20	25
C 41 2_22.6	22.6	—	—	—	—	3.4	3.9	3.4	3.9	3.5	4.0	3.4	4.4	3.4	4.4	18	20	20	25
C 41 2_25.0	25.0	—	—	—	—	3.4	3.9	3.4	3.9	3.5	4.0	3.4	4.4	3.4	4.4	18	20	20	25
C 41 2_28.3	28.3	—	—	—	—	3.3	3.7	3.3	3.7	3.3	3.8	3.2	4.2	3.2	4.2	17	20	19	24
C 41 2_31.4	31.4	—	—	—	—	3.3	3.7	3.3	3.7	3.3	3.8	3.2	4.2	3.2	4.2	17	20	19	24
C 41 2_33.4	33.4	—	—	—	—	3.2	3.6	3.2	3.6	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—
C 41 2_37.1	37.1	—	—	—	—	3.2	3.6	3.2	3.6	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—
C 41 2_44.8	44.8	—	—	—	—	3.1	3.5	3.1	3.5	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—
C 41 3_28.5	28.5	—	—	—	—	—	—	—	—	5.4	5.9	5.3	6.3	5.3	6.3	19	22	21	26
C 41 3_31.2	31.2	—	—	—	—	—	—	—	—	5.4	5.9	5.3	6.3	5.3	6.3	19	22	21	26
C 41 3_36.8	36.8	—	—	—	—	—	—	—	—	4.5	5.0	4.4	5.4	4.4	5.4	19	21	21	26
C 41 3_40.3	40.3	—	—	—	—	—	—	—	—	4.5	5.0	4.4	5.4	4.4	5.4	19	21	21	26
C 41 3_47.0	47.0	—	—	—	—	4.0	4.5	4.0	4.5	4.1	4.6	4.0	5.0	4.0	5.0	18	21	20	25
C 41 3_51.5	51.5	—	—	—	—	4.0	4.5	4.0	4.5	4.1	4.6	4.0	5.0	4.0	5.0	18	21	20	25
C 41 3_58.7	58.7	—	—	—	—	3.7	4.2	3.7	4.2	3.8	4.3	3.7	4.7	3.7	4.7	18	20	20	25
C 41 3_64.3	64.3	—	—	—	—	3.7	4.2	3.7	4.2	3.8	4.3	3.7	4.7	3.7	4.7	18	20	20	25
C 41 3_74.4	74.4	—	—	—	—	3.4	3.9	3.4	3.9	3.5	4.0	3.4	4.4	3.4	4.4	18	20	20	25
C 41 3_81.5	81.5	—	—	—	—	3.4	3.9	3.4	3.9	3.5	4.0	3.4	4.4	3.4	4.4	18	20	20	25
C 41 3_93.9	93.9	—	—	—	—	3.2	3.7	3.2	3.7	3.3	3.8	3.2	4.2	3.2	4.2	17	20	19	24
C 41 3_102.3	102.3	—	—	—	—	3.2	3.7	3.2	3.7	3.3	3.8	3.2	4.2	3.2	4.2	17	20	19	24
C 41 3_110.1	110.1	—	—	—	—	3.1	3.6	3.1	3.6	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—
C 41 3_120.6	120.6	—	—	—	—	3.1	3.6	3.1	3.6	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—
C 41 3_132.9	132.9	—	—	—	—	3.1	3.6	3.1	3.6	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—
C 41 3_145.6	145.6	—	—	—	—	3.1	3.6	3.1	3.6	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—
C 41 3_164.1	164.1	—	—	—	—	3.0	3.5	3.0	3.5	3.1	3.6	3.0	4.0	3.0	4.0	—	—	—	—
C 41 3_179.9	179.9	—	—	—	—	3.0	3.5	3.0	3.5	3.1	3.6	3.0	4.0	3.0	4.0	—	—	—	—
C 41 3_190.8	190.8	—	—	—	—	2.9	3.4	2.9	3.4	3.0	3.5	2.9	3.9	2.9	3.9	—	—	—	—
C 41 3_209.1	209.1	—	—	—	—	2.9	3.4	2.9	3.4	3.0	3.5	2.9	3.9	2.9	3.9	—	—	—	—
C 41 4_239.9	239.9	0.42	0.68	0.44	0.88	—	—	3.0	3.4	3.1	3.6	3.0	4.0	—	—	—	—	—	—
C 41 4_263.0	263.0	0.42	0.68	0.44	0.88	—	—	3.0	3.4	3.1	3.6	3.0	4.0	—	—	—	—	—	—
C 41 4_304.2	304.2	0.40	0.66	0.42	0.86	—	—	3.0	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_333.4	333.4	0.40	0.66	0.42	0.86	—	—	3.0	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_382.0	382.0	0.39	0.65	0.41	0.85	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_419.0	419.0	0.39	0.65	0.41	0.85	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_450.2	450.2	0.39	0.65	0.41	0.85	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_493.5	493.5	0.39	0.65	0.41	0.85	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_543.5	543.5	0.39	0.65	0.41	0.85	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_595.8	595.8	0.39	0.65	0.41	0.85	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_671.3	671.3	0.37	0.63	0.39	0.83	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_735.9	735.9	0.37	0.63	0.39	0.83	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_780.4	780.4	0.37	0.63	0.39	0.83	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_855.5	855.5	0.37	0.63	0.39	0.83	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—



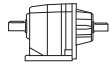


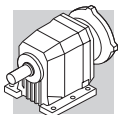
# C 51

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]										
			 IEC									
			63	71	80	90	100	112	132	160		180
C 51 2_2.6	2.6	15	—	—	17	17	19	19	33	79	76	25
C 51 2_3.3	3.3	10	—	—	13	13	14	14	29	75	72	21
C 51 2_4.5	4.5	6.3	—	—	9.2	9.1	10	10	25	71	68	17
C 51 2_5.6	5.6	4.1	—	—	7.0	6.9	8.2	8.2	23	69	66	15
C 51 2_7.0	7.0	8.1	—	—	11	11	12	12	27	73	70	19
C 51 2_7.8	7.8	7.8	—	—	11	11	12	12	27	73	70	18
C 51 2_8.8	8.8	6.0	—	—	8.9	8.8	10	10	25	71	68	17
C 51 2_9.8	9.8	5.8	—	—	8.7	8.6	9.9	9.9	25	71	68	16
C 51 2_11.8	11.8	4.1	—	—	7.0	6.9	8.2	8.2	23	69	66	15
C 51 2_13.1	13.1	4.0	—	—	6.9	6.8	8.1	8.1	23	69	66	15
C 51 2_15.0	15.0	2.7	—	—	5.6	5.5	6.8	6.8	22	68	65	13
C 51 2_16.6	16.6	2.6	—	—	5.5	5.4	6.7	6.7	22	68	65	13
C 51 2_18.9	18.9	2.0	3.5	3.5	4.9	4.8	6.1	6.1	21	67	64	13
C 51 2_21.0	21.0	1.9	3.4	3.4	4.8	4.7	6.0	6.0	21	67	64	12
C 51 2_23.4	23.4	1.5	3.0	3.0	4.4	4.3	5.6	5.6	20	66	63	12
C 51 2_25.9	25.9	1.4	2.9	2.9	4.3	4.2	5.5	5.5	20	66	63	12
C 51 2_29.8	29.8	0.90	2.4	2.4	3.8	3.7	5.0	5.0	20	66	63	11
C 51 2_33.0	33.0	0.90	2.4	2.4	3.8	3.7	5.0	5.0	20	66	63	11
C 51 2_36.4	36.4	0.70	2.2	2.2	3.6	3.5	4.8	4.8	20	66	63	11
C 51 2_40.4	40.4	0.70	2.2	2.2	3.6	3.5	4.8	4.8	20	66	63	11
C 51 2_43.1	43.1	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 51 2_47.8	47.8	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 51 2_51.4	51.4	0.40	1.9	1.9	3.3	3.2	4.5	4.5	—	—	—	11
C 51 2_57.0	57.0	0.40	1.9	1.9	3.3	3.2	4.5	4.5	—	—	—	11
C 51 3_21.8	21.8	6.8	—	—	9.7	9.6	11	11	26	72	69	17
C 51 3_23.9	23.9	6.8	—	—	9.7	9.6	11	11	26	72	69	17
C 51 3_27.4	27.4	5.2	—	—	8.1	8.0	9.3	9.3	24	70	67	16
C 51 3_30.1	30.1	5.2	—	—	8.1	8.0	9.3	9.3	24	70	67	16
C 51 3_37.0	37.0	3.6	—	—	6.5	6.4	7.7	7.7	23	69	66	14
C 51 3_40.5	40.5	3.6	—	—	6.5	6.4	7.7	7.7	23	69	66	14
C 51 3_46.7	46.7	2.4	—	—	5.3	5.2	6.5	6.5	21	67	64	13
C 51 3_51.2	51.2	2.4	—	—	5.3	5.2	6.5	6.5	21	67	64	13
C 51 3_59.0	59.0	1.8	3.3	3.3	4.7	4.6	5.9	5.9	21	67	64	12
C 51 3_64.6	64.6	1.8	3.3	3.3	4.7	4.6	5.9	5.9	21	67	64	12
C 51 3_72.9	72.9	1.3	2.8	2.8	4.2	4.1	5.4	5.4	20	66	63	12
C 51 3_79.9	79.9	1.3	2.8	2.8	4.2	4.1	5.4	5.4	20	66	63	12
C 51 3_93.0	93.0	0.80	2.3	2.3	3.7	3.6	4.9	4.9	20	66	63	11
C 51 3_101.8	101.8	0.80	2.3	2.3	3.7	3.6	4.9	4.9	20	66	63	11
C 51 3_113.6	113.6	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	66	63	11
C 51 3_124.4	124.4	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	66	63	11
C 51 3_134.6	134.6	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 51 3_147.4	147.4	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 51 3_160.5	160.5	0.40	1.9	1.9	3.3	3.2	4.5	4.5	—	—	—	11
C 51 3_175.8	175.8	0.40	1.9	1.9	3.3	3.2	4.5	4.5	—	—	—	11
C 51 3_197.9	197.9	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	—	—	11
C 51 3_216.7	216.7	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	—	—	11
C 51 4_240.9	240.9	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	—	—	1.2
C 51 4_263.8	263.8	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	—	—	1.2
C 51 4_297.8	297.8	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	—	—	1.2
C 51 4_326.1	326.1	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	—	—	1.2
C 51 4_380.0	380.0	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_416.0	416.0	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_463.9	463.9	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_508.0	508.0	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_549.7	549.7	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_602.0	602.0	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_655.4	655.4	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_717.7	717.7	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_808.0	808.0	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_884.9	884.9	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1




# C 51

	i	J (•10 <sup>-4</sup> ) [kgm <sup>2</sup> ]							
			NEMA 						
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	
C 51 2_2.6	2.6	15	—	—	17	33	79	76	25
C 51 2_3.3	3.3	10	—	—	13	29	75	72	21
C 51 2_4.5	4.5	6.3	—	—	9.2	25	71	68	17
C 51 2_5.6	5.6	4.1	—	—	7.0	23	69	66	15
C 51 2_7.0	7.0	8.1	—	—	11	27	73	70	19
C 51 2_7.8	7.8	7.8	—	—	11	27	73	70	18
C 51 2_8.8	8.8	6.0	—	—	8.9	25	71	68	17
C 51 2_9.8	9.8	5.8	—	—	8.7	25	71	68	16
C 51 2_11.8	11.8	4.1	—	—	7.0	23	69	66	15
C 51 2_13.1	13.1	4.0	—	—	6.9	23	69	66	15
C 51 2_15.0	15.0	2.7	—	—	5.6	22	68	65	13
C 51 2_16.6	16.6	2.6	—	—	5.5	22	68	65	13
C 51 2_18.9	18.9	2.0	3.5	3.5	4.9	21	67	64	13
C 51 2_21.0	21.0	1.9	3.4	3.4	4.8	21	67	64	12
C 51 2_23.4	23.4	1.5	3.0	3.0	4.4	20	66	63	12
C 51 2_25.9	25.9	1.4	2.9	2.9	4.3	20	66	63	12
C 51 2_29.8	29.8	0.90	2.4	2.4	3.8	20	66	63	11
C 51 2_33.0	33.0	0.90	2.4	2.4	3.8	20	66	63	11
C 51 2_36.4	36.4	0.70	2.2	2.2	3.6	20	66	63	11
C 51 2_40.4	40.4	0.70	2.2	2.2	3.6	20	66	63	11
C 51 2_43.1	43.1	0.50	2.0	2.0	3.4	—	—	—	11
C 51 2_47.8	47.8	0.50	2.0	2.0	3.4	—	—	—	11
C 51 2_51.4	51.4	0.40	1.9	1.9	3.3	—	—	—	11
C 51 2_57.0	57.0	0.40	1.9	1.9	3.3	—	—	—	11
C 51 3_21.8	21.8	6.8	—	—	9.7	26	72	69	17
C 51 3_23.9	23.9	6.8	—	—	9.7	26	72	69	17
C 51 3_27.4	27.4	5.2	—	—	8.1	24	70	67	16
C 51 3_30.1	30.1	5.2	—	—	8.1	24	70	67	16
C 51 3_37.0	37.0	3.6	—	—	6.5	23	69	66	14
C 51 3_40.5	40.5	3.6	—	—	6.5	23	69	66	14
C 51 3_46.7	46.7	2.4	—	—	5.3	21	67	64	13
C 51 3_51.2	51.2	2.4	—	—	5.3	21	67	64	13
C 51 3_59.0	59.0	1.8	3.3	3.3	4.7	21	67	64	12
C 51 3_64.6	64.6	1.8	3.3	3.3	4.7	21	67	64	12
C 51 3_72.9	72.9	1.3	2.8	2.8	4.2	20	66	63	12
C 51 3_79.9	79.9	1.3	2.8	2.8	4.2	20	66	63	12
C 51 3_93.0	93.0	0.80	2.3	2.3	3.7	20	66	63	11
C 51 3_101.8	101.8	0.80	2.3	2.3	3.7	20	66	63	11
C 51 3_113.6	113.6	0.60	2.1	2.1	3.5	20	66	63	11
C 51 3_124.4	124.4	0.60	2.1	2.1	3.5	20	66	63	11
C 51 3_134.6	134.6	0.50	2.0	2.0	3.4	—	—	—	11
C 51 3_147.4	147.4	0.50	2.0	2.0	3.4	—	—	—	11
C 51 3_160.5	160.5	0.40	1.9	1.9	3.3	—	—	—	11
C 51 3_175.8	175.8	0.40	1.9	1.9	3.3	—	—	—	11
C 51 3_197.9	197.9	0.30	1.8	1.8	3.2	—	—	—	11
C 51 3_216.7	216.7	0.30	1.8	1.8	3.2	—	—	—	11
C 51 4_240.9	240.9	0.30	1.8	1.8	3.2	—	—	—	1.2
C 51 4_263.8	263.8	0.30	1.8	1.8	3.2	—	—	—	1.2
C 51 4_297.8	297.8	0.30	1.8	1.8	3.2	—	—	—	1.2
C 51 4_326.1	326.1	0.30	1.8	1.8	3.2	—	—	—	1.2
C 51 4_380.0	380.0	0.20	1.7	1.7	3.1	—	—	—	1.1
C 51 4_416.0	416.0	0.20	1.7	1.7	3.1	—	—	—	1.1
C 51 4_463.9	463.9	0.20	1.7	1.7	3.1	—	—	—	1.1
C 51 4_508.0	508.0	0.20	1.7	1.7	3.1	—	—	—	1.1
C 51 4_549.7	549.7	0.20	1.7	1.7	3.1	—	—	—	1.1
C 51 4_602.0	602.0	0.20	1.7	1.7	3.1	—	—	—	1.1
C 51 4_655.4	655.4	0.20	1.7	1.7	3.1	—	—	—	1.1
C 51 4_717.7	717.7	0.20	1.7	1.7	3.1	—	—	—	1.1
C 51 4_808.0	808.0	0.20	1.7	1.7	3.1	—	—	—	1.1
C 51 4_884.9	884.9	0.20	1.7	1.7	3.1	—	—	—	1.1






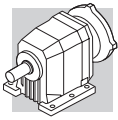
# C 51

		J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]											
		 <b>SERVO</b>											
i		80B		95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 51 2_2.6	2.6	—	—	—	—	17	18	17	18	32	34	33	38
C 51 2_3.3	3.3	—	—	—	—	13	14	13	14	27	29	29	34
C 51 2_4.5	4.5	—	—	—	—	9.2	9.7	9.1	10	23	26	25	30
C 51 2_5.6	5.6	—	—	—	—	7.0	7.5	6.9	7.9	21	24	23	28
C 51 2_7.0	7.0	—	—	—	—	11	12	11	12	25	28	27	32
C 51 2_7.8	7.8	—	—	—	—	11	12	11	12	25	27	27	32
C 51 2_8.8	8.8	—	—	—	—	8.9	9.4	8.8	9.8	23	25	25	30
C 51 2_9.8	9.8	—	—	—	—	8.7	9.2	8.6	9.6	23	25	25	30
C 51 2_11.8	11.8	—	—	—	—	7.0	7.5	6.9	7.9	21	24	23	28
C 51 2_13.1	13.1	—	—	—	—	6.9	7.4	6.8	7.8	21	23	23	28
C 51 2_15.0	15.0	—	—	—	—	5.6	6.1	5.5	6.5	20	22	22	27
C 51 2_16.6	16.6	—	—	—	—	5.5	6.0	5.4	6.4	20	22	22	27
C 51 2_18.9	18.9	4.8	5.3	4.8	5.3	4.9	5.4	4.8	5.8	19	21	21	26
C 51 2_21.0	21.0	4.7	5.2	4.7	5.2	4.8	5.3	4.7	5.7	19	21	21	26
C 51 2_23.4	23.4	4.3	4.8	4.3	4.8	4.4	4.3	4.3	5.3	18	21	20	25
C 51 2_25.9	25.9	4.2	4.7	4.2	4.7	4.3	4.8	4.2	5.2	18	21	20	25
C 51 2_29.8	29.8	3.7	4.2	3.7	4.2	3.8	4.3	3.7	4.7	18	20	20	25
C 51 2_33.0	33.0	3.7	4.2	3.7	4.2	3.8	4.3	3.7	4.7	18	20	20	25
C 51 2_36.4	36.4	3.5	4.0	3.5	4.0	3.6	4.1	3.5	4.5	18	20	20	25
C 51 2_40.4	40.4	3.5	4.0	3.5	4.0	3.6	4.1	3.5	4.5	18	20	20	25
C 51 2_43.1	43.1	3.3	3.8	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 51 2_47.8	47.8	3.3	3.8	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 51 2_51.4	51.4	3.2	3.7	3.2	3.7	3.3	3.8	3.2	4.2	—	—	—	—
C 51 2_57.0	57.0	3.2	3.7	3.2	3.7	3.3	3.8	3.2	4.2	—	—	—	—
C 51 3_21.8	21.8	—	—	—	—	9.7	10	9.6	11	24	26	26	31
C 51 3_23.9	23.9	—	—	—	—	9.7	10	9.6	11	24	26	26	31
C 51 3_27.4	27.4	—	—	—	—	8.1	8.6	8.0	9.0	22	25	24	29
C 51 3_30.1	30.1	—	—	—	—	8.1	8.6	8.0	9.0	22	25	24	29
C 51 3_37.0	37.0	—	—	—	—	6.5	7.0	6.4	7.4	21	23	23	28
C 51 3_40.5	40.5	—	—	—	—	6.5	7.0	6.4	7.4	21	23	23	28
C 51 3_46.7	46.7	—	—	—	—	5.3	5.8	5.2	6.2	19	22	21	26
C 51 3_51.2	51.2	—	—	—	—	5.3	5.8	5.2	6.2	19	22	21	26
C 51 3_59.0	59.0	4.6	5.1	4.6	5.1	4.7	5.2	4.6	5.6	19	21	21	26
C 51 3_64.6	64.6	4.6	5.1	4.6	5.1	4.7	5.2	4.6	5.6	19	21	21	26
C 51 3_72.9	72.9	4.1	4.6	4.1	4.6	4.2	5.2	4.1	5.1	18	21	20	25
C 51 3_79.9	79.9	4.1	4.6	4.1	4.6	4.2	5.2	4.1	5.1	18	21	20	25
C 51 3_93.0	93.0	3.6	4.1	3.6	4.1	3.7	4.2	3.6	4.6	18	20	20	25
C 51 3_101.8	101.8	3.6	4.1	3.6	4.1	3.7	4.2	3.6	4.6	18	20	20	25
C 51 3_113.6	113.6	3.4	3.9	3.4	3.9	3.5	4.0	3.4	4.4	18	20	20	25
C 51 3_124.4	124.4	3.4	3.9	3.4	3.9	3.5	4.0	3.4	4.4	18	20	20	25
C 51 3_134.6	134.6	3.3	3.8	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 51 3_147.4	147.4	3.3	3.8	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 51 3_160.5	160.5	3.2	3.7	3.2	3.7	3.3	3.8	3.2	4.2	—	—	—	—
C 51 3_175.8	175.8	3.2	3.7	3.2	3.7	3.3	3.8	3.2	4.2	—	—	—	—
C 51 3_197.9	197.9	3.1	3.6	3.1	3.6	3.2	3.7	3.1	4.1	—	—	—	—
C 51 3_216.7	216.7	3.1	3.6	3.1	3.6	3.2	3.7	3.1	4.1	—	—	—	—
C 51 4_240.9	240.9	—	—	3.1	3.6	3.2	3.7	3.1	4.1	—	—	—	—
C 51 4_263.8	263.8	—	—	3.1	3.6	3.2	3.7	3.1	4.1	—	—	—	—
C 51 4_297.8	297.8	—	—	3.1	3.6	3.2	3.7	3.1	4.1	—	—	—	—
C 51 4_326.1	326.1	—	—	3.1	3.6	3.2	3.7	3.1	4.1	—	—	—	—
C 51 4_380.0	380.0	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_416.0	416.0	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_463.9	463.9	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_508.0	508.0	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_549.7	549.7	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_602.0	602.0	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_655.4	655.4	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_717.7	717.7	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_808.0	808.0	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_884.9	884.9	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—



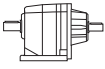


# C 61

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]										
			 IEC									
			63	71	80	90	100	112	132	160		180
C 61 2_2.8	2.8	30	—	—	—	—	—	—	49	78	76	52
C 61 2_3.7	3.7	19	—	—	22	22	23	23	38	78	76	41
C 61 2_4.6	4.6	14	—	—	17	17	18	18	33	78	76	36
C 61 2_6.0	6.0	8.8	—	—	12	12	13	13	28	78	76	31
C 61 2_6.7	6.7	14	—	—	—	—	—	—	33	78	76	36
C 61 2_7.5	7.5	13	—	—	—	—	—	—	32	78	76	35
C 61 2_8.8	8.8	13	—	—	16	16	17	17	32	78	76	35
C 61 2_9.8	9.8	12	—	—	15	15	16	16	31	78	76	34
C 61 2_10.9	10.9	9.6	—	—	13	12	14	14	29	78	76	31
C 61 2_12.1	12.1	9.2	—	—	12	12	13	13	28	78	76	31
C 61 2_14.3	14.3	5.8	—	—	8.7	8.6	9.9	9.9	25	78	76	28
C 61 2_15.9	15.9	5.6	—	—	8.5	8.4	9.7	9.7	25	78	76	27
C 61 2_17.7	17.7	4.4	—	—	7.3	7.2	8.5	8.5	23	78	76	26
C 61 2_19.6	19.6	4.3	—	—	7.2	7.1	8.4	8.4	23	78	76	26
C 61 2_22.4	22.4	3.2	4.7	4.7	6.1	6.0	7.3	7.3	22	78	76	25
C 61 2_24.8	24.8	3.1	4.6	4.6	6.0	5.9	7.2	7.2	22	78	76	25
C 61 2_27.4	27.4	2.1	3.6	3.6	5.0	4.9	6.2	6.2	21	78	76	24
C 61 2_30.4	30.4	2.2	3.7	3.7	5.1	5.0	6.3	6.3	21	78	76	24
C 61 2_34.2	34.2	1.5	3.0	3.0	4.4	4.3	5.6	5.6	20	78	76	23
C 61 2_38.0	38.0	1.5	3.0	3.0	4.4	4.3	5.6	5.6	20	78	76	23
C 61 3_26.8	26.8	10	—	—	13	13	14	14	29	78	76	32
C 61 3_29.4	29.4	10	—	—	13	13	14	14	29	78	76	32
C 61 3_33.0	33.0	8.1	—	—	11	11	12	12	27	78	76	30
C 61 3_36.1	36.1	8.1	—	—	11	11	12	12	27	78	76	30
C 61 3_43.4	43.4	5.0	—	—	7.9	7.8	9.1	9.1	24	78	76	27
C 61 3_47.6	47.6	5.0	—	—	7.9	7.8	9.1	9.1	24	78	76	27
C 61 3_53.5	53.5	3.9	—	—	6.8	6.7	8.0	8.0	23	78	76	26
C 61 3_58.6	58.6	3.8	—	—	6.7	6.6	7.9	7.9	23	78	76	26
C 61 3_67.7	67.7	2.8	4.3	4.3	5.7	5.6	6.9	6.9	22	78	76	25
C 61 3_74.2	74.2	2.8	4.3	4.3	5.7	5.6	6.9	6.9	22	78	76	25
C 61 3_83.0	83.0	1.9	3.4	3.4	4.8	4.7	6.0	6.0	21	78	76	24
C 61 3_91.0	91.0	1.9	3.4	3.4	4.8	4.7	6.0	6.0	21	78	76	24
C 61 3_103.6	103.6	1.3	2.8	2.8	4.2	4.1	5.4	5.4	20	78	76	23
C 61 3_113.6	113.6	1.3	2.8	2.8	4.2	4.1	5.4	5.4	20	78	76	23
C 61 3_128.1	128.1	1.0	2.5	2.5	3.9	3.8	5.1	5.1	20	78	76	23
C 61 3_140.5	140.5	1.0	2.5	2.5	3.9	3.8	5.1	5.1	20	78	76	23
C 61 3_150.0	150.0	0.70	2.2	2.2	3.6	3.5	4.8	4.8	—	—	—	23
C 61 3_164.5	164.5	0.70	2.2	2.2	3.6	3.5	4.8	4.8	—	—	—	23
C 61 3_178.6	178.6	0.60	2.1	2.1	3.5	3.4	4.7	4.7	—	—	—	22
C 61 3_195.8	195.8	0.60	2.1	2.1	3.5	3.4	4.7	4.7	—	—	—	22
C 61 4_217.4	217.4	0.67	2.2	2.2	3.6	3.5	4.8	4.8	—	—	—	11
C 61 4_238.3	238.3	0.67	2.2	2.2	3.6	3.5	4.8	4.8	—	—	—	11
C 61 4_275.3	275.3	0.81	2.3	2.3	3.7	3.6	4.9	4.9	—	—	—	11
C 61 4_301.7	301.7	0.81	2.3	2.3	3.7	3.6	4.9	4.9	—	—	—	11
C 61 4_337.7	337.7	0.56	2.1	2.1	3.5	3.4	4.7	4.7	—	—	—	11
C 61 4_370.1	370.1	0.56	2.1	2.1	3.5	3.4	4.7	4.7	—	—	—	11
C 61 4_421.5	421.5	0.53	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 61 4_462.0	462.0	0.53	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 61 4_521.1	521.1	0.51	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 61 4_571.2	571.2	0.51	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 61 4_610.1	610.1	0.49	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 61 4_668.8	668.8	0.49	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 61 4_726.3	726.3	0.48	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 61 4_796.1	796.1	0.48	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11




# C 61

	i	J (•10 <sup>-4</sup> ) [kgm <sup>2</sup> ]							
			NEMA 						
			N56C	N140TC	N180TC	N210TC	N250TC		
<b>C 61 2_2.8</b>	2.8	30	—	—	—	49	78	76	52
<b>C 61 2_3.7</b>	3.7	19	—	—	22	38	78	76	41
<b>C 61 2_4.6</b>	4.6	14	—	—	17	33	78	76	36
<b>C 61 2_6.0</b>	6.0	8.8	—	—	12	28	78	76	31
<b>C 61 2_6.7</b>	6.7	14	—	—	—	33	78	76	36
<b>C 61 2_7.5</b>	7.5	13	—	—	—	32	78	76	35
<b>C 61 2_8.8</b>	8.8	13	—	—	16	32	78	76	35
<b>C 61 2_9.8</b>	9.8	12	—	—	15	31	78	76	34
<b>C 61 2_10.9</b>	10.9	9.6	—	—	13	29	78	76	31
<b>C 61 2_12.1</b>	12.1	9.2	—	—	12	28	78	76	31
<b>C 61 2_14.3</b>	14.3	5.8	—	—	8.7	25	78	76	28
<b>C 61 2_15.9</b>	15.9	5.6	—	—	8.5	25	78	76	27
<b>C 61 2_17.7</b>	17.7	4.4	—	—	7.3	23	78	76	26
<b>C 61 2_19.6</b>	19.6	4.3	—	—	7.2	23	78	76	26
<b>C 61 2_22.4</b>	22.4	3.2	4.7	4.7	6.1	22	78	76	25
<b>C 61 2_24.8</b>	24.8	3.1	4.6	4.6	6.0	22	78	76	25
<b>C 61 2_27.4</b>	27.4	2.1	3.6	3.6	5.0	21	78	76	24
<b>C 61 2_30.4</b>	30.4	2.2	3.7	3.7	5.1	21	78	76	24
<b>C 61 2_34.2</b>	34.2	1.5	3.0	3.0	4.4	20	78	76	23
<b>C 61 2_38.0</b>	38.0	1.5	3.0	3.0	4.4	20	78	76	23
<b>C 61 3_26.8</b>	26.8	10	—	—	13	29	78	76	32
<b>C 61 3_29.4</b>	29.4	10	—	—	13	29	78	76	32
<b>C 61 3_33.0</b>	33.0	8.1	—	—	11	27	78	76	30
<b>C 61 3_36.1</b>	36.1	8.1	—	—	11	27	78	76	30
<b>C 61 3_43.4</b>	43.4	5.0	—	—	7.9	24	78	76	27
<b>C 61 3_47.6</b>	47.6	5.0	—	—	7.9	24	78	76	27
<b>C 61 3_53.5</b>	53.5	3.9	—	—	6.8	23	78	76	26
<b>C 61 3_58.6</b>	58.6	3.8	—	—	6.7	23	78	76	26
<b>C 61 3_67.7</b>	67.7	2.8	4.3	4.3	5.7	22	78	76	25
<b>C 61 3_74.2</b>	74.2	2.8	4.3	4.3	5.7	22	78	76	25
<b>C 61 3_83.0</b>	83.0	1.9	3.4	3.4	4.8	21	78	76	24
<b>C 61 3_91.0</b>	91.0	1.9	3.4	3.4	4.8	21	78	76	24
<b>C 61 3_103.6</b>	103.6	1.3	2.8	2.8	4.2	20	78	76	23
<b>C 61 3_113.6</b>	113.6	1.3	2.8	2.8	4.2	20	78	76	23
<b>C 61 3_128.1</b>	128.1	1.0	2.5	2.5	3.9	20	78	76	23
<b>C 61 3_140.5</b>	140.5	1.0	2.5	2.5	3.9	20	78	76	23
<b>C 61 3_150.0</b>	150.0	0.70	2.2	2.2	3.6	—	—	—	23
<b>C 61 3_164.5</b>	164.5	0.70	2.2	2.2	3.6	—	—	—	23
<b>C 61 3_178.6</b>	178.6	0.60	2.1	2.1	3.5	—	—	—	22
<b>C 61 3_195.8</b>	195.8	0.60	2.1	2.1	3.5	—	—	—	22
<b>C 61 4_217.4</b>	217.4	0.67	2.2	2.2	3.6	—	—	—	11
<b>C 61 4_238.3</b>	238.3	0.67	2.2	2.2	3.6	—	—	—	11
<b>C 61 4_275.3</b>	275.3	0.81	2.3	2.3	3.7	—	—	—	11
<b>C 61 4_301.7</b>	301.7	0.81	2.3	2.3	3.7	—	—	—	11
<b>C 61 4_337.7</b>	337.7	0.56	2.1	2.1	3.5	—	—	—	11
<b>C 61 4_370.1</b>	370.1	0.56	2.1	2.1	3.5	—	—	—	11
<b>C 61 4_421.5</b>	421.5	0.53	2.0	2.0	3.4	—	—	—	11
<b>C 61 4_462.0</b>	462.0	0.53	2.0	2.0	3.4	—	—	—	11
<b>C 61 4_521.1</b>	521.1	0.51	2.0	2.0	3.4	—	—	—	11
<b>C 61 4_571.2</b>	571.2	0.51	2.0	2.0	3.4	—	—	—	11
<b>C 61 4_610.1</b>	610.1	0.49	2.0	2.0	3.4	—	—	—	11
<b>C 61 4_668.8</b>	668.8	0.49	2.0	2.0	3.4	—	—	—	11
<b>C 61 4_726.3</b>	726.3	0.48	2.0	2.0	3.4	—	—	—	11
<b>C 61 4_796.1</b>	796.1	0.48	2.0	2.0	3.4	—	—	—	11






# C 61

		J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]											
		 <b>SERVO</b>											
i		80B		95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 61 2_2.8	2.8	—	—	—	—	—	—	—	—	47	49	49	54
C 61 2_3.7	3.7	—	—	—	—	22	23	22	23	36	38	38	43
C 61 2_4.6	4.6	—	—	—	—	17	18	17	18	31	33	33	38
C 61 2_6.0	6.0	—	—	—	—	12	13	12	13	26	28	28	33
C 61 2_6.7	6.7	—	—	—	—	—	—	—	—	31	33	33	38
C 61 2_7.5	7.5	—	—	—	—	—	—	—	—	30	32	32	37
C 61 2_8.8	8.8	—	—	—	—	16	17	16	17	30	32	32	37
C 61 2_9.8	9.8	—	—	—	—	15	16	15	16	23	31	31	36
C 61 2_10.9	10.9	—	—	—	—	13	14	12	13	27	29	29	34
C 61 2_12.1	12.1	—	—	—	—	12	13	12	13	26	29	28	33
C 61 2_14.3	14.3	—	—	—	—	8.7	9.2	8.6	9.6	23	25	25	30
C 61 2_15.9	15.9	—	—	—	—	8.5	9.0	8.4	9.4	23	25	25	30
C 61 2_17.7	17.7	—	—	—	—	7.3	7.8	7.2	8.2	21	24	23	28
C 61 2_19.6	19.6	—	—	—	—	7.2	7.7	7.1	8.1	21	24	23	28
C 61 2_22.4	22.4	—	—	6.0	6.5	6.1	6.6	6.0	7.0	20	23	22	27
C 61 2_24.8	24.8	—	—	5.9	6.4	6.0	6.5	5.9	6.9	20	23	22	27
C 61 2_27.4	27.4	—	—	4.9	5.4	5.0	5.5	4.9	5.9	19	22	21	26
C 61 2_30.4	30.4	—	—	5.0	5.5	5.1	5.6	5.0	6.0	19	22	21	26
C 61 2_34.2	34.2	—	—	4.3	4.8	4.4	4.9	4.3	5.3	18	21	20	25
C 61 2_38.0	38.0	—	—	4.3	4.8	4.4	4.9	4.3	5.3	18	21	20	25
C 61 3_26.8	26.8	—	—	—	—	13	14	13	14	27	29	29	34
C 61 3_29.4	29.4	—	—	—	—	13	14	13	14	27	29	29	34
C 61 3_33.0	33.0	—	—	—	—	11	12	11	12	25	28	27	32
C 61 3_36.1	36.1	—	—	—	—	11	12	11	12	25	28	27	32
C 61 3_43.4	43.4	—	—	—	—	7.9	8.4	7.8	8.8	22	24	24	29
C 61 3_47.6	47.6	—	—	—	—	7.9	8.4	7.8	8.8	22	24	24	29
C 61 3_53.5	53.5	—	—	—	—	6.8	7.3	6.7	7.7	21	23	23	28
C 61 3_58.6	58.6	—	—	—	—	6.7	7.2	6.6	7.6	21	23	23	28
C 61 3_67.7	67.7	—	—	5.6	6.1	5.7	6.2	5.6	6.6	20	22	22	27
C 61 3_74.2	74.2	—	—	5.6	6.1	5.7	6.2	5.6	6.6	20	22	22	27
C 61 3_83.0	83.0	—	—	4.7	5.2	4.8	5.3	4.7	5.7	19	21	21	26
C 61 3_91.0	91.0	—	—	4.7	5.2	4.8	5.3	4.7	5.7	19	21	21	26
C 61 3_103.6	103.6	—	—	4.1	4.6	4.2	4.7	4.1	5.1	18	21	20	25
C 61 3_113.6	113.6	—	—	4.1	4.6	4.2	4.7	4.1	5.1	18	21	20	25
C 61 3_128.1	128.1	—	—	3.8	4.3	3.9	4.4	3.8	4.8	18	20	20	25
C 61 3_140.5	140.5	—	—	3.8	4.3	3.9	4.4	3.8	4.8	18	20	20	25
C 61 3_150.0	150.0	—	—	3.5	4.0	3.6	4.1	3.5	4.5	—	—	—	—
C 61 3_164.5	164.5	—	—	3.5	4.0	3.6	4.1	3.5	4.5	—	—	—	—
C 61 3_178.6	178.6	—	—	3.4	3.9	3.5	4.0	3.4	4.4	—	—	—	—
C 61 3_195.8	195.8	—	—	3.4	3.9	3.5	4.0	3.4	4.4	—	—	—	—
C 61 4_217.4	217.4	3.5	3.9	3.5	3.9	3.6	4.1	3.5	4.5	—	—	—	—
C 61 4_238.3	238.3	3.5	3.9	3.5	3.9	3.6	4.1	3.5	4.5	—	—	—	—
C 61 4_275.3	275.3	3.6	4.1	3.6	4.1	3.7	4.2	3.6	4.6	—	—	—	—
C 61 4_301.7	301.7	3.6	4.1	3.6	4.1	3.7	4.2	3.6	4.6	—	—	—	—
C 61 4_337.7	337.7	3.4	3.8	3.4	3.8	3.5	4.0	3.4	4.4	—	—	—	—
C 61 4_370.1	370.1	3.4	3.8	3.4	3.8	3.5	4.0	3.4	4.4	—	—	—	—
C 61 4_421.5	421.5	3.4	3.8	3.4	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 61 4_462.0	462.0	3.4	3.8	3.4	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 61 4_521.1	521.1	3.3	3.8	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 61 4_571.2	571.2	3.3	3.8	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 61 4_610.1	610.1	3.3	3.7	3.3	3.7	3.4	3.9	3.3	4.3	—	—	—	—
C 61 4_668.8	668.8	3.3	3.7	3.3	3.7	3.4	3.9	3.3	4.3	—	—	—	—
C 61 4_726.3	726.3	3.3	3.7	3.3	3.7	3.4	3.9	3.3	4.3	—	—	—	—
C 61 4_796.1	796.1	3.3	3.7	3.3	3.7	3.4	3.9	3.3	4.3	—	—	—	—



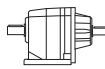


# C 70

	i	J (•10 <sup>-4</sup> ) [kgm <sup>2</sup> ]												
			63	71	80	90	100 112	132	160	180	200	225	250	280
C 70 2_4.6	4.6	—	—	—	—	—	—	136	133	143	—	—	—	99
C 70 2_5.9	5.9	—	—	—	—	—	—	119	117	126	—	—	—	32
C 70 2_6.3	6.3	—	—	—	—	—	—	129	127	136	—	—	—	93
C 70 2_7.5	7.5	26	—	—	—	—	45	105	102	112	—	—	—	68
C 70 2_8.0	8.0	—	—	—	—	—	—	115	113	122	—	—	—	78
C 70 2_9.5	9.5	19	—	—	—	—	38	97	95	—	—	—	—	60
C 70 2_10.2	10.2	24	—	—	—	—	43	102	100	109	—	—	—	65
C 70 2_11.2	11.2	15	—	—	—	—	34	94	91	—	—	—	—	56
C 70 2_13.0	13.0	17	—	—	—	—	36	95	93	—	—	—	—	58
C 70 2_14.1	14.1	9.9	—	—	12	12	14	29	88	86	—	—	—	51
C 70 2_15.3	15.3	14	—	—	—	—	33	93	90	—	—	—	—	55
C 70 2_16.7	16.7	6.9	—	—	9.5	9.4	11	26	85	83	—	—	—	48
C 70 2_19.3	19.3	9.1	—	—	12	12	13	28	87	85	—	—	—	50
C 70 2_22.9	22.9	6.4	—	—	9.0	8.9	10	25	85	83	—	—	—	48
C 70 2_27.7	27.7	5.2	—	—	8.0	7.9	9.2	24	84	81	—	—	—	46
C 70 2_34.7	34.7	3.2	—	—	6.1	6.0	7.3	22	82	79	—	—	—	44
C 70 3_41.3	41.3	4.4	—	—	7.2	7.2	8.5	23	83	80	—	—	—	46
C 70 3_44.7	44.7	4.2	—	—	7.0	7.0	8.2	23	83	80	—	—	—	45
C 70 3_52.2	52.2	3.0	—	—	5.8	5.8	7.0	22	81	79	—	—	—	44
C 70 3_56.5	56.5	2.8	—	—	5.7	5.6	6.9	22	81	79	—	—	—	44
C 70 3_65.9	65.9	2.0	—	—	4.9	4.8	6.1	21	80	78	—	—	—	43
C 70 3_71.3	71.3	2.0	—	—	4.8	4.8	6.0	21	80	78	—	—	—	43
C 70 3_81.4	81.4	1.5	—	—	4.3	4.3	5.6	20	80	78	—	—	—	43
C 70 3_88.2	88.2	1.4	—	—	4.3	4.2	5.5	20	80	76	—	—	—	43
C 70 3_103.8	103.8	1.0	—	—	3.8	3.8	5.1	20	79	77	—	—	—	42
C 70 3_112.4	112.4	0.90	—	—	3.8	3.7	5.0	20	79	77	—	—	—	42
C 70 3_126.8	126.8	0.70	—	—	3.5	3.5	4.8	20	79	77	—	—	—	42
C 70 3_137.4	137.4	0.70	—	—	3.5	3.5	4.7	20	79	77	—	—	—	42
C 70 3_150.3	150.3	0.50	—	—	3.4	3.4	9.6	—	—	—	—	—	—	42
C 70 3_162.8	162.8	0.50	—	—	3.4	3.4	4.6	—	—	—	—	—	—	42
C 70 3_179.2	179.2	0.40	—	—	3.2	3.3	4.5	—	—	—	—	—	—	42
C 70 3_194.1	194.1	0.40	—	—	3.2	3.2	4.5	—	—	—	—	—	—	42
C 70 3_220.9	220.9	0.30	—	—	3.1	3.1	4.3	—	—	—	—	—	—	41
C 70 3_239.3	239.3	0.30	—	—	3.1	3.1	4.3	—	—	—	—	—	—	41
C 70 4_251.3	251.3	0.70	2.2	2.2	3.5	3.5	4.8	20	—	—	—	—	—	11
C 70 4_272.2	272.2	0.70	2.2	2.1	3.5	3.5	4.8	20	—	—	—	—	—	11
C 70 4_317.9	317.9	0.50	2.0	2.0	3.4	3.3	4.6	19	—	—	—	—	—	11
C 70 4_344.3	344.3	0.50	2.0	2.0	3.4	3.3	4.6	19	—	—	—	—	—	11
C 70 4_409.4	409.4	0.40	1.8	1.8	3.2	3.2	4.5	19	—	—	—	—	—	7.9
C 70 4_443.5	443.5	0.40	1.8	1.8	3.2	3.2	4.5	19	—	—	—	—	—	7.9
C 70 4_512.0	512.0	0.30	1.7	1.7	3.1	3.1	4.4	19	—	—	—	—	—	7.8
C 70 4_554.7	554.7	0.30	1.7	1.7	3.1	3.1	4.4	19	—	—	—	—	—	7.8
C 70 4_606.8	606.8	0.20	1.7	1.7	3.1	3.0	4.3	—	—	—	—	—	—	7.8
C 70 4_657.3	657.3	0.20	1.7	1.7	3.1	3.0	4.3	—	—	—	—	—	—	7.7
C 70 4_736.0	736.0	0.20	1.6	1.6	3.0	2.9	4.3	—	—	—	—	—	—	7.7
C 70 4_797.3	797.3	0.20	1.6	1.6	3.0	2.9	4.3	—	—	—	—	—	—	7.7
C 70 4_922.6	922.6	0.10	1.6	1.6	3.0	2.9	4.2	—	—	—	—	—	—	7.7
C 70 4_999.5	999.5	0.10	1.6	1.6	3.0	2.9	4.2	—	—	—	—	—	—	7.6
C 70 4_1069	1069	0.80	1.6	1.5	2.9	2.9	4.2	—	—	—	—	—	—	7.6
C 70 4_1158	1158	0.80	1.6	1.5	2.9	2.9	4.2	—	—	—	—	—	—	7.6
C 70 4_1362	1362	0.60	1.5	1.5	2.9	2.9	4.1	—	—	—	—	—	—	7.6
C 70 4_1476	1476	0.60	1.5	1.5	2.9	2.9	4.1	—	—	—	—	—	—	7.6


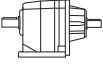


## C 70

	i	J (•10 <sup>-4</sup> ) [kgm <sup>2</sup> ]							
			NEMA 						
			N56C	N140TC	N180TC	N210TC	N250TC		N280TC
C 70 2_4.6	4.6	—	—	—	—	—	136	133	99
C 70 2_5.9	5.9	—	—	—	—	—	119	117	32
C 70 2_6.3	6.3	—	—	—	—	—	129	127	93
C 70 2_7.5	7.5	26	—	—	—	45	105	102	68
C 70 2_8.0	8.0	—	—	—	—	—	115	113	78
C 70 2_9.5	9.5	19	—	—	—	38	97	95	60
C 70 2_10.2	10.2	24	—	—	—	43	102	100	65
C 70 2_11.2	11.2	15	—	—	—	34	94	91	56
C 70 2_13.0	13.0	17	—	—	—	36	95	93	58
C 70 2_14.1	14.1	9.9	—	—	12	29	88	86	51
C 70 2_15.3	15.3	14	—	—	—	33	93	90	55
C 70 2_16.7	16.7	6.9	—	—	9.5	26	85	83	48
C 70 2_19.3	19.3	9.1	—	—	12	28	87	85	50
C 70 2_22.9	22.9	6.4	—	—	9.0	25	85	83	48
C 70 2_27.7	27.7	5.2	—	—	8.0	24	84	81	46
C 70 2_34.7	34.7	3.2	—	—	6.1	22	82	79	44
C 70 3_41.3	41.3	4.4	—	—	7.2	23	83	80	46
C 70 3_44.7	44.7	4.2	—	—	7.0	23	83	80	45
C 70 3_52.2	52.2	3.0	—	—	5.8	22	81	79	44
C 70 3_56.5	56.5	2.8	—	—	5.7	22	81	79	44
C 70 3_65.9	65.9	2.0	—	—	4.9	21	80	78	43
C 70 3_71.3	71.3	2.0	—	—	4.8	21	80	78	43
C 70 3_81.4	81.4	1.5	—	—	4.3	20	80	78	43
C 70 3_88.2	88.2	1.4	—	—	4.3	20	80	76	43
C 70 3_103.8	103.8	1.0	—	—	3.8	20	79	77	42
C 70 3_112.4	112.4	0.90	—	—	3.8	20	79	77	42
C 70 3_126.8	126.8	0.70	—	—	3.5	20	79	77	42
C 70 3_137.4	137.4	0.70	—	—	3.5	20	79	77	42
C 70 3_150.3	150.3	0.50	—	—	3.4	—	—	—	42
C 70 3_162.8	162.8	0.50	—	—	3.4	—	—	—	42
C 70 3_179.2	179.2	0.40	—	—	3.2	—	—	—	42
C 70 3_194.1	194.1	0.40	—	—	3.2	—	—	—	42
C 70 3_220.9	220.9	0.30	—	—	3.1	—	—	—	41
C 70 3_239.3	239.3	0.30	—	—	3.1	—	—	—	41
C 70 4_251.3	251.3	0.70	2.2	2.2	3.5	20	—	—	11
C 70 4_272.2	272.2	0.70	2.2	2.2	3.5	20	—	—	11
C 70 4_317.9	317.9	0.50	2.0	2.0	3.4	19	—	—	11
C 70 4_344.3	344.3	0.50	2.0	2.0	3.4	19	—	—	11
C 70 4_409.4	409.4	0.40	1.8	1.8	3.2	19	—	—	7.9
C 70 4_443.5	443.5	0.40	1.8	1.8	3.2	19	—	—	7.9
C 70 4_512.0	512.0	0.30	1.7	1.7	3.1	19	—	—	7.8
C 70 4_554.7	554.7	0.30	1.7	1.7	3.1	19	—	—	7.8
C 70 4_606.8	606.8	0.20	1.7	1.7	3.1	—	—	—	7.8
C 70 4_657.3	657.3	0.20	1.7	1.7	3.1	—	—	—	7.7
C 70 4_736.0	736.0	0.20	1.6	1.6	3.0	—	—	—	7.7
C 70 4_797.3	797.3	0.20	1.6	1.6	3.0	—	—	—	7.7
C 70 4_922.6	922.6	0.10	1.6	1.6	3.0	—	—	—	7.7
C 70 4_999.5	999.5	0.10	1.6	1.6	3.0	—	—	—	7.6
C 70 4_1069	1069	0.80	1.6	1.6	2.9	—	—	—	7.6
C 70 4_1158	1158	0.80	1.6	1.6	2.9	—	—	—	7.6
C 70 4_1362	1362	0.60	1.5	1.5	2.9	—	—	—	7.6
C 70 4_1476	1476	0.60	1.5	1.5	2.9	—	—	—	7.6



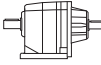


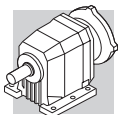
# C 80

	i	J (•10 <sup>-4</sup> ) [kgm <sup>2</sup> ]													
			63	71	80	90	100 112	132	160	180	200	225	250	280	
C 80 2_5.6	5.6	—	—	—	—	—	—	—	—	197	211	489	—	—	164
C 80 2_6.1	6.1	—	—	—	—	—	—	—	—	193	210	485	—	—	159
C 80 2_7.0	7.0	—	—	—	—	—	—	—	160	161	174	452	—	—	127
C 80 2_7.6	7.6	—	—	—	—	—	—	—	158	158	172	449	—	—	124
C 80 2_8.9	8.9	—	—	—	—	—	—	—	137	135	146	429	—	—	101
C 80 2_9.6	9.6	—	—	—	—	—	—	—	136	133	144	427	—	—	99
C 80 2_11.1	11.1	38	—	—	—	—	—	56	116	113	124	408	—	—	79
C 80 2_12.0	12.0	36	—	—	—	—	—	55	115	112	123	407	—	—	78
C 80 2_13.8	13.8	28	—	—	—	—	—	47	106	104	135	398	—	—	69
C 80 2_14.9	14.9	27	—	—	—	—	—	46	106	103	134	397	—	—	69
C 80 2_16.7	16.7	21	—	—	—	—	—	40	100	97	127	391	—	—	63
C 80 2_18.1	18.1	21	—	—	—	—	—	40	99	97	127	390	—	—	62
C 80 2_20.5	20.5	14	—	—	17	17	18	33	93	90	120	383	—	—	55
C 80 2_22.2	22.2	14	—	—	16	16	18	33	92	90	120	383	—	—	55
C 80 2_24.0	24.0	13	—	—	16	16	17	32	91	89	119	382	—	—	54
C 80 2_25.9	25.9	13	—	—	16	15	17	32	91	89	118	382	—	—	54
C 80 2_31.3	31.3	8.7	—	—	12	11	13	28	87	85	—	—	—	—	50
C 80 2_39.1	39.1	5.2	—	—	8.0	8.0	9.2	24	84	81	—	—	—	—	46
C 80 3_43.5	43.5	9.6	—	—	12	12	14	29	88	86	—	—	—	—	51
C 80 3_47.4	47.4	9.1	—	—	12	12	13	28	87	85	—	—	—	—	50
C 80 3_57.3	57.3	5.7	—	—	8.5	8.5	9.7	25	84	82	—	—	—	—	47
C 80 3_62.5	62.5	5.4	—	—	8.2	8.2	9.5	24	84	82	—	—	—	—	47
C 80 3_70.5	70.5	4.3	—	—	7.1	7.0	8.3	23	83	80	—	—	—	—	45
C 80 3_76.9	76.9	4.1	—	—	7.0	6.9	8.2	23	82	80	—	—	—	—	45
C 80 3_89.3	89.3	3.0	—	—	5.9	5.8	7.1	22	81	79	—	—	—	—	44
C 80 3_97.4	97.4	2.9	—	—	5.8	5.7	7.0	22	81	79	—	—	—	—	44
C 80 3_109.5	109.5	2.0	—	—	4.8	4.8	6.1	21	80	78	—	—	—	—	43
C 80 3_119.5	119.5	1.9	—	—	4.8	4.7	6.0	21	80	79	—	—	—	—	43
C 80 3_136.7	136.7	1.4	—	—	4.3	4.2	5.5	20	80	78	—	—	—	—	43
C 80 3_149.1	149.1	1.4	—	—	4.2	4.2	5.5	20	80	77	—	—	—	—	43
C 80 3_169.0	169.0	1.0	—	—	3.9	3.8	5.1	20	80	77	—	—	—	—	42
C 80 3_184.4	184.4	1.0	—	—	3.9	3.8	5.1	20	80	77	—	—	—	—	42
C 80 3_197.9	197.9	0.80	—	—	3.7	3.6	4.9	—	—	—	—	—	—	—	42
C 80 3_215.8	215.8	0.80	—	—	3.6	3.6	4.9	—	—	—	—	—	—	—	42
C 80 4_261.9	261.9	1.7	—	—	4.6	4.5	5.8	21	—	—	—	—	—	—	12
C 80 4_285.7	285.7	1.7	—	—	4.6	4.5	5.8	21	—	—	—	—	—	—	12
C 80 4_334.3	334.3	1.2	2.7	2.7	4.0	4.0	5.3	20	—	—	—	—	—	—	11
C 80 4_364.7	364.7	1.2	2.7	2.6	4.0	4.0	5.3	20	—	—	—	—	—	—	11
C 80 4_417.5	417.5	0.90	2.4	2.3	3.7	3.7	5.0	20	—	—	—	—	—	—	11
C 80 4_455.4	455.4	0.90	2.3	2.3	3.7	3.7	5.5	20	—	—	—	—	—	—	11
C 80 4_529.3	529.3	0.50	2.0	2.0	3.4	3.3	4.6	19	—	—	—	—	—	—	11
C 80 4_577.4	577.4	0.50	2.0	2.0	3.4	3.3	4.6	19	—	—	—	—	—	—	11
C 80 4_664.3	664.3	0.40	2.0	1.9	3.3	3.2	4.5	19	—	—	—	—	—	—	11
C 80 4_724.7	724.7	0.40	2.0	1.9	3.3	3.2	4.5	19	—	—	—	—	—	—	11
C 80 4_783.4	783.4	0.30	2.0	1.8	3.2	3.1	4.4	—	—	—	—	—	—	—	9.4
C 80 4_854.6	854.6	0.30	2.0	1.8	3.2	3.1	4.4	—	—	—	—	—	—	—	9.4
C 80 4_945.7	945.7	0.20	1.7	1.7	3.1	3.0	4.3	—	—	—	—	—	—	—	9.3
C 80 4_1032	1032	0.20	1.7	1.7	3.1	3.0	4.3	—	—	—	—	—	—	—	9.3
C 80 4_1168	1168	0.20	1.6	1.6	3.0	3.0	4.2	—	—	—	—	—	—	—	9.2
C 80 4_1274	1274	0.20	1.6	1.6	3.0	3.0	4.2	—	—	—	—	—	—	—	9.2
C 80 4_1358	1358	0.10	1.6	1.6	3.0	2.9	4.2	—	—	—	—	—	—	—	9.2
C 80 4_1481	1481	0.10	1.6	1.6	3.0	2.9	4.2	—	—	—	—	—	—	—	9.2




## C 80

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]								
			NEMA 							
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC	
<b>C 80 2_5.6</b>	5.6	—	—	—	—	—	—	197	489	164
<b>C 80 2_6.1</b>	6.1	—	—	—	—	—	—	193	485	159
<b>C 80 2_7.0</b>	7.0	—	—	—	—	—	160	161	452	127
<b>C 80 2_7.6</b>	7.6	—	—	—	—	—	158	158	449	124
<b>C 80 2_8.9</b>	8.9	—	—	—	—	—	137	135	429	101
<b>C 80 2_9.6</b>	9.6	—	—	—	—	—	136	133	427	99
<b>C 80 2_11.1</b>	11.1	38	—	—	—	56	116	113	408	79
<b>C 80 2_12.0</b>	12.0	36	—	—	—	55	115	112	407	78
<b>C 80 2_13.8</b>	13.8	28	—	—	—	47	106	104	398	69
<b>C 80 2_14.9</b>	14.9	27	—	—	—	46	106	103	397	69
<b>C 80 2_16.7</b>	16.7	21	—	—	—	40	100	97	391	63
<b>C 80 2_18.1</b>	18.1	21	—	—	—	40	99	97	390	62
<b>C 80 2_20.5</b>	20.5	14	—	—	17	33	93	90	383	55
<b>C 80 2_22.2</b>	22.2	14	—	—	16	33	92	90	383	55
<b>C 80 2_24.0</b>	24.0	13	—	—	16	32	91	89	382	54
<b>C 80 2_25.9</b>	25.9	13	—	—	16	32	91	89	382	54
<b>C 80 2_31.3</b>	31.3	8.7	—	—	12	28	87	85	—	50
<b>C 80 2_39.1</b>	39.1	5.2	—	—	8.0	24	84	81	—	46
<b>C 80 3_43.5</b>	43.5	9.6	—	—	12	29	88	86	—	51
<b>C 80 3_47.4</b>	47.4	9.1	—	—	12	28	87	85	—	50
<b>C 80 3_57.3</b>	57.3	5.7	—	—	8.5	25	84	82	—	47
<b>C 80 3_62.5</b>	62.5	5.4	—	—	8.2	24	84	82	—	47
<b>C 80 3_70.5</b>	70.5	4.3	—	—	7.1	23	83	80	—	45
<b>C 80 3_76.9</b>	76.9	4.1	—	—	7.0	23	82	80	—	45
<b>C 80 3_89.3</b>	89.3	3.0	—	—	5.9	22	81	79	—	44
<b>C 80 3_97.4</b>	97.4	2.9	—	—	5.8	22	81	79	—	44
<b>C 80 3_109.5</b>	109.5	2.0	—	—	4.8	21	80	78	—	43
<b>C 80 3_119.5</b>	119.5	1.9	—	—	4.8	21	80	79	—	43
<b>C 80 3_136.7</b>	136.7	1.4	—	—	4.3	20	80	78	—	43
<b>C 80 3_149.1</b>	149.1	1.4	—	—	4.2	20	80	77	—	43
<b>C 80 3_169.0</b>	169.0	1.0	—	—	3.9	20	80	77	—	42
<b>C 80 3_184.4</b>	184.4	1.0	—	—	3.9	20	80	77	—	42
<b>C 80 3_197.9</b>	197.9	0.80	—	—	3.7	—	—	—	—	42
<b>C 80 3_215.8</b>	215.8	0.80	—	—	3.6	—	—	—	—	42
<b>C 80 4_261.9</b>	261.9	1.7	—	—	4.6	21	—	—	—	12
<b>C 80 4_285.7</b>	285.7	1.7	—	—	4.6	21	—	—	—	12
<b>C 80 4_334.3</b>	334.3	1.2	2.7	2.7	4.0	20	—	—	—	11
<b>C 80 4_364.7</b>	364.7	1.2	2.7	2.7	4.0	20	—	—	—	11
<b>C 80 4_417.5</b>	417.5	0.90	2.4	2.4	3.7	20	—	—	—	11
<b>C 80 4_455.4</b>	455.4	0.90	2.3	2.3	3.7	20	—	—	—	11
<b>C 80 4_529.3</b>	529.3	0.50	2.0	2.0	3.4	19	—	—	—	11
<b>C 80 4_577.4</b>	577.4	0.50	2.0	2.0	3.4	19	—	—	—	11
<b>C 80 4_664.3</b>	664.3	0.40	2.0	2.0	3.3	19	—	—	—	11
<b>C 80 4_724.7</b>	724.7	0.40	2.0	2.0	3.3	19	—	—	—	11
<b>C 80 4_783.4</b>	783.4	0.30	2.0	2.0	3.2	—	—	—	—	9.4
<b>C 80 4_854.6</b>	854.6	0.30	2.0	2.0	3.2	—	—	—	—	9.4
<b>C 80 4_945.7</b>	945.7	0.20	1.7	1.7	3.1	—	—	—	—	9.3
<b>C 80 4_1032</b>	1032	0.20	1.7	1.7	3.1	—	—	—	—	9.3
<b>C 80 4_1168</b>	1168	0.20	1.6	1.6	3.0	—	—	—	—	9.2
<b>C 80 4_1274</b>	1274	0.20	1.6	1.6	3.0	—	—	—	—	9.2
<b>C 80 4_1358</b>	1358	0.10	1.6	1.6	3.0	—	—	—	—	9.2
<b>C 80 4_1481</b>	1481	0.10	1.6	1.6	3.0	—	—	—	—	9.2






# C 90

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]													
			63	71	80	90	100 112	132	160	180	200	225	250		280
C 90 2_5.2	5.2	—	—	—	—	—	—	—	—	—	332	610	637	—	619
C 90 2_5.6	5.6	—	—	—	—	—	—	—	—	—	321	599	626	—	609
C 90 2_6.8	6.8	—	—	—	—	—	—	—	—	—	252	530	557	—	540
C 90 2_7.3	7.3	—	—	—	—	—	—	—	—	—	246	524	551	—	533
C 90 2_8.3	8.3	—	—	—	—	—	—	—	—	—	212	490	517	—	499
C 90 2_9.0	9.0	—	—	—	—	—	—	—	—	—	208	485	513	—	495
C 90 2_10.4	10.4	—	—	—	—	—	—	167	164	175	458	484	—	461	
C 90 2_11.2	11.2	—	—	—	—	—	—	164	162	173	455	482	—	458	
C 90 2_12.8	12.8	65	—	—	—	—	84	143	141	152	436	462	—	439	
C 90 2_13.9	13.9	63	—	—	—	—	82	141	139	200	434	460	—	437	
C 90 2_16.0	16.0	47	—	—	—	—	66	125	123	154	417	443	—	420	
C 90 2_17.3	17.3	46	—	—	—	—	65	124	122	153	416	442	—	419	
C 90 2_18.7	18.7	42	—	—	—	—	61	121	119	148	412	433	—	415	
C 90 2_20.2	20.2	41	—	—	—	—	61	199	118	147	411	438	—	414	
C 90 2_22.9	22.9	28	—	—	30	30	31	47	106	104	133	397	423	—	400
C 90 2_24.8	24.8	27	—	—	29	29	31	46	105	103	133	396	422	—	399
C 90 2_27.2	27.2	22	—	—	25	25	26	41	101	99	128	391	418	—	394
C 90 2_29.4	29.4	22	—	—	25	24	26	41	100	98	127	391	417	—	394
C 90 2_35.1	35.1	14	—	—	17	17	18	33	93	90	—	—	—	—	386
C 90 3_39.4	39.4	27	—	—	—	—	—	46	105	103	112	398	424	—	412
C 90 3_43.0	43.0	26	—	—	—	—	—	45	104	102	111	396	422	—	410
C 90 3_50.3	50.3	19	—	—	—	—	—	38	98	95	126	389	415	—	403
C 90 3_54.9	54.9	19	—	—	—	—	—	37	97	95	125	389	415	—	401
C 90 3_59.2	59.2	16	—	—	—	—	—	35	94	92	122	385	411	—	398
C 90 3_64.6	64.6	15	—	—	—	—	—	34	94	91	121	384	410	—	398
C 90 3_74.4	74.4	10	—	—	13	13	14	29	88	86	116	379	405	—	393
C 90 3_81.2	81.2	9.8	—	—	12	12	13	29	88	86	115	379	405	—	392
C 90 3_88.2	88.2	7.1	—	—	9.7	9.6	11	26	85	83	113	376	402	—	389
C 90 3_96.2	96.2	6.9	—	—	9.4	9.4	11	26	85	83	112	376	402	—	389
C 90 3_107.0	107.0	5.7	—	—	8.4	8.4	9.6	25	84	82	—	—	—	—	388
C 90 3_116.7	116.7	5.5	—	—	8.3	8.2	9.5	24	84	82	—	—	—	—	388
C 90 3_134.1	134.1	3.5	—	—	6.4	6.3	7.6	22	82	80	—	—	—	—	386
C 90 3_146.3	146.3	3.4	—	—	6.3	6.2	7.5	22	82	80	—	—	—	—	386
C 90 3_157.8	157.8	2.5	—	—	5.4	5.3	6.6	21	81	79	—	—	—	—	385
C 90 3_172.1	172.1	2.4	—	—	5.3	5.2	6.5	21	81	79	—	—	—	—	385
C 90 4_212.4	212.4	4.2	—	—	7.0	7.0	8.3	23	83	80	—	—	—	—	14
C 90 4_231.7	231.7	4.1	—	—	7.0	6.9	8.2	23	82	80	—	—	—	—	14
C 90 4_268.5	268.5	2.8	—	—	5.7	5.6	6.9	22	81	79	—	—	—	—	13
C 90 4_292.9	292.9	2.8	—	—	5.7	2.6	6.9	22	81	79	—	—	—	—	13
C 90 4_339.0	339.0	2.0	3.4	3.4	4.8	4.8	6.0	21	80	78	—	—	—	—	12
C 90 4_369.8	369.8	2.0	3.4	3.4	4.8	4.8	6.0	21	80	78	—	—	—	—	12
C 90 4_419.0	419.0	1.4	2.9	2.9	4.3	4.2	5.5	20	80	78	—	—	—	—	12
C 90 4_457.1	457.1	1.4	2.9	2.9	4.3	4.2	5.5	20	80	78	—	—	—	—	12
C 90 4_534.2	534.2	0.90	2.4	2.4	3.8	3.7	5.0	20	79	77	—	—	—	—	11
C 90 4_582.8	582.8	0.90	2.4	2.4	3.8	3.7	5.0	20	79	77	—	—	—	—	11
C 90 4_652.8	652.8	0.70	2.1	2.1	3.5	3.5	4.7	20	79	77	—	—	—	—	11
C 90 4_712.2	712.2	0.70	2.1	2.1	3.5	3.5	4.7	20	79	77	—	—	—	—	11
C 90 4_773.6	773.6	0.50	2.0	2.0	3.4	3.3	4.6	—	—	—	—	—	—	—	9.7
C 90 4_844.0	844.0	0.50	2.0	2.0	3.4	3.3	4.6	—	—	—	—	—	—	—	9.6
C 90 4_922.3	922.3	0.40	1.8	1.8	3.2	3.2	4.5	—	—	—	—	—	—	—	9.5
C 90 4_1006	1006	0.40	1.8	1.8	3.2	3.2	4.5	—	—	—	—	—	—	—	9.4
C 90 4_1137	1137	0.30	1.7	1.7	3.1	3.0	4.3	—	—	—	—	—	—	—	9.3
C 90 4_1240	1240	0.30	1.7	1.7	3.1	3.0	4.3	—	—	—	—	—	—	—	9.3




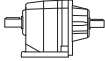


# C 90

	i	J (•10 <sup>-4</sup> ) [kgm <sup>2</sup> ]								
			NEMA 							
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC		N320TC
C 90 2_5.2	5.2	—	—	—	—	—	—	—	610	619
C 90 2_5.6	5.6	—	—	—	—	—	—	—	599	609
C 90 2_6.8	6.8	—	—	—	—	—	—	—	530	540
C 90 2_7.3	7.3	—	—	—	—	—	—	—	524	533
C 90 2_8.3	8.3	—	—	—	—	—	—	—	490	499
C 90 2_9.0	9.0	—	—	—	—	—	—	—	485	495
C 90 2_10.4	10.4	—	—	—	—	167	164	164	458	461
C 90 2_11.2	11.2	—	—	—	—	164	162	162	455	458
C 90 2_12.8	12.8	65	—	—	—	84	143	141	436	439
C 90 2_13.9	13.9	63	—	—	—	82	141	139	434	437
C 90 2_16.0	16.0	47	—	—	—	66	125	123	417	420
C 90 2_17.3	17.3	46	—	—	—	65	124	122	416	419
C 90 2_18.7	18.7	42	—	—	—	61	121	119	412	415
C 90 2_20.2	20.2	41	—	—	—	61	199	118	411	414
C 90 2_22.9	22.9	28	—	—	30	47	106	104	397	400
C 90 2_24.8	24.8	27	—	—	29	46	105	103	396	399
C 90 2_27.2	27.2	22	—	—	25	41	101	99	391	394
C 90 2_29.4	29.4	22	—	—	25	41	100	98	391	394
C 90 2_35.1	35.1	14	—	—	17	33	93	90	—	386
C 90 3_39.4	39.4	27	—	—	—	46	105	103	398	412
C 90 3_43.0	43.0	26	—	—	—	45	104	102	396	410
C 90 3_50.3	50.3	19	—	—	—	38	98	95	389	403
C 90 3_54.9	54.9	19	—	—	—	37	97	95	389	401
C 90 3_59.2	59.2	16	—	—	—	35	94	92	385	398
C 90 3_64.6	64.6	15	—	—	—	34	94	91	384	398
C 90 3_74.4	74.4	10	—	—	13	29	88	86	379	393
C 90 3_81.2	81.2	9.8	—	—	12	29	88	86	379	392
C 90 3_88.2	88.2	7.1	—	—	9.7	26	85	83	376	389
C 90 3_96.2	96.2	6.9	—	—	9.4	26	85	83	376	389
C 90 3_107.0	107.0	5.7	—	—	8.4	25	84	82	—	388
C 90 3_116.7	116.7	5.5	—	—	8.3	24	84	82	—	388
C 90 3_134.1	134.1	3.5	—	—	6.4	22	82	80	—	386
C 90 3_146.3	146.3	3.4	—	—	6.3	22	82	80	—	386
C 90 3_157.8	157.8	2.5	—	—	5.4	21	81	79	—	385
C 90 3_172.1	172.1	2.4	—	—	5.3	21	81	79	—	385
C 90 4_212.4	212.4	4.2	—	—	7.0	23	83	80	—	14
C 90 4_231.7	231.7	4.1	—	—	7.0	23	82	80	—	14
C 90 4_268.5	268.5	2.8	—	—	5.7	22	81	79	—	13
C 90 4_292.9	292.9	2.8	—	—	5.7	22	81	79	—	13
C 90 4_339.0	339.0	2.0	3.4	3.4	4.8	21	80	78	—	12
C 90 4_369.8	369.8	2.0	3.4	3.4	4.8	21	80	78	—	12
C 90 4_419.0	419.0	1.4	2.9	2.9	4.3	20	80	78	—	12
C 90 4_457.1	457.1	1.4	2.9	2.9	4.3	20	80	78	—	12
C 90 4_534.2	534.2	0.90	2.4	2.4	3.8	20	79	77	—	11
C 90 4_582.8	582.8	0.90	2.4	2.4	3.8	20	79	77	—	11
C 90 4_652.8	652.8	0.70	2.1	2.1	3.5	20	79	77	—	11
C 90 4_712.2	712.2	0.70	2.1	2.1	3.5	20	79	77	—	11
C 90 4_773.6	773.6	0.50	2.0	2.0	3.4	—	—	—	—	9.7
C 90 4_844.0	844.0	0.50	2.0	2.0	3.4	—	—	—	—	9.6
C 90 4_922.3	922.3	0.40	1.8	1.8	3.2	—	—	—	—	9.5
C 90 4_1006	1006	0.40	1.8	1.8	3.2	—	—	—	—	9.4
C 90 4_1137	1137	0.30	1.7	1.7	3.1	—	—	—	—	9.3
C 90 4_1240	1240	0.30	1.7	1.7	3.1	—	—	—	—	9.3



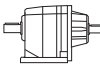


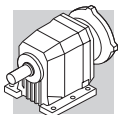
# C 100

	i	J (•10 <sup>-4</sup> ) [kgm <sup>2</sup> ]													
			63	71	80	90	100 112	132	160	180	200	225	250	280	
C 100 2_4.9	4.9	—	—	—	—	—	—	—	—	—	674	960	987	970	972
C 100 2_5.3	5.3	—	—	—	—	—	—	—	—	—	647	933	960	943	944
C 100 2_6.5	6.5	—	—	—	—	—	—	—	—	—	481	767	794	777	778
C 100 2_7.1	7.1	—	—	—	—	—	—	—	—	—	465	751	778	761	763
C 100 2_8.4	8.4	—	—	—	—	—	—	—	—	—	365	651	678	660	662
C 100 2_9.0	9.0	—	—	—	—	—	—	—	—	—	355	641	668	651	653
C 100 2_10.1	10.1	—	—	—	—	—	—	—	—	—	291	577	604	587	589
C 100 2_10.9	10.9	—	—	—	—	—	—	—	—	—	285	570	597	580	582
C 100 2_12.5	12.5	—	—	—	—	—	—	—	224	222	233	521	550	539	529
C 100 2_13.5	13.5	—	—	—	—	—	—	—	220	218	228	517	545	532	524
C 100 2_15.2	15.2	122	—	—	—	—	—	82	141	200	199	472	499	528	514
C 100 2_16.5	16.5	119	—	—	—	—	—	138	197	195	206	496	525	511	504
C 100 2_18.7	18.7	97	—	—	—	—	—	116	175	173	203	474	501	488	480
C 100 2_20.2	20.2	95	—	—	—	—	—	114	173	171	201	471	499	486	478
C 100 2_22.2	22.2	73	—	—	—	—	—	92	102	150	179	448	477	463	456
C 100 2_24.1	24.1	72	—	—	—	—	—	91	150	148	178	447	476	462	455
C 100 2_29.6	29.6	50	—	—	—	—	54	69	129	127	156	425	454	440	433
C 100 3_34.3	34.3	—	—	—	—	—	—	—	148	146	155	439	465	471	461
C 100 3_36.9	36.9	—	—	—	—	—	—	—	145	143	152	436	462	468	458
C 100 3_42.9	42.9	44	—	—	—	—	—	63	123	120	130	415	441	451	437
C 100 3_46.2	46.2	43	—	—	—	—	—	61	121	118	128	413	439	452	435
C 100 3_53.3	53.3	33	—	—	—	—	—	51	111	109	139	403	429	432	424
C 100 3_57.4	57.4	31	—	—	—	—	—	50	110	107	138	401	427	431	423
C 1003_64.5	64.5	24	—	—	—	—	—	43	103	101	130	394	420	422	415
C 100 3_69.4	69.4	24	—	—	—	—	—	43	102	100	129	393	419	421	414
C 100 3_79.4	79.4	16	—	—	—	—	20	35	95	92	122	385	411	413	407
C 100 3_85.6	85.6	16	—	—	—	—	19	35	94	92	121	385	411	413	406
C 100 3_92.7	92.7	15	—	—	—	—	18	34	93	91	120	384	410	412	405
C 100 3_99.8	99.8	14	—	—	—	—	18	33	93	90	119	383	409	411	404
C 100 3_111.9	111.9	9.9	—	—	—	—	14	29	88	86	—	—	—	—	392
C 100 3_120.5	120.5	9.6	—	—	—	—	14	29	88	86	—	—	—	—	392
C 100 3_139.7	139.7	6.0	—	—	—	—	10	25	84	82	—	—	—	—	388
C 100 3_150.4	150.4	5.8	—	—	—	—	9.8	25	84	82	—	—	—	—	388
C 100 4_162.1	162.1	13	—	—	16	16	17	32	100	89	—	—	—	—	23
C 100 4_185.4	185.4	9.6	—	—	13	12	14	29	88	86	—	—	—	—	20
C 100 4_199.6	199.6	8.5	—	—	12	12	14	28	88	86	—	—	—	—	20
C 100 4_244.2	244.2	5.7	—	—	8.5	8.5	9.8	25	84	82	—	—	—	—	16
C 100 4_263.0	263.0	5.6	—	—	8.5	8.4	9.7	25	84	82	—	—	—	—	16
C 100 4_300.5	300.5	4.2	—	—	7.1	7.1	8.4	23	83	80	—	—	—	—	15
C 100 4_323.6	323.6	4.2	—	—	7.1	7.0	8.3	23	83	80	—	—	—	—	14
C 100 4_380.5	380.5	3.1	4.5	4.5	5.9	5.5	7.1	22	81	79	—	—	—	—	13
C 100 4_409.8	409.8	3.0	4.5	4.5	5.9	5.5	7.1	22	81	79	—	—	—	—	13
C 100 4_466.7	466.7	2.0	3.5	3.5	4.9	4.8	6.1	20	80	78	—	—	—	—	12
C 100 4_502.6	502.6	2.0	3.5	3.4	4.8	4.8	6.1	20	80	78	—	—	—	—	12
C 100 4_582.6	582.6	1.4	2.9	2.9	4.3	4.2	5.5	20	80	77	—	—	—	—	12
C 100 4_627.4	627.4	1.4	2.9	2.9	4.3	4.2	5.5	20	80	77	—	—	—	—	12
C 100 4_720.3	720.3	1.0	2.5	2.5	3.9	3.4	5.1	20	79	77	—	—	—	—	11
C 100 4_775.7	775.7	1.0	2.5	2.5	3.9	3.4	5.1	20	79	77	—	—	—	—	11
C 100 4_843.3	843.3	0.80	2.3	2.3	3.7	3.6	4.9	—	—	—	—	—	—	—	9.9
C 100 4_908.2	908.2	0.80	2.3	2.3	3.7	3.6	4.9	—	—	—	—	—	—	—	9.9
C 100 4_1004	1004	0.60	2.1	2.0	3.4	3.4	4.7	—	—	—	—	—	—	—	9.7
C 100 4_1081	1081	0.60	2.1	2.0	3.4	3.4	4.7	—	—	—	—	—	—	—	9.7



# C 100

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]								
			NEMA 							
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC		N320TC
C 100 2_4.9	4.9	—	—	—	—	—	—	—	960	972
C 100 2_5.3	5.3	—	—	—	—	—	—	—	933	944
C 100 2_6.5	6.5	—	—	—	—	—	—	—	767	778
C 100 2_7.1	7.1	—	—	—	—	—	—	—	751	763
C 100 2_8.4	8.4	—	—	—	—	—	—	—	651	662
C 100 2_9.0	9.0	—	—	—	—	—	—	—	641	653
C 100 2_10.1	10.1	—	—	—	—	—	—	—	577	589
C 100 2_10.9	10.9	—	—	—	—	—	—	—	570	582
C 100 2_12.5	12.5	—	—	—	—	—	224	222	521	529
C 100 2_13.5	13.5	—	—	—	—	—	220	218	517	524
C 100 2_15.2	15.2	122	—	—	—	82	141	200	472	514
C 100 2_16.5	16.5	119	—	—	—	138	197	195	496	504
C 100 2_18.7	18.7	97	—	—	—	116	175	173	474	480
C 100 2_20.2	20.2	95	—	—	—	114	173	171	471	478
C 100 2_22.2	22.2	73	—	—	—	92	102	150	448	456
C 100 2_24.1	24.1	72	—	—	—	91	150	148	447	455
C 100 2_29.6	29.6	50	—	—	—	69	129	127	425	433
C 100 3_34.3	34.3	—	—	—	—	—	148	146	439	461
C 100 3_36.9	36.9	—	—	—	—	—	145	143	436	458
C 100 3_42.9	42.9	44	—	—	—	63	123	120	415	437
C 100 3_46.2	46.2	43	—	—	—	61	121	118	413	435
C 100 3_53.3	53.3	33	—	—	—	51	111	109	403	424
C 100 3_57.4	57.4	31	—	—	—	50	110	107	401	423
C 100 3_64.5	64.5	24	—	—	—	43	103	101	394	415
C 100 3_69.4	69.4	24	—	—	—	43	102	100	393	414
C 100 3_79.4	79.4	16	—	—	—	35	95	92	385	407
C 100 3_85.6	85.6	16	—	—	—	35	94	92	385	406
C 100 3_92.7	92.7	15	—	—	—	34	93	91	384	405
C 100 3_99.8	99.8	14	—	—	—	33	93	90	383	404
C 100 3_111.9	111.9	9.9	—	—	—	29	88	86	—	392
C 100 3_120.5	120.5	9.6	—	—	—	29	88	86	—	392
C 100 3_139.7	139.7	6.0	—	—	—	25	84	82	—	388
C 100 3_150.4	150.4	5.8	—	—	—	25	84	82	—	388
C 100 4_162.1	162.1	13	—	—	16	32	100	89	—	23
C 100 4_185.4	185.4	9.6	—	—	13	29	88	86	—	20
C 100 4_199.6	199.6	8.5	—	—	12	28	88	86	—	20
C 100 4_244.2	244.2	5.7	—	—	8.5	25	84	82	—	16
C 100 4_263.0	263.0	5.6	—	—	8.5	25	84	82	—	16
C 100 4_300.5	300.5	4.2	—	—	7.1	23	83	80	—	15
C 100 4_323.6	323.6	4.2	—	—	7.1	23	83	80	—	14
C 100 4_380.5	380.5	3.1	4.5	4.5	5.9	22	81	79	—	13
C 100 4_409.8	409.8	3.0	4.5	4.5	5.9	22	81	79	—	13
C 100 4_466.7	466.7	2.0	3.5	3.5	4.9	20	80	78	—	12
C 100 4_502.6	502.6	2.0	3.5	3.5	4.8	20	80	78	—	12
C 100 4_582.6	582.6	1.4	2.9	2.9	4.3	20	80	77	—	12
C 100 4_627.4	627.4	1.4	2.9	2.9	4.3	20	80	77	—	12
C 100 4_720.3	720.3	1.0	2.5	2.5	3.9	20	79	77	—	11
C 100 4_775.7	775.7	1.0	2.5	2.5	3.9	20	79	77	—	11
C 100 4_843.3	843.3	0.80	2.3	2.3	3.7	—	—	—	—	9.9
C 100 4_908.2	908.2	0.80	2.3	2.3	3.7	—	—	—	—	9.9
C 100 4_1004	1004	0.60	2.1	2.1	3.4	—	—	—	—	9.7
C 100 4_1081	1081	0.60	2.1	2.1	3.4	—	—	—	—	9.7



## 29 RELAÇÕES EXATAS

$i_N$	C12	C22	C32	C36	C41	C51	C61	C70	C80	C90	C100
2.5						2.62895					
2.8	2.76731	2.72212	2.87879	2.68687	2.65909		2.82011				
3.2	3.20743	3.32609		3.18182		3.30758					
3.5	3.65132	3.70709	3.40909	3.48617	3.61111		3.69925				
4.0			3.73518	4.20000							
4.5	4.31203	4.25831	4.50000	4.62201	4.66304	4.45370	4.55556	4.57143			
5.0	4.86842	4.76902	4.95215	5.27807						5.17231	4.92308
5.6	5.59868	5.59006	5.65508	5.84659	5.95263	5.63043		5.85034	5.64103	5.60333	5.33333
6.3	6.23158	6.08696	6.26420		6.36364		6.00176 6.74074	6.25455	6.11111	6.75824	6.52308
7.1		7.08300	7.16498	6.78114	7.06612	6.98684	7.48485	7.46032	7.04000	7.32143	7.06667
8.0	7.62201		8.48485	8.03030		7.75120		8.00433	7.62667	8.32615	8.35165
9.0	8.83422	8.65455	9.29644	8.79842	8.64198	8.79040	8.84211	9.52381	8.86447	9.02000	9.04762
10.0	10.05682	9.64593		10.60000	9.59596	9.75207	9.81818	10.20707	9.60317	10.36264	10.09231
11.2		11.08021	11.20000	11.66507	11.15942	11.83642	10.88889	11.20879	11.09402	11.22619	10.93333
12.5	11.87662	12.40909	12.32536	13.32086	12.39130	13.13131	12.09091	13.03030	12.01852	12.79060	12.45421
14.0	13.40909	14.54545	14.07487	14.75568	14.24561	14.96377	14.34568	14.09524	13.76410 14.91111	13.85648	13.49206
16.0	15.42045	15.83838	15.59091		15.81818	16.60079	15.92929	15.33566 16.70330	16.66272	15.97949	15.21368 16.48148
18.0	17.16364 18.38961	18.13636	18.18182	17.20779	17.79167	18.89035	17.65217		18.05128	17.31111 18.68047	18.66667
20.0	20.62937	20.02424	20.08081	19.00505	19.75568	20.95694 21.81606	19.60079	19.28485	20.53333	20.23718	20.22222
22.4	23.24242	21.45455	22.90909	22.13187	22.55556	23.35417 23.89242	22.35088	22.85315	22.24444	22.91795	22.24852
25.0	25.35537	24.27972	25.11515	26.20879	25.04545	25.90909	24.81818 26.77895		23.95266 25.94872	24.82778	24.10256
28.0	29.50000	27.15152 29.61983	26.90909	28.71572	28.31111 28.49003	27.44759 29.77315	27.41667 29.35385	27.71901		27.17160 29.43590	29.55556
31.5	32.77778	33.09091	29.76224 33.09091		31.22945 31.43636	30.05994 33.03030	30.44318 32.97778		31.33333		
35.5	37.00909	36.76768	36.09917	34.59560	33.38462 36.78930	36.38333 36.95862	34.22222 36.14872	34.74747		35.09848	34.29705 36.93529
40.0	42.31313		40.72727	38.07172	37.06993 40.32673	40.36364 40.47619	38.00000	41.26263	39.11111	39.40239	42.92328
45.0		43.27273	45.25253	43.47576	44.75207 46.96356	43.11538 46.72360	43.44691	44.70118	43.49074	42.98443	46.22507
50.0	47.60227	48.64646	52.43636	48.15865	51.47929	47.83217 51.40152	47.62450	52.16479	47.44444	50.30093	53.25397
56.0	55.16883	54.72727	59.39394	56.16170	58.65385	57.02479 58.98416	53.46087 58.60134	56.51186	57.29733	54.87374 59.20032	57.35043
63.0	66.15152	60.00000 63.27273	66.81818	62.02747	64.29364	64.59803		65.85315	62.50617	64.58217	64.46886
71.0		65.33333 74.81250	74.74747	70.76374	74.35897	72.92219	67.69123 74.20000	71.34091	70.50362	74.44537	69.42801
80.0		82.60000	82.55443	77.57802 83.11931	81.50888	79.86264	83.03333	81.41434	76.91304	81.21313	79.44444
90.0		88.50000	94.18182	91.93238	93.33333	92.96514	91.01731	88.19886	89.27047	88.22009	85.55556 92.67399
100.0		100.15385	103.25118	102.21429	102.30769	101.81319	103.64444	103.79138	97.38596	96.24009	99.80276

2x 

3x 



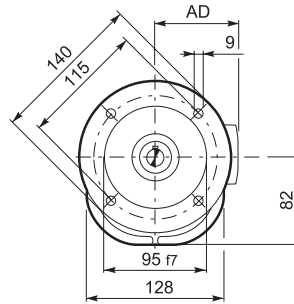
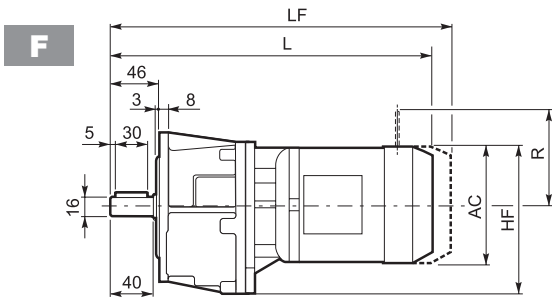
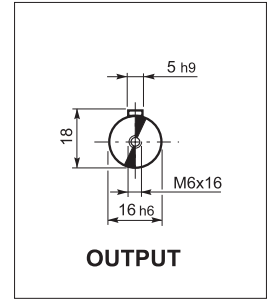
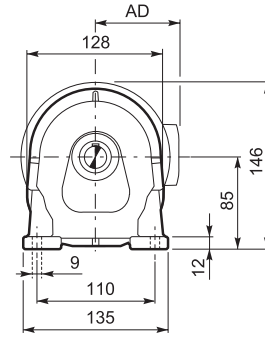
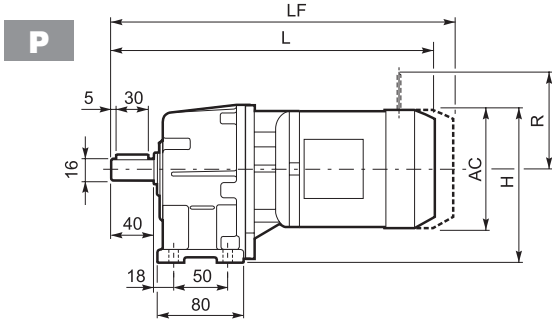
$i_N$	C12	C22	C32	C36	C41	C51	C61	C70	C80	C90	C100
112.2		112.00000	110.62626	111.50649	110.05917	113.60510	113.61026	112.44066	109.50347	107.00379 116.73140	111.90476
125.5		122.18182	122.35587	125.80220	120.64178	124.41758	128.14222	126.83497	119.45833		120.51282
140.0		136.50000	136.04040 148.40771	139.78022	132.86713 145.64282	134.62559 147.43872	140.46359	137.40455	136.68519 149.11111	134.13580 146.32997	139.68254
160.0		151.66667	167.43434	161.97033	164.10256	160.49861	150.03077 164.45680	150.30339 162.82867	168.99259	157.76199	150.42735 162.10526
180.0		178.50000	186.03816	183.46154	179.88166	175.77423	178.59394	179.18945	184.35556	172.10399	185.37037
200.0		200.66667		206.39423	190.76923 209.11243	197.87075	195.76643	194.12190	197.85897	212.38169	199.62963
225.0		225.75000	215.57172	230.88697		216.70330	217.40754	220.91375	215.84615	231.68911	
250.0		261.00000	244.17508	255.00183	239.94755	240.85197 263.77530	238.31211	239.32323 251.28438	261.85613	268.49591	244.21811 263.00412
280.0			274.69697	290.91758	263.01943		275.27766	272.22475	285.66123	292.90463	300.50725
315.0				318.93187	304.19580 333.44540	297.76563 326.10577	301.74667	317.86109	334.27376	338.95085	323.62319
355.0				341.71272			337.66889 370.13705	344.34951	364.66228	369.76457	380.49708
400.0				377.94421 420.21429	381.81818 418.53147	379.60764 415.73718	421.48741	409.39931	417.48199	419.04541	409.76608
450.0				458.41558	450.24207	463.88750	462.01504	443.51592	455.43490	457.14044	466.73611
500.0				517.18681	493.53457	508.03846	521.11170	512.03745	529.26678		502.63889
560.0				574.65201	543.54736	549.72115	571.21860	554.70724	577.38194	534.22163 582.78723	582.59259
630.0				665.87802	595.81153	602.04142 655.36932	610.12513 668.79101	606.78035 657.34538	664.32106	652.82863	627.40741
710.0				754.23077	671.32867 735.87951	717.74476	726.28202	735.97521	724.71389	712.17669	720.29630
800.0				848.50962	780.41958	807.97222	796.11683	797.30647	783.37099	773.62229 843.95159	775.70370 843.33333
900.0					855.45992	884.87179		922.59000	854.58654 945.71181	922.30089	908.20513
1000.0								999.47250 1069.05117	1031.68561	1006.14643	1003.88889
1125.0								1158.13876	1168.03704	1137.05888	1081.11111
1250.0									1274.22222	1240.42787	
1400.0								1362.26180 1475.78362	1357.84306 1481.28333		





### 30 DIMENSÕES

## C 05...M



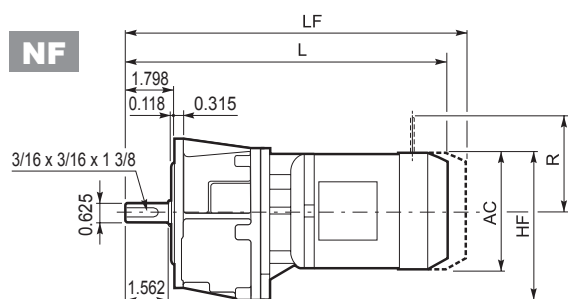
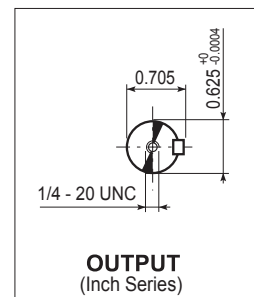
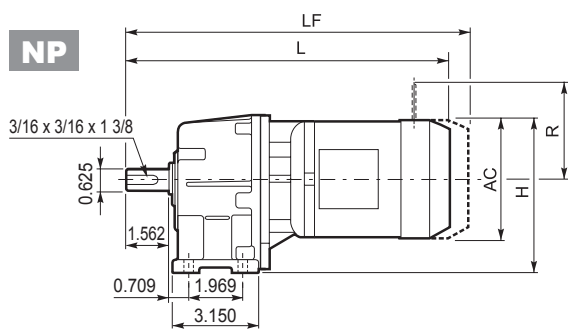
Dimensões em mm

										M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD		LF		R	AD	R	AD	
C 05 2	S0	M0	110	140	137	287	91	7	—	—	—	—	—	—	
C 05 2	S05	M05	121	145.5	142.5	332	95	8	398	10	96	122	116	95	
C 05 2	S1	M1	138	154	151	360.5	108	11	423	13	103	135	124	108	





## C 05...M



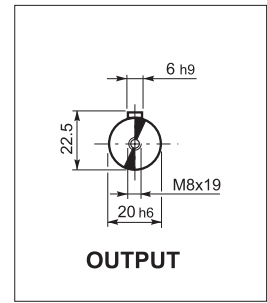
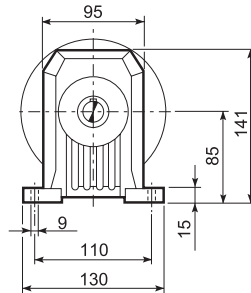
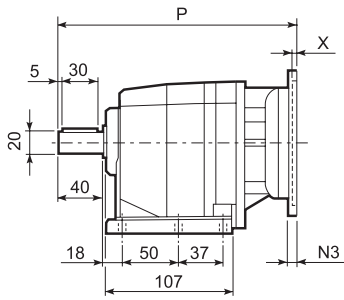
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

			AC	H	HF	L	AD	lbs	M...FD M...FA		M...FD		M...FA	
									LF	lbs	R	AD	R	AD
C 05 2	S0	M0	4.331	5.512	5.394	11.287	3.583	15	—	—	—	—	—	—
C 05 2	S05	M05	4.764	5.728	5.610	13.058	3.740	18	15.657	22	3.780	4.803	4.567	3.740
C 05 2	S1	M1	5.433	6.063	5.945	14.180	4.252	24	16.641	29	4.055	5.315	4.882	4.252

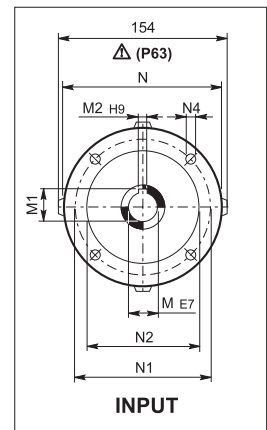
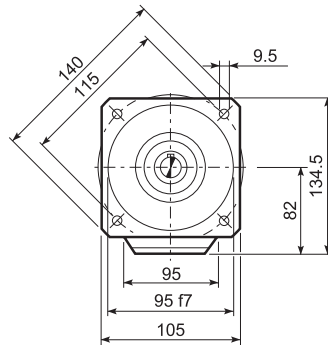
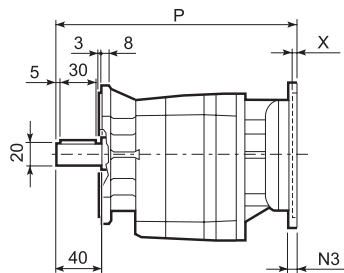


## C 12...P (IEC)

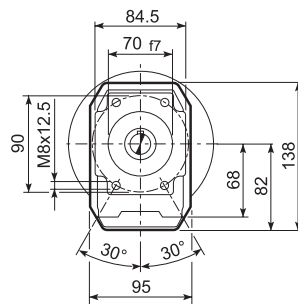
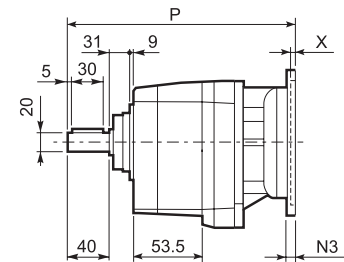
**P**



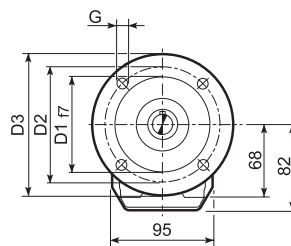
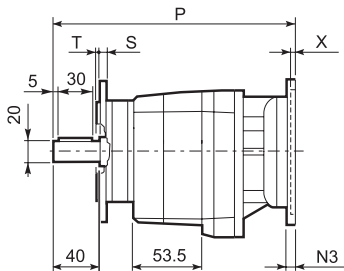
**F**



**U**



**UF**



### C 12 2 U

	D1	D2	D3	G	T	S
<b>FA</b>	80	100	120	7	3	8
<b>FB</b>	95	115	140	9	3	10
<b>FC</b>	110	130	160	9	3	10

Dimensões em mm

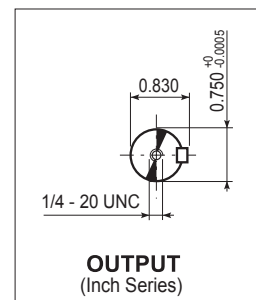
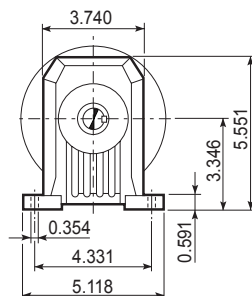
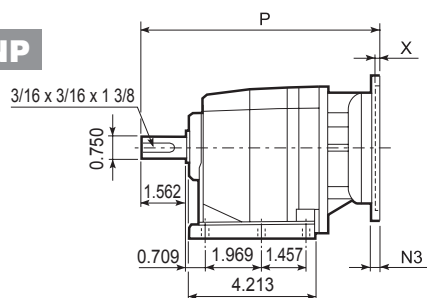
		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
<b>C 12 2</b>	<b>P63</b>	11	12.8	4	140	115	95	—	M8x19	4	244.5	6
<b>C 12 2</b>	<b>P71</b>	14	16.3	5	160	130	110	—	M8x16	4.5	244.5	6
<b>C 12 2</b>	<b>P80</b>	19	21.8	6	200	165	130	—	M10x12	4	264	7
<b>C 12 2</b>	<b>P90</b>	24	27.3	8	200	165	130	—	M10x12	4	264	7
<b>C 12 2</b>	<b>P100</b>	28	31.3	8	250	215	180	—	M12x16	4.5	274	11
<b>C 12 2</b>	<b>P112</b>	28	31.3	8	250	215	180	—	M12x16	4.5	274	11

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

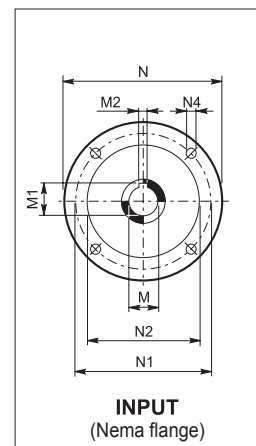
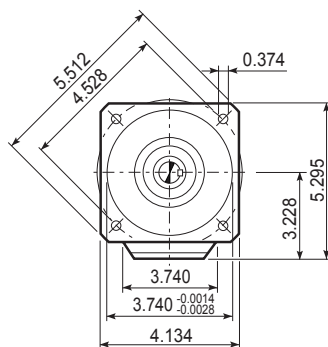
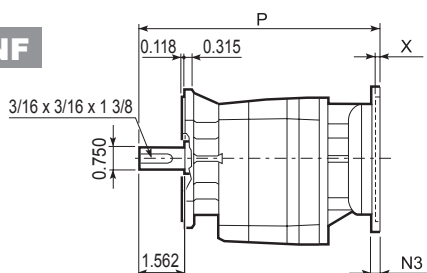


## C 12...N(NEMA Input)

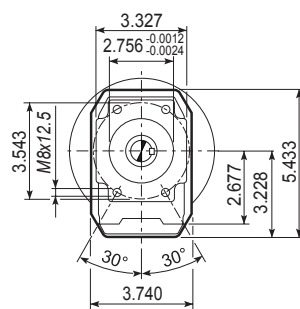
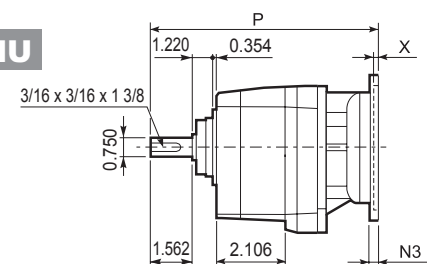
**NP**



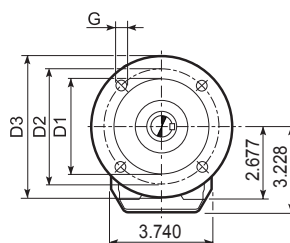
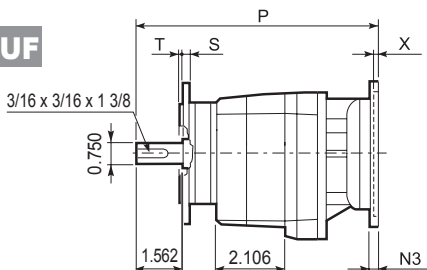
**NF**



**NU**



**NUF**



C 12 2 NU						
	D1	D2	D3	G	T	S
FA	3.150 $\begin{smallmatrix} -0.0012 \\ -0.0024 \end{smallmatrix}$	3.937	4.724	0.276	0.118	0.315
FB	3.740 $\begin{smallmatrix} -0.0014 \\ -0.0028 \end{smallmatrix}$	4.528	5.512	0.354	0.118	0.394
FC	4.331 $\begin{smallmatrix} -0.0014 \\ -0.0028 \end{smallmatrix}$	5.118	6.299	0.354	0.118	0.394

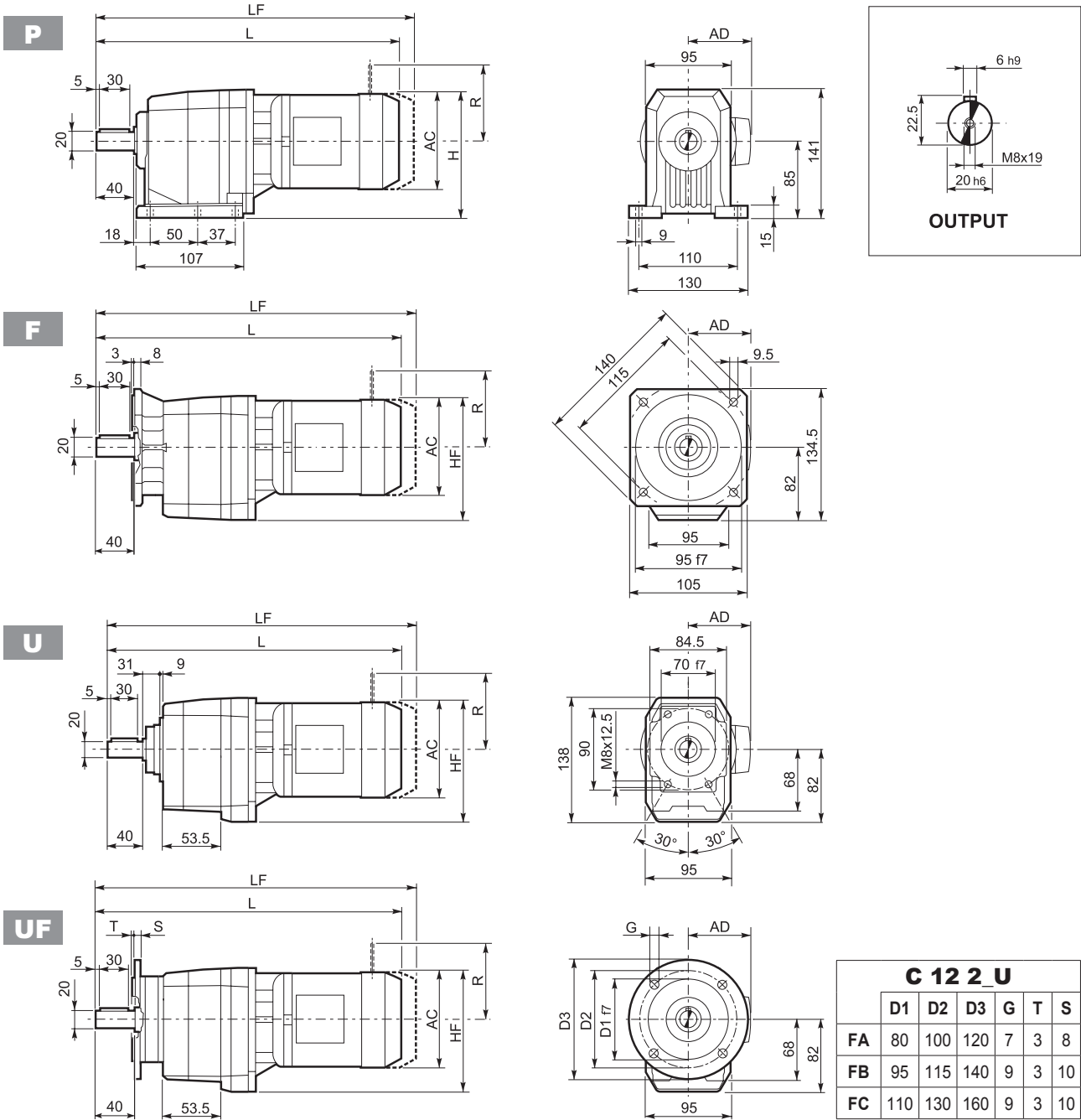
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
C 12 2	N56C	0.625 $\begin{smallmatrix} +0.0020 \\ +0.0013 \end{smallmatrix}$	0.710	0.188 $\begin{smallmatrix} +0.0012 \\ +0 \end{smallmatrix}$	6.496	5.875	4.500	0.472	0.394	0.197	10.401	13
C 12 2	N140TC	0.875 $\begin{smallmatrix} +0.0024 \\ +0.0016 \end{smallmatrix}$	0.964	0.188 $\begin{smallmatrix} +0.0012 \\ +0 \end{smallmatrix}$	6.496	5.875	4.500	0.472	0.394	0.197	10.401	15
C 12 2	N180TC	1.125 $\begin{smallmatrix} +0.0024 \\ +0.0016 \end{smallmatrix}$	1.241	0.250 $\begin{smallmatrix} +0.0014 \\ +0 \end{smallmatrix}$	8.996	7.250	8.500	0.630	0.551	0.217	11.228	24

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC



## C 12...M/ME



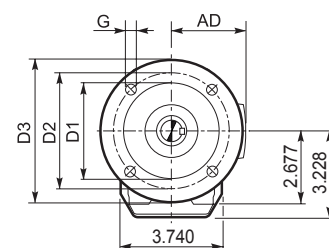
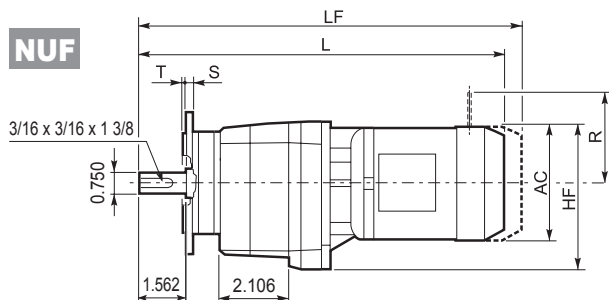
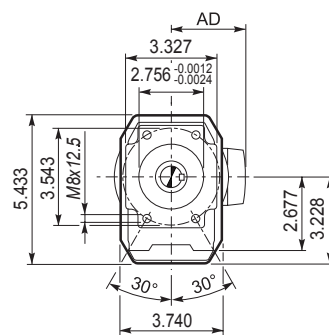
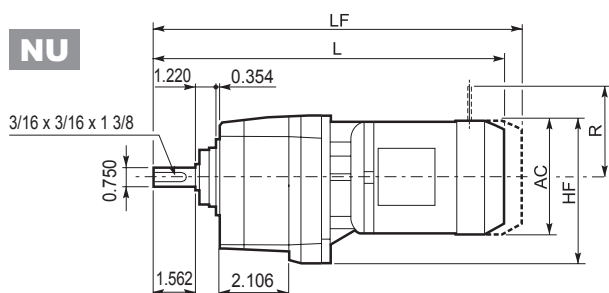
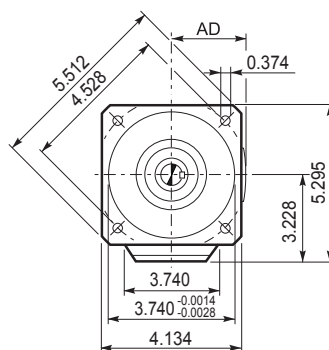
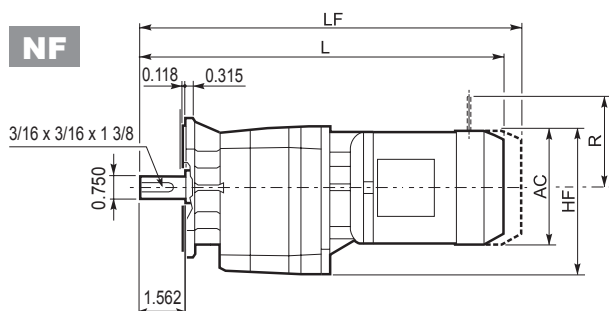
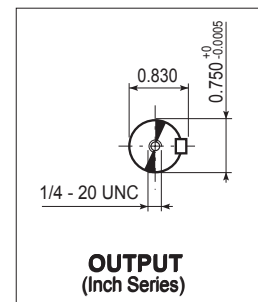
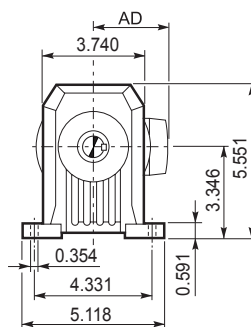
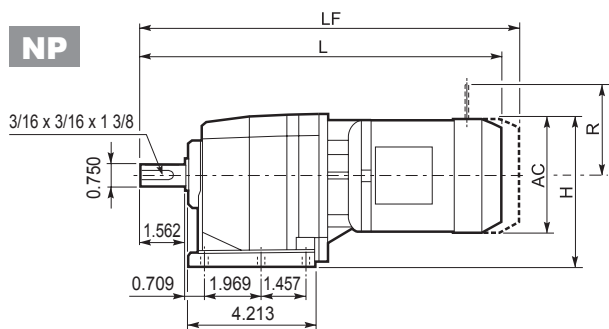
C 12 2 U						
	D1	D2	D3	G	T	S
FA	80	100	120	7	3	8
FB	95	115	140	9	3	10
FC	110	130	160	9	3	10

Dimensões em mm

Motor Icon	S	M	AC	H	HF	L	AD	Kg	M...FD M...FA		M...FD		M...FA	
									LF	Kg	R	AD	R	AD
C 12 2	S05	M05	121	145.5	142.5	370.5	95	9	436.5	10	96	122	116	95
C 12 2	S1	M1	138	154	151	404.5	108	11	460.5	13	103	135	124	108
C 12 2	S2	M2S	156	163	160	428.5	119	15	498.5	18	129	146	134	119
C 12 2	S2	ME2S	156	163	160	428.5	119	15	—	—	—	—	—	—
C 12 2	S3	ME3S	195	182.5	179.5	471.5	142	21.5	—	—	—	—	—	—
C 12 2	S3	ME3L	195	182.5	179.5	503.5	142	22	—	—	—	—	—	—



# C 12...M/ME



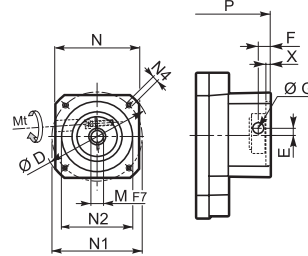
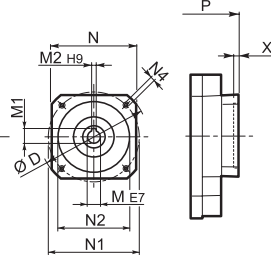
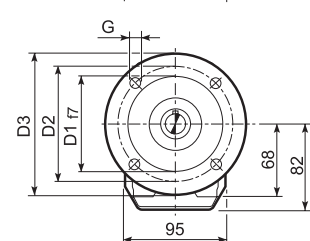
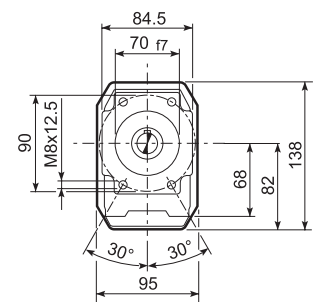
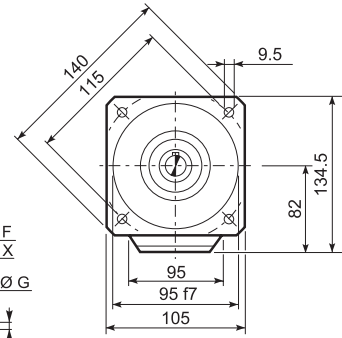
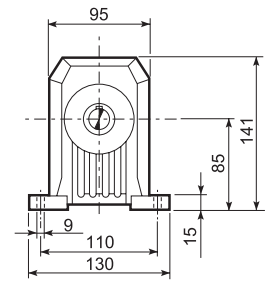
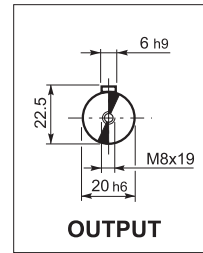
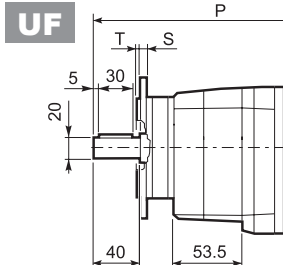
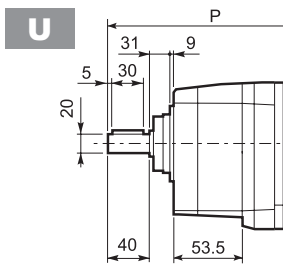
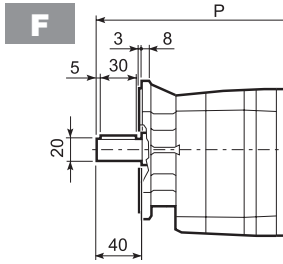
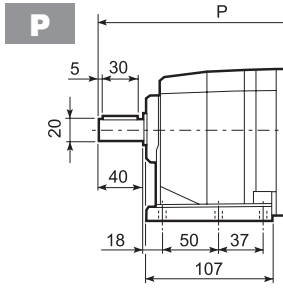
C 12 2 NU							
	D1	D2	D3	G	T	S	
FA	3.150 <sup>-0.0012</sup> <sub>-0.0024</sub>	3.937	4.724	0.276	0.118	0.315	
FB	3.740 <sup>-0.0014</sup> <sub>-0.0028</sub>	4.528	5.512	0.354	0.118	0.394	
FC	4.331 <sup>-0.0014</sup> <sub>-0.0028</sub>	5.118	6.299	0.354	0.118	0.394	

Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

			AC	H	HF	L	AD	lbs	M...FD		M...FD		M...FA	
									M...FA	lbs	R	AD	R	AD
C 12 2	S05	M05	4.764	5.728	5.610	14.574	3.740	20	17.172	22	3.780	4.803	4.567	3.740
C 12 2	S1	M1	5.433	6.063	5.945	15.913	4.252	24	18.117	29	4.055	5.315	4.882	4.252
C 12 2	S2	M2S	6.142	6.417	6.299	16.857	4.685	33	19.613	40	5.079	5.748	5.276	4.685
C 12 2	S2	ME2S	6.142	6.417	6.299	16.857	4.685	33	—	—	—	—	—	—
C 12 2	S3	ME3S	7.677	7.185	7.067	18.550	5.591	47	—	—	—	—	—	—
C 12 2	S3	ME3L	7.677	7.185	7.067	19.810	5.591	49	—	—	—	—	—	—



# C 12...SK / SC



SK...

SC...

C 12 2 U						
	D1	D2	D3	G	T	S
FA	80	100	120	7	3	8
FB	95	115	140	9	3	10
FC	110	130	160	9	3	10

Dimensões em mm

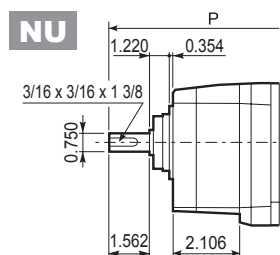
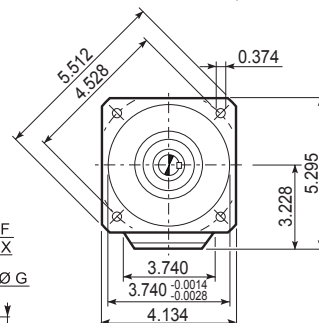
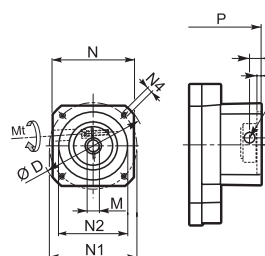
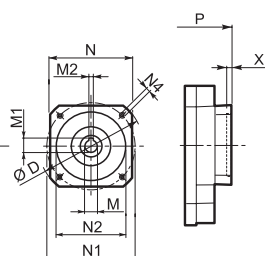
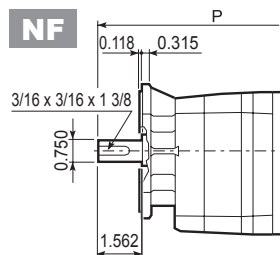
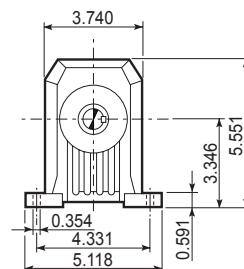
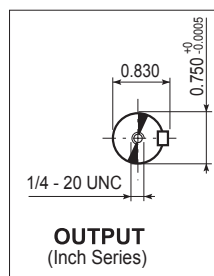
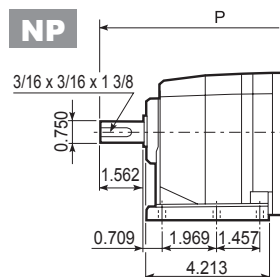
		D	M	M1	M2	N	N1	N2	N4	X	P	kg
C 12 2	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	216	6
C 12 2	SK60B	102	14	16.3	5	82	75	60	M5x10	4	223	5
C 12 2	SK80A	115	14	16.3	5	90	100	80	M6x12	4	223	5
C 12 2	SK80C	120	19	21.8	6	96	100	80	M6x12	4	264	7
C 12 2	SK95A	130	14	16.3	5	102	115	95	M8x12	4	264	6
C 12 2	SK95B	130	19	21.8	6	102	115	95	M8x12	4	264	7
C 12 2	SK95C	130	24	27.3	8	102	115	95	M8x12	4	264	7
C 12 2	SK110A	150	19	21.8	6	120	130	110	M8x12	5	264	7
C 12 2	SK110B	150	24	27.3	8	120	130	110	M8x12	5	264	7

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	kg	
C 12 2	SC60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	243	7
C 12 2	SC60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	243	6
C 12 2	SC80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	243	6
C 12 2	SC80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	287.5	8
C 12 2	SC95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	287.5	7
C 12 2	SC95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	287.5	8
C 12 2	SC95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	287.5	8
C 12 2	SC110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	287.5	10
C 12 2	SC110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	287.5	10



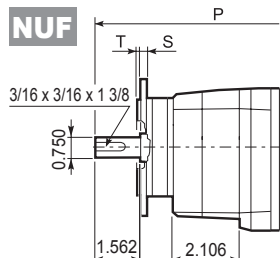
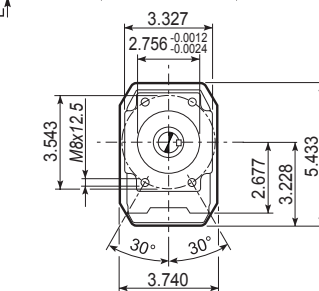


# C 12...SK / SC



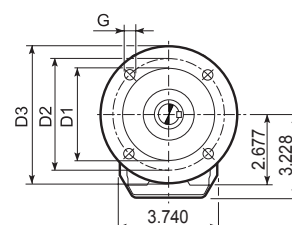
**SK...**

**SC...**



C 12 2 NU							
	D1	D2	D3	G	T	S	
FA	3.150 <i>-0.0012 -0.0024</i>	3.937	4.724	0.276	0.118	0.315	
FB	3.740 <i>-0.0014 -0.0028</i>	4.528	5.512	0.354	0.118	0.394	
FC	4.331 <i>-0.0014 -0.0028</i>	5.118	6.299	0.354	0.118	0.394	

Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

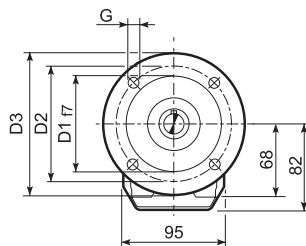
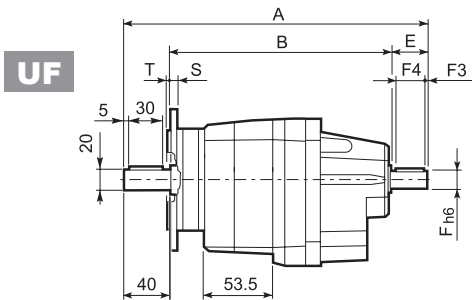
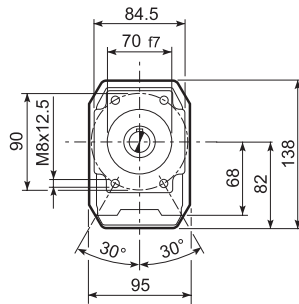
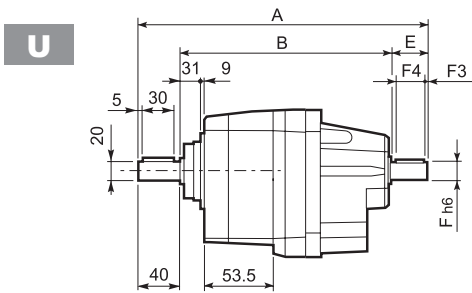
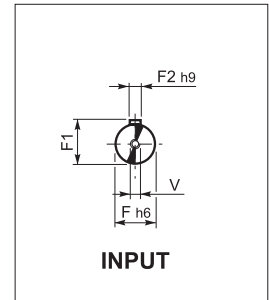
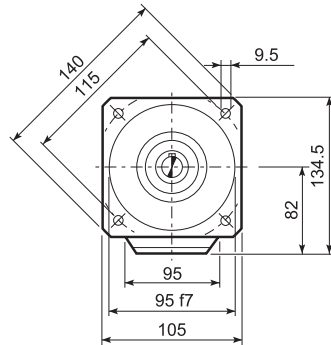
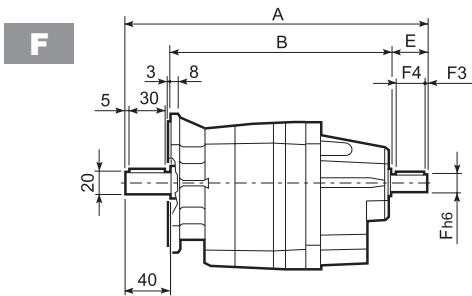
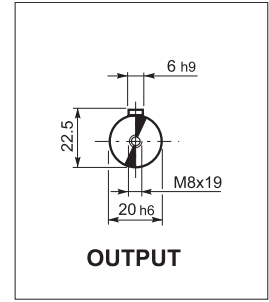
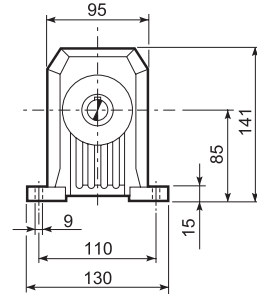
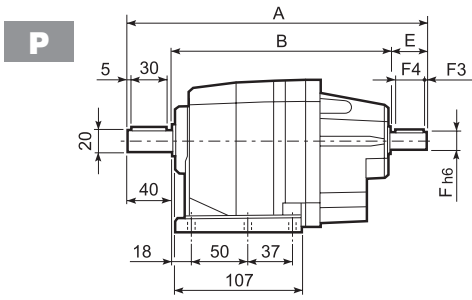


		D	M	M1	M2	N	N1	N2	N4	X	P	lbs
C 12 2	SK60A	4.016	0.433 <i>+0.0020 +0.0013</i>	0.504	0.157 <i>+0.0012 +</i>	3.228	2.953	2.362	M5x10	0.138	8.491	13
C 12 2	SK60B	4.016	0.551 <i>+0.0020 +0.0013</i>	0.642	0.197 <i>+0.0012 +</i>	3.228	2.953	2.362	M5x10	0.157	8.767	11
C 12 2	SK80A	4.528	0.551 <i>+0.0020 +0.0013</i>	0.642	0.197 <i>+0.0012 +</i>	3.543	3.937	3.150	M6x12	0.157	8.767	11
C 12 2	SK80C	4.724	0.748 <i>+0.0024 +0.0016</i>	0.858	0.236 <i>+0.0012 +</i>	3.780	3.937	3.150	M6x12	0.157	10.381	15
C 12 2	SK95A	5.118	0.551 <i>+0.0020 +0.0013</i>	0.642	0.197 <i>+0.0012 +</i>	4.016	4.528	3.740	M8x12	0.157	10.381	13
C 12 2	SK95B	5.118	0.748 <i>+0.0024 +0.0016</i>	0.858	0.236 <i>+0.0012 +</i>	4.016	4.528	3.740	M8x12	0.157	10.381	15
C 12 2	SK95C	5.118	0.945 <i>+0.0024 +0.0016</i>	1.075	0.315 <i>+0.0014 +</i>	4.016	4.528	3.740	M8x12	0.157	10.381	15
C 12 2	SK110A	5.906	0.748 <i>+0.0024 +0.0016</i>	0.858	0.236 <i>+0.0014 +</i>	4.724	5.118	4.331	M8x12	0.197	10.381	15
C 12 2	SK110B	5.906	0.945 <i>+0.0024 +0.0016</i>	1.075	0.315 <i>+0.0014 +</i>	4.724	5.118	4.331	M8x12	0.197	10.381	15

		Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P	lbs
C 12 2	SC60A	M6 133	4.016	0.276	0.492	0.492	0.433 <i>+0.0013 +0.0006</i>	3.228	2.953	2.362	M5x10	0.157	9.554	15
C 12 2	SC60B	M6 133	4.016	0.276	0.492	0.492	0.551 <i>+0.0013 +0.0006</i>	3.228	2.953	2.362	M5x10	0.157	9.554	13
C 12 2	SC80A	M6 133	4.528	0.236	0.492	0.492	0.551 <i>+0.0013 +0.0006</i>	3.543	3.937	3.150	M6x12	0.157	9.554	13
C 12 2	SC80C	M6 133	4.724	0.610	0.571	0.699	0.748 <i>+0.0016 +0.0008</i>	3.780	3.937	3.150	M6x12	0.157	11.306	18
C 12 2	SC95A	M6 133	5.118	0.650	0.591	0.699	0.551 <i>+0.0013 +0.0006</i>	4.016	4.528	3.740	M8x12	0.157	11.306	15
C 12 2	SC95B	M6 133	5.118	0.650	0.591	0.699	0.748 <i>+0.0016 +0.0008</i>	4.016	4.528	3.740	M8x16	0.157	11.306	18
C 12 2	SC95C	M6 133	5.118	0.650	0.591	0.699	0.945 <i>+0.0016 +0.0008</i>	4.016	4.528	3.740	M8x16	0.157	11.306	18
C 12 2	SC110A	M6 133	5.906	0.650	0.630	0.699	0.748 <i>+0.0016 +0.0008</i>	4.724	5.118	4.331	M8x16	0.197	11.306	22
C 12 2	SC110B	M6 133	5.906	0.650	0.630	0.699	0.945 <i>+0.0016 +0.0008</i>	4.724	5.118	4.331	M8x16	0.197	11.306	22



## C 12...HS



**C 12 2 U**

	D1	D2	D3	G	T	S
<b>FA</b>	80	100	120	7	3	8
<b>FB</b>	95	115	140	9	3	10
<b>FC</b>	110	130	160	9	3	10

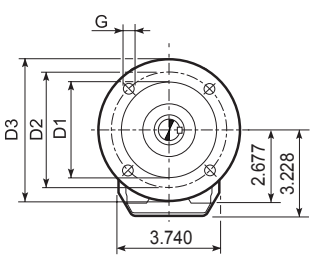
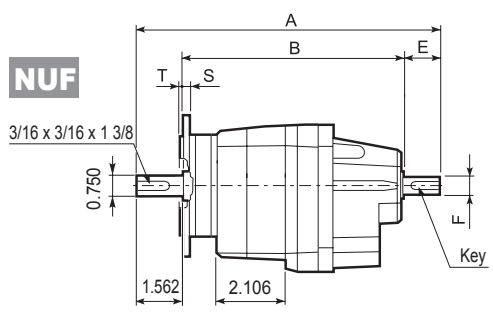
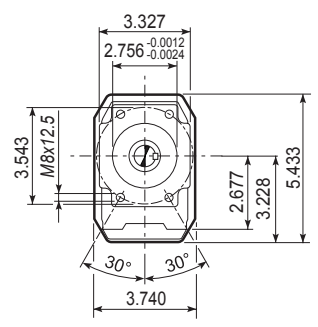
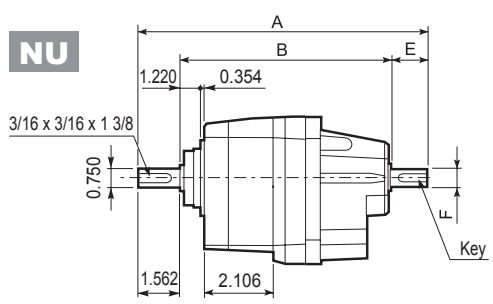
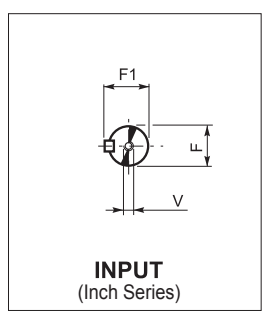
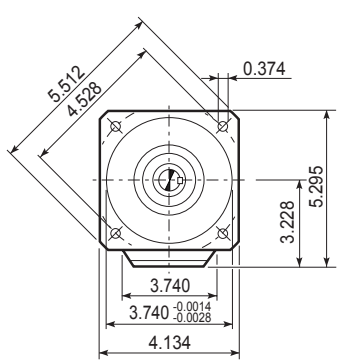
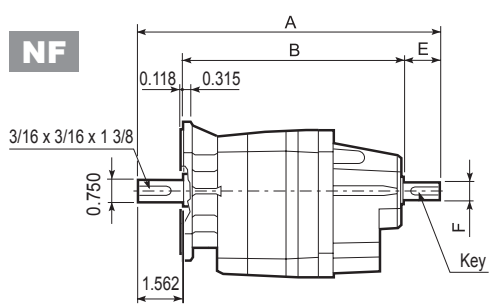
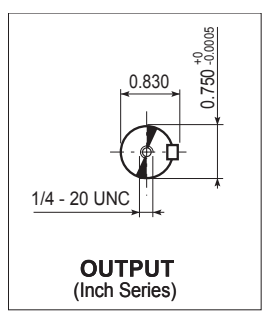
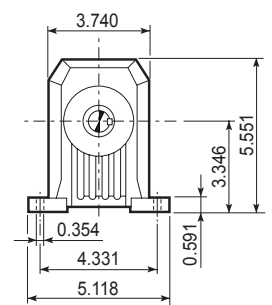
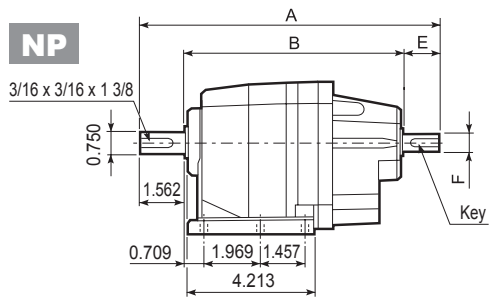
Dimensões em mm

		A	B	E	F	F1	F2	F3	F4	V	Kg
<b>C 12 2</b>	<b>HS</b>	251.5	171.5	40	16	18	5	2.5	35	M6x16	7.8

Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS



# C 12...NHS



C 12 2 NU							
	D1	D2	D3	G	T	S	
FA	3.150 <sup>-0.0012</sup> / <sub>-0.0024</sub>	3.937	4.724	0.276	0.118	0.315	
FB	3.740 <sup>-0.0014</sup> / <sub>-0.0028</sub>	4.528	5.512	0.354	0.118	0.394	
FC	4.331 <sup>-0.0014</sup> / <sub>-0.0028</sub>	5.118	6.299	0.354	0.118	0.394	

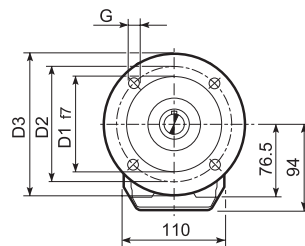
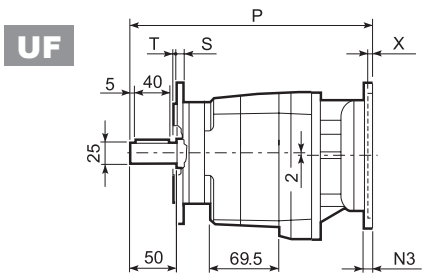
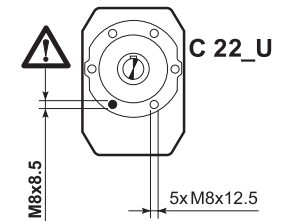
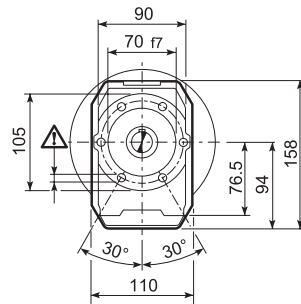
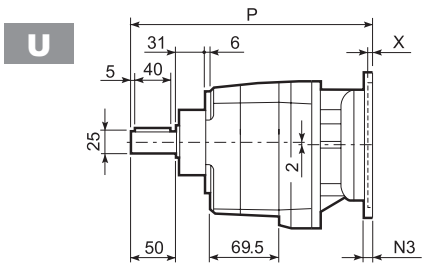
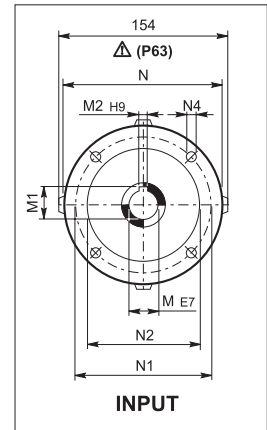
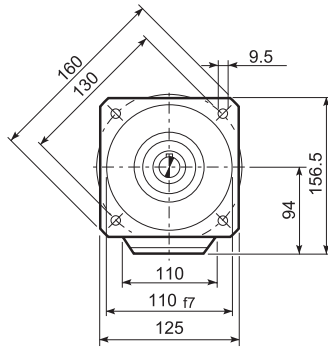
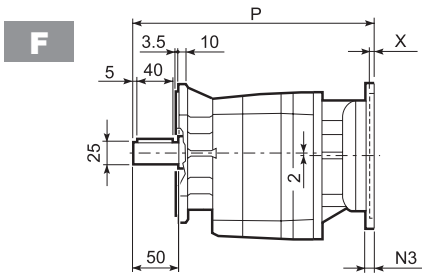
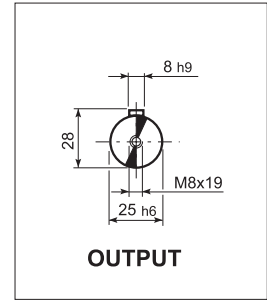
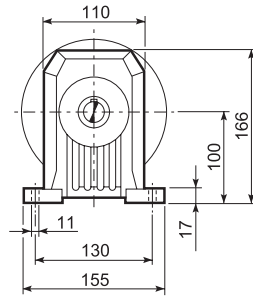
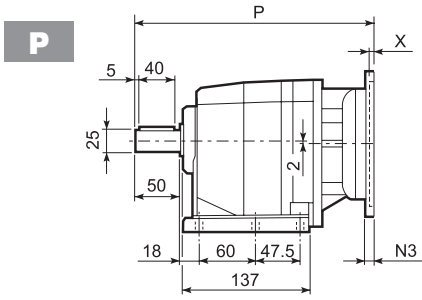
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		A	B	E	F	F1	V	Key	lbs		
		C 12 2	NHS	9.889	6.752	1.575	0.625 <sup>+0</sup> / <sub>-0.0004</sub>	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	17.196

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS



## C 22...P(IEC)



C 22_U						
	D1	D2	D3	G	T	S
FA	95	115	140	9	3	10
FB	110	130	160	9	3	10
FC	130	165	200	11	3.5	11

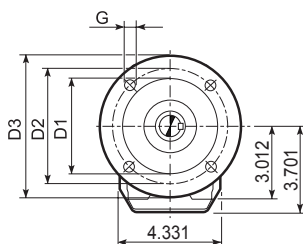
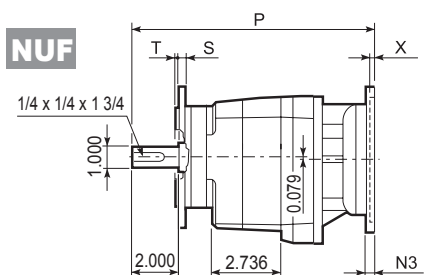
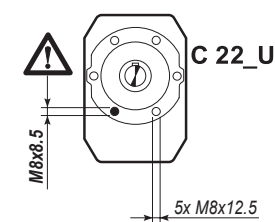
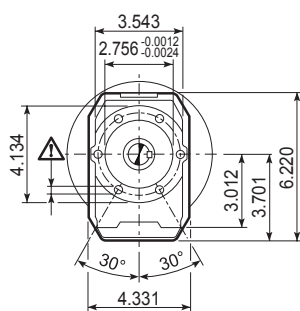
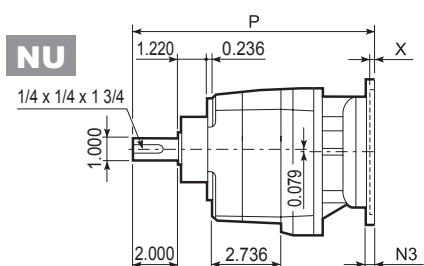
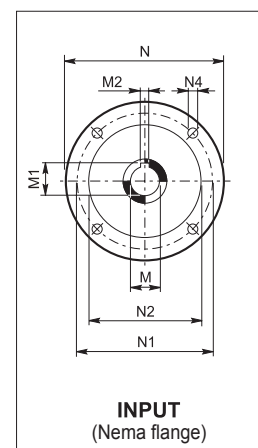
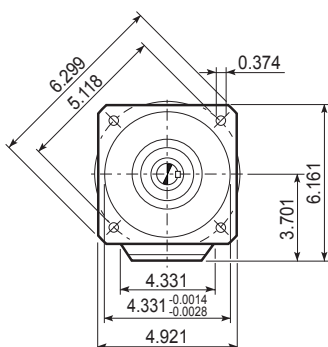
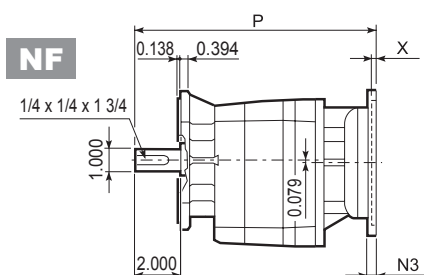
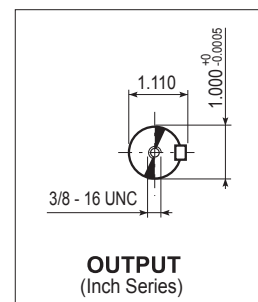
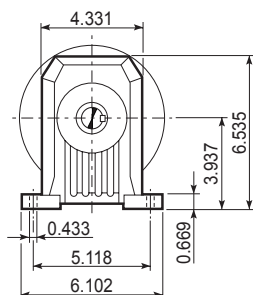
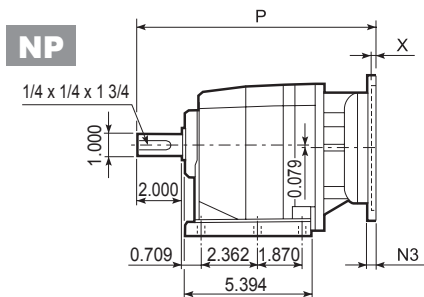
Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
C 22 2	P63	11	12.8	4	140	115	95	—	M8x19	4	273	7
C 22 2	P71	14	16.3	5	160	130	110	—	M8x16	4.5	273	7
C 22 2	P80	19	21.8	6	200	165	130	—	M10x12	4	292.5	8
C 22 2	P90	24	27.3	8	200	165	130	—	M10x12	4	292.5	8
C 22 2	P100	28	31.3	8	250	215	180	—	M12x16	4.5	302.5	12
C 22 2	P112	28	31.3	8	250	215	180	—	M12x16	4.5	302.5	12
C 22 3	P63	11	12.8	4	140	115	95	—	M8x19	4	328.5	8
C 22 3	P71	14	16.3	5	160	130	110	—	M8x16	4.5	328.5	8
C 22 3	P80	19	21.8	6	200	165	130	—	M10x12	4	348	9
C 22 3	P90	24	27.3	8	200	165	130	—	M10x12	4	348	9
C 22 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	358	13
C 22 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	358	13

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA



## C 22...N(NEMA Input)



C 22 NU						
	D1	D2	D3	G	T	S
<b>FA</b>	3.740 <sup>+0.0014</sup> <sub>-0.0028</sub>	4.528	5.512	0.354	0.118	0.394
<b>FB</b>	4.331 <sup>+0.0014</sup> <sub>-0.0028</sub>	5.118	6.299	0.354	0.118	0.394
<b>FC</b>	5.118 <sup>+0.0017</sup> <sub>-0.0033</sub>	6.496	7.874	0.433	0.138	0.433

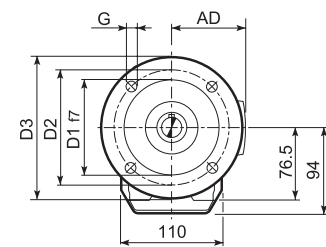
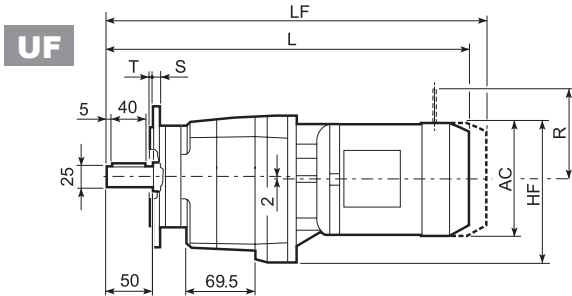
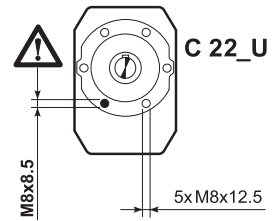
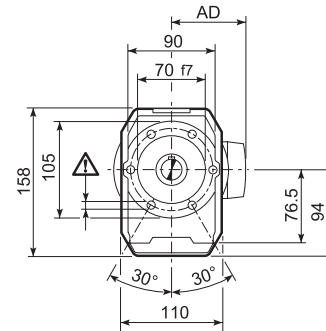
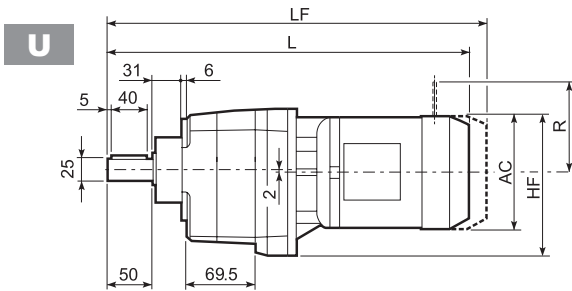
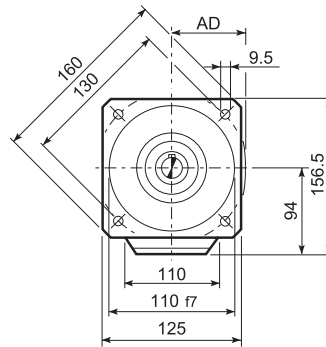
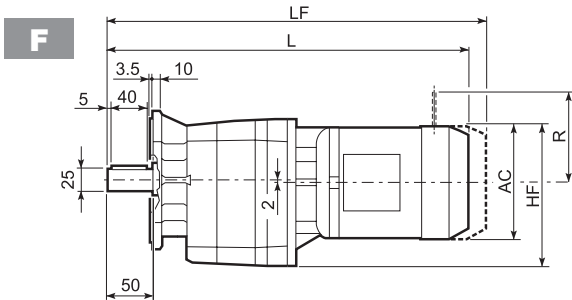
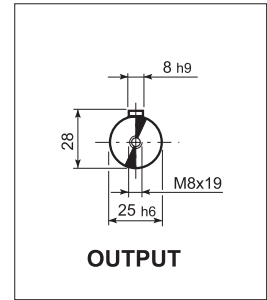
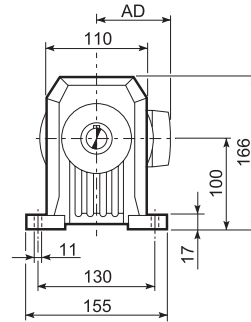
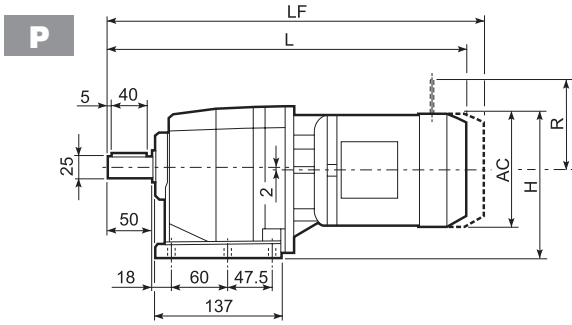
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
<b>C 22 2</b>	<b>N56C</b>	0.625 <sup>+0.0020</sup> <sub>+0.0013</sub>	0.710	0.188 <sup>+0.0012</sup> <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	11.567	15
<b>C 22 2</b>	<b>N140TC</b>	0.875 <sup>+0.0024</sup> <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	11.567	18
<b>C 22 2</b>	<b>N180TC</b>	1.125 <sup>+0.0024</sup> <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> <sub>+0</sub>	8.996	7.250	8.500	0.630	0.551	0.217	12.394	26
<b>C 22 3</b>	<b>N56C</b>	0.625 <sup>+0.0020</sup> <sub>+0.0013</sub>	0.710	0.188 <sup>+0.0012</sup> <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	13.752	18
<b>C 22 3</b>	<b>N140TC</b>	0.875 <sup>+0.0024</sup> <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	13.752	20
<b>C 22 3</b>	<b>N180TC</b>	1.125 <sup>+0.0024</sup> <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> <sub>+0</sub>	8.996	7.250	8.500	0.630	0.551	0.217	14.579	29

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC



## C 22...M/ME



C 22_U						
	D1	D2	D3	G	T	S
FA	95	115	140	9	3	10
FB	110	130	160	9	3	10
FC	130	165	200	11	3.5	11

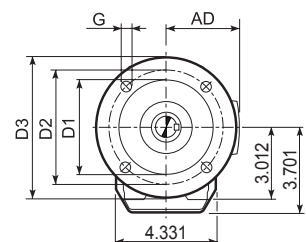
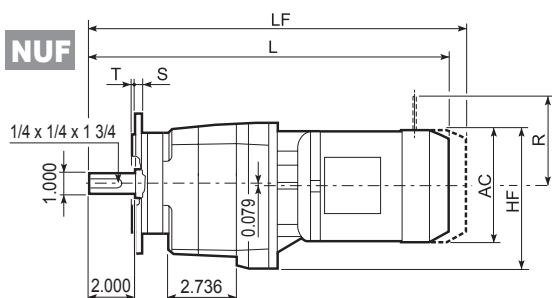
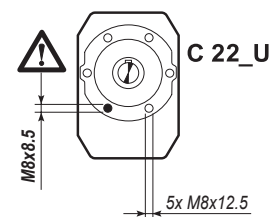
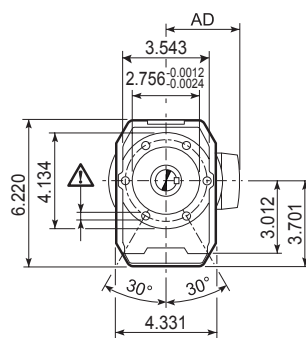
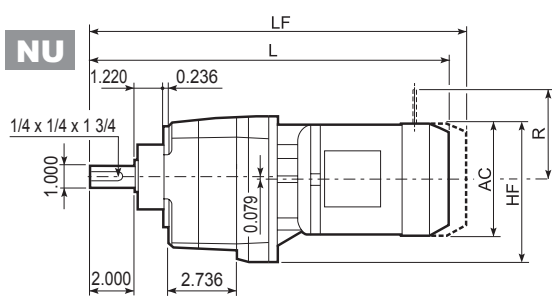
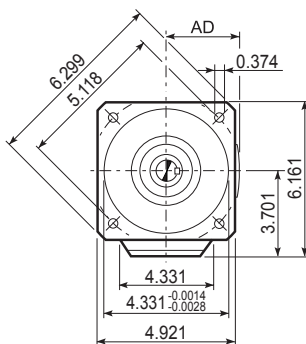
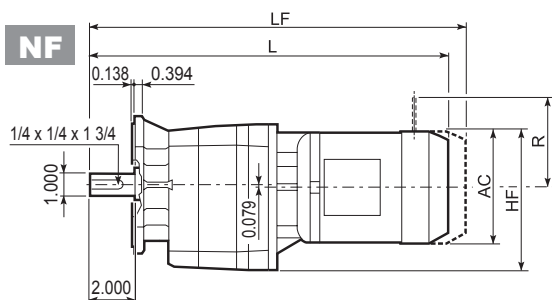
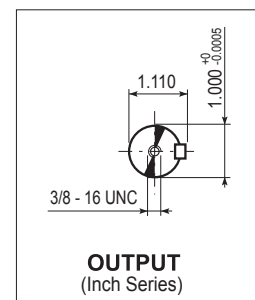
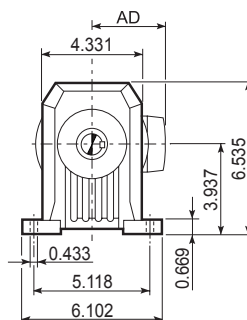
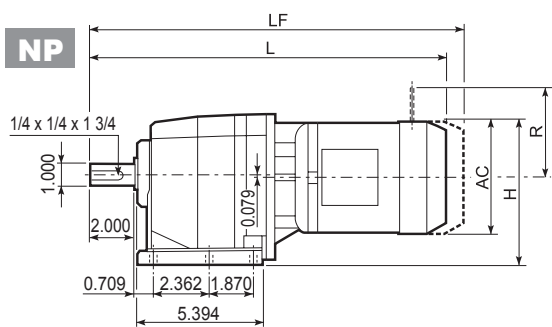
Dimensões em mm

Motor	S	M	AC	H	HF	L	AD	Kg	LF	Kg	M...FD		M...FA	
											R	AD	R	AD
C 22 2	S05	M05	121	160.5	154.5	399	95	8	465	10	96	119	116	95
C 22 2	S1	M1	138	169	163	428	108	11	489	14	103	135	124	108
C 22 2	S2	M2S	156	178	170	456	119	16	527	19	129	146	134	119
C 22 2	S2	ME2S	156	178	170	456	119	16	—	—	—	—	—	—
C 22 2	S3	ME3S	195	197.5	191.5	500	142	22.5	—	—	—	—	—	—
C 22 2	S3	ME3L	195	197.5	191.5	532	142	27	—	—	—	—	—	—
C 22 3	S05	M05	121	160.5	154.5	454.5	95	11	520.5	12	96	122	116	95
C 22 3	S1	M1	138	169	163	483.5	108	13	544.5	15	103	135	124	108
C 22 3	S2	ME2S	156	178	170	511.5	119	18	—	—	—	—	—	—
C 22 3	S3	ME3S	195	197.5	191.5	555.5	142	24.5	—	—	—	—	—	—
C 22 3	S3	ME3L	195	197.5	191.5	587.5	142	29	—	—	—	—	—	—





# C 22...M/ME



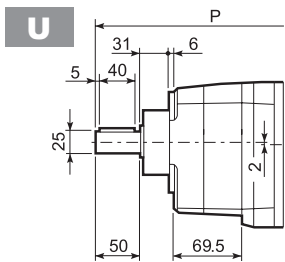
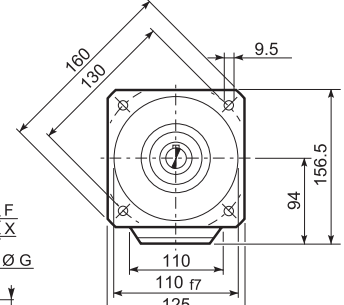
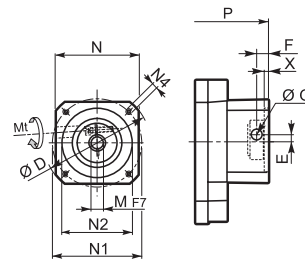
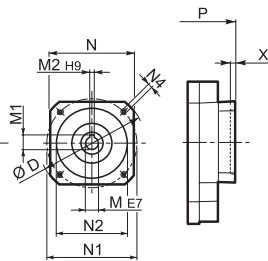
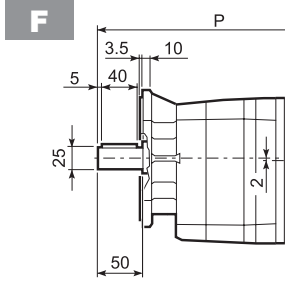
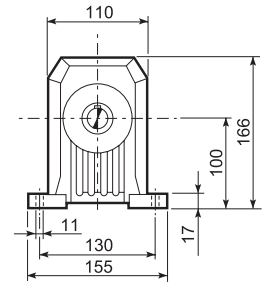
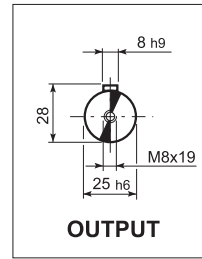
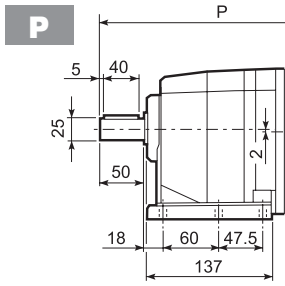
C 22 NU						
	D1	D2	D3	G	T	S
FA	3.740 <i>3.740</i> -0.0014 -0.0028	4.528	5.512	0.354	0.118	0.394
FB	4.331 <i>4.331</i> -0.0014 -0.0028	5.118	6.299	0.354	0.118	0.394
FC	5.118 <i>5.118</i> -0.0017 -0.0033	6.496	7.874	0.433	0.138	0.433

Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

			AC	H	HF	L	AD	lbs	M...FD M...FA		M...FD		M...FA	
									lbs	lbs	R	AD	R	AD
C 22 2	S05	M05	4.764	6.319	6.083	15.740	3.740	18	18.339	22	3.780	4.685	4.567	3.740
C 22 2	S1	M1	5.433	6.654	6.417	16.882	4.252	24	19.283	31	4.055	5.315	4.882	4.252
C 22 2	S2	M2S	6.142	7.008	6.693	17.984	4.685	35	20.780	42	5.079	5.748	5.276	4.685
C 22 2	S2	ME2S	6.142	7.008	6.693	17.984	4.685	35	—	—	—	—	—	—
C 22 2	S3	ME3S	7.677	7.776	7.539	19.717	5.591	50	—	—	—	—	—	—
C 22 2	S3	ME3L	7.677	7.776	7.539	20.976	5.591	60	—	—	—	—	—	—
C 22 3	S05	M05	4.764	6.319	6.083	17.925	3.740	24	20.524	26	3.780	4.803	4.567	3.740
C 22 3	S1	M1	5.433	6.654	6.417	19.067	4.252	29	21.469	33	4.055	5.315	4.882	4.252
C 22 3	S2	ME2S	6.142	7.008	6.693	20.169	4.685	40	—	—	—	—	—	—
C 22 3	S3	ME3S	7.677	7.776	7.539	21.902	5.591	54	—	—	—	—	—	—
C 22 3	S3	ME3L	7.677	7.776	7.539	23.161	5.591	64	—	—	—	—	—	—

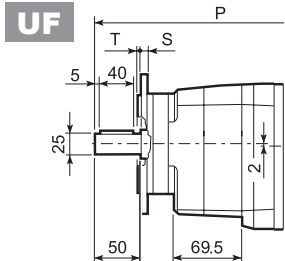
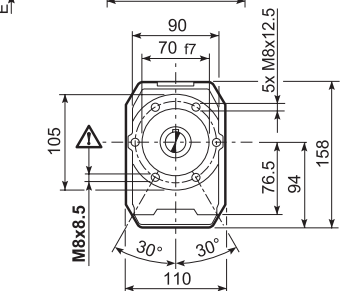


## C 22...SK / SC



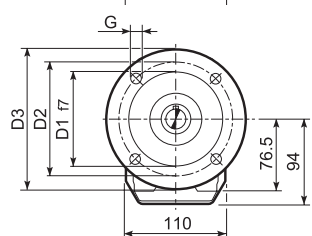
**SK...**

**SC...**



C 22_U						
	D1	D2	D3	G	T	S
FA	95	115	140	9	3	10
FB	110	130	160	9	3	10
FC	130	165	200	11	3.5	11

Dimensões em mm



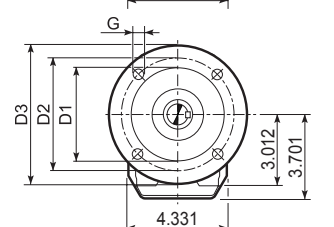
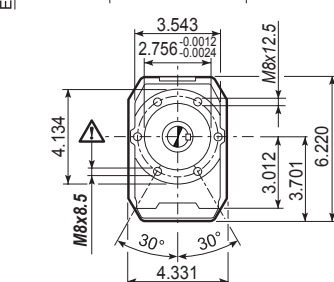
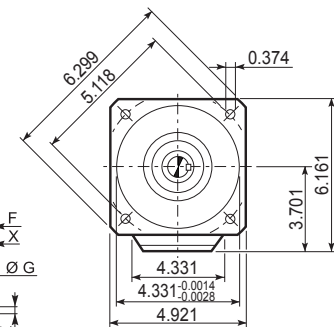
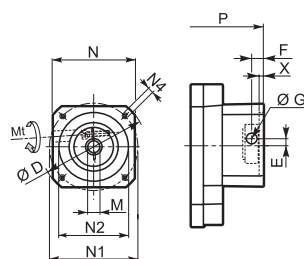
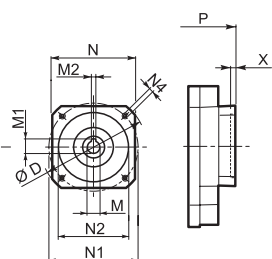
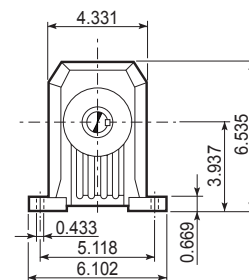
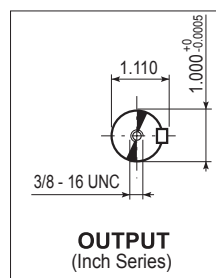
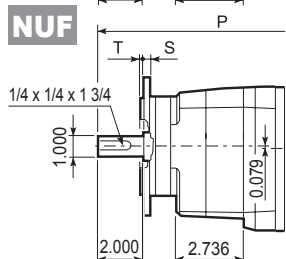
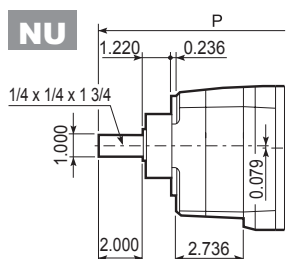
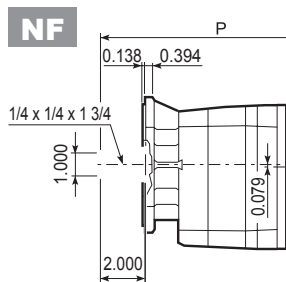
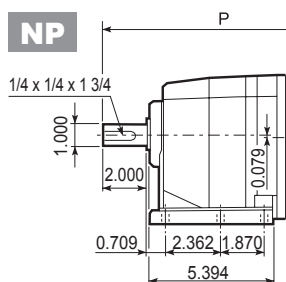
		D	M	M1	M2	N	N1	N2	N4	X	P		Kg
											2x	3x	
C 22 2/3	SK60A*	102	11	12.8	4	82	75	60	M5x10	3.5	224.5	300	6/9
C 22 2/3	SK60B*	102	14	16.3	5	82	75	60	M5x10	4	251.5	307	7/8
C 22 2/3	SK80A*	115	14	16.3	5	90	100	80	M6x12	4	251.5	307	7/8
C 22 2/3	SK80C	120	19	21.8	6	96	100	80	M6x12	4	292.5	348	8/9
C 22 2/3	SK95A	130	14	16.3	5	102	115	95	M8x12	4	292.5	348	8/9
C 22 2/3	SK95B	130	19	21.8	6	102	115	95	M8x12	4	292.5	348	8/9
C 22 2/3	SK95C	130	24	27.3	8	102	115	95	M8x12	4	292.5	348	8/9
C 22 2/3	SK110A	150	19	21.8	6	120	130	110	M8x12	5	292.5	348	8/9
C 22 2/3	SK110B	150	24	27.3	8	120	130	110	M8x12	5	292.5	348	8/9

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		Kg
														2x	3x	
C 22 2/3	SC60A*	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	271.5	327	7/8
C 22 2/3	SC60B*	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	271.5	327	8/9
C 22 2/3	SC80A*	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	271.5	327	8/9
C 22 2/3	SC80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	316	371.5	9/10
C 22 2/3	SC95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	316	371.5	9/10
C 22 2/3	SC95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	316	371.5	9/10
C 22 2/3	SC95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	316	371.5	9/10
C 22 2/3	SC110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	316	371.5	10/11
C 22 2/3	SC110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	316	371.5	10/11

\* Contactar nuestro Servicio Técnico comunicando los datos relativos a la aplicación



# C 22...SK / SC



C 22 NU						
	D1	D2	D3	G	T	S
FA	3.740 <small>-0.0014 -0.0028</small>	4.528	5.512	0.354	0.118	0.394
FB	4.331 <small>-0.0014 -0.0028</small>	5.118	6.299	0.354	0.118	0.394
FC	5.118 <small>-0.0017 -0.0033</small>	6.496	7.874	0.433	0.138	0.433

Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

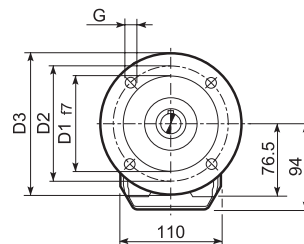
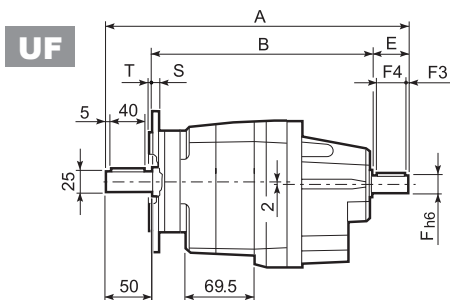
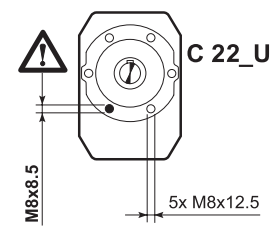
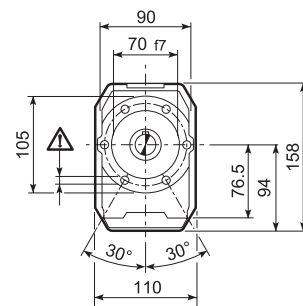
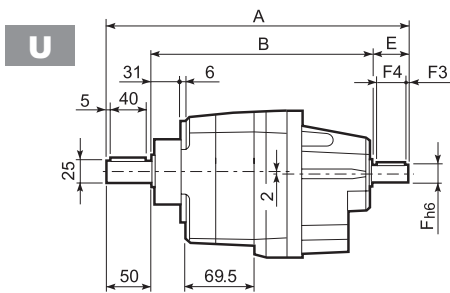
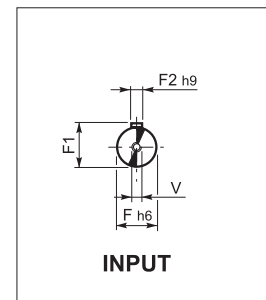
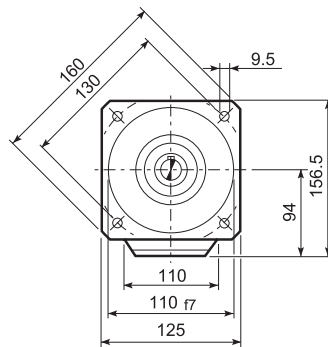
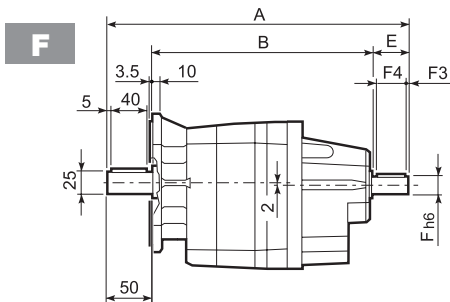
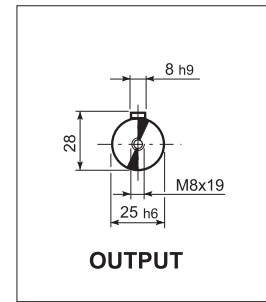
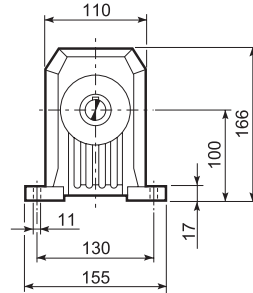
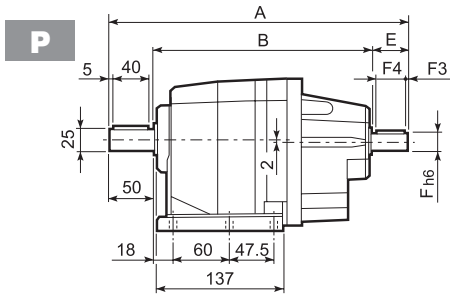
		D	M	M1	M2	N	N1	N2	N4	X	2x	3x			
		C 22 2/3	SK60A*	4.016	0.433 <small>+0.0020 +0.0013</small>	0.504	0.157 <small>+0.0012 +0</small>	3.228	2.953	2.362	<i>M5x10</i>	0.138	8.870	11.843	13/20
		C 22 2/3	SK60B*	4.016	0.551 <small>+0.0020 +0.0013</small>	0.642	0.197 <small>+0.0012 +0</small>	3.228	2.953	2.362	<i>M5x10</i>	0.157	9.933	12.118	15/18
		C 22 2/3	SK80A*	4.528	0.551 <small>+0.0020 +0.0013</small>	0.642	0.197 <small>+0.0012 +0</small>	3.543	3.937	3.150	<i>M6x12</i>	0.157	9.933	12.118	15/18
		C 22 2/3	SK80C	4.724	0.748 <small>+0.0024 +0.0016</small>	0.858	0.236 <small>+0.0012 +0</small>	3.780	3.937	3.150	<i>M6x12</i>	0.157	11.547	13.732	18/20
		C 22 2/3	SK95A	5.118	0.551 <small>+0.0020 +0.0013</small>	0.642	0.197 <small>+0.0012 +0</small>	4.016	4.528	3.740	<i>M8x12</i>	0.157	11.547	13.732	18/20
		C 22 2/3	SK95B	5.118	0.748 <small>+0.0024 +0.0016</small>	0.858	0.236 <small>+0.0012 +0</small>	4.016	4.528	3.740	<i>M8x12</i>	0.157	11.547	13.732	18/20
		C 22 2/3	SK95C	5.118	0.945 <small>+0.0024 +0.0016</small>	1.075	0.315 <small>+0.0014 +0</small>	4.016	4.528	3.740	<i>M8x12</i>	0.157	11.547	13.732	18/20
		C 22 2/3	SK110A	5.906	0.748 <small>+0.0024 +0.0016</small>	0.858	0.236 <small>+0.0012 +0</small>	4.724	5.118	4.331	<i>M8x12</i>	0.197	11.547	13.732	18/20
		C 22 2/3	SK110B	5.906	0.945 <small>+0.0024 +0.0016</small>	1.075	0.315 <small>+0.0014 +0</small>	4.724	5.118	4.331	<i>M8x12</i>	0.197	11.547	13.732	18/20

			Mt [lb-in]	D	E	F	G	M	N	N1	N2	N4	X	2x	3x				
			C 22 2/3	SC60A*	M6	133	4.016	0.276	0.492	0.492	0.433 <small>+0.0013 +0.0006</small>	3.228	2.953	2.362	<i>M5x10</i>	0.157	10.720	12.906	15/18
			C 22 2/3	SC60B*	M6	133	4.016	0.276	0.492	0.492	0.551 <small>+0.0013 +0.0006</small>	3.228	2.953	2.362	<i>M5x10</i>	0.157	10.720	12.906	18/20
			C 22 2/3	SC80A*	M6	133	4.528	0.236	0.492	0.492	0.551 <small>+0.0013 +0.0006</small>	3.543	3.937	3.150	<i>M6x12</i>	0.157	10.720	12.906	18/20
			C 22 2/3	SC80C	M6	133	4.724	0.610	0.571	0.699	0.748 <small>+0.0016 +0.0008</small>	3.780	3.937	3.150	<i>M6x12</i>	0.157	12.472	14.657	20/22
			C 22 2/3	SC95A	M6	133	5.118	0.650	0.591	0.699	0.551 <small>+0.0013 +0.0006</small>	4.016	4.528	3.740	<i>M8x16</i>	0.157	12.472	14.657	20/22
			C 22 2/3	SC95B	M6	133	5.118	0.650	0.591	0.699	0.748 <small>+0.0016 +0.0008</small>	4.016	4.528	3.740	<i>M8x16</i>	0.157	12.472	14.657	20/22
			C 22 2/3	SC95C	M6	133	5.118	0.650	0.591	0.699	0.945 <small>+0.0016 +0.0008</small>	4.016	4.528	3.740	<i>M8x16</i>	0.157	12.472	14.657	20/22
			C 22 2/3	SC110A	M6	133	5.906	0.650	0.630	0.699	0.748 <small>+0.0016 +0.0008</small>	4.724	5.118	4.331	<i>M8x16</i>	0.197	12.472	14.657	22/24
			C 22 2/3	SC110B	M6	133	5.906	0.650	0.630	0.699	0.945 <small>+0.0016 +0.0008</small>	4.724	5.118	4.331	<i>M8x16</i>	0.197	12.472	14.657	22/24

\* Contactar nuestro Servicio Técnico comunicando los datos relativos a la aplicación



## C 22...HS



C 22_U						
	D1	D2	D3	G	T	S
FA	95	115	140	9	3	10
FB	110	130	160	9	3	10
FC	130	165	200	11	3.5	11

Dimensões em mm

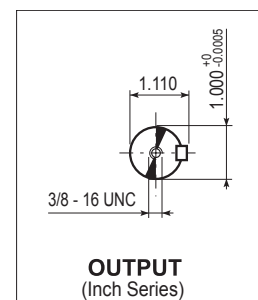
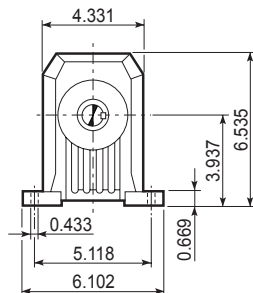
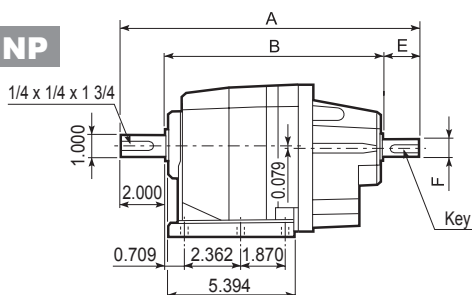
		A	B	E	F	F1	F2	F3	F4	V	Kg
C 22 2	HS	323	233	40	19	21.5	6	2.5	35	M6x16	7.2
C 22 3		335.5	245.5	40	16	18	6	2.5	36	M6x16	7.5

Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

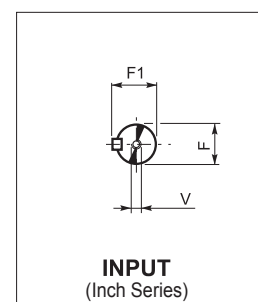
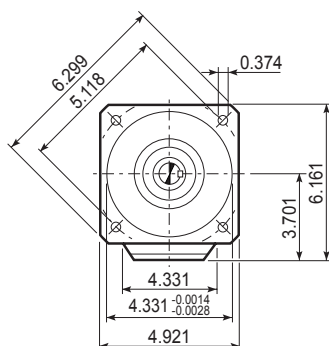
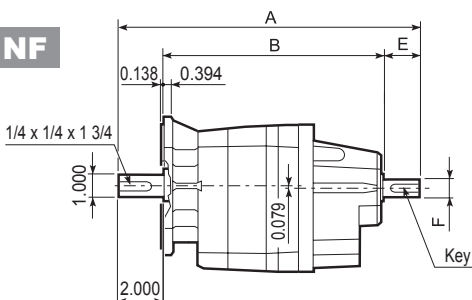


# C 22...NHS

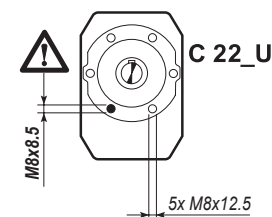
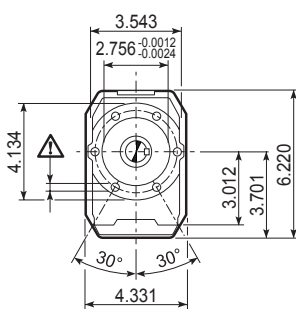
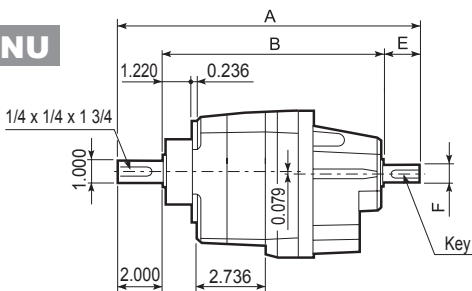
**NP**



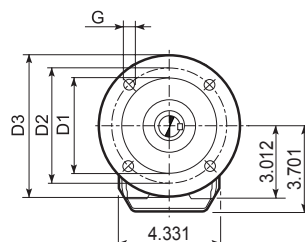
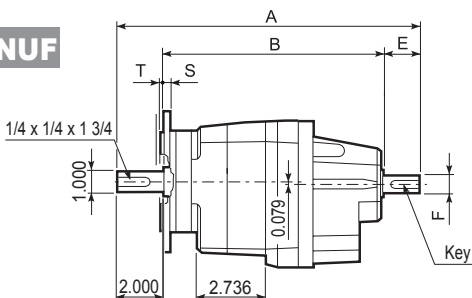
**NF**



**NU**



**NUF**



C 22 NU						
	D1	D2	D3	G	T	S
FA	3.740 <small>-0.0014 -0.0028</small>	4.528	5.512	0.354	0.118	0.394
FB	4.331 <small>-0.0014 -0.0028</small>	5.118	6.299	0.354	0.118	0.394
FC	5.118 <small>-0.0017 -0.0033</small>	6.496	7.874	0.433	0.138	0.433

Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

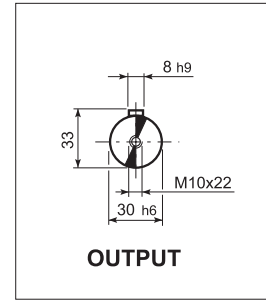
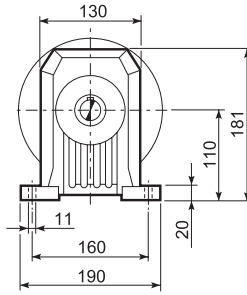
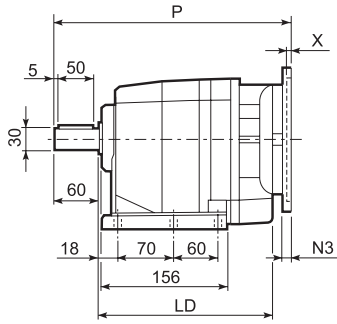
		A	B	E	F	F1	V	Key	lbs
C 22 2	NHS	12.748	9.173	1.575	0.750 <small>+0 -0.0005</small>	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	16
C 22 3		13.240	9.665	1.575	0.625 <small>+0 -0.0004</small>	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	17

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

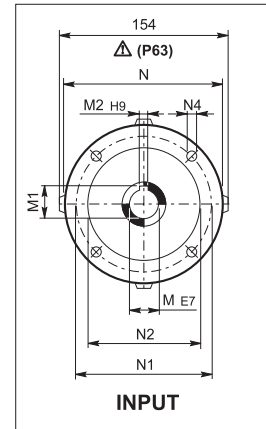
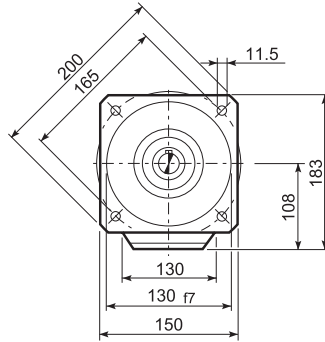
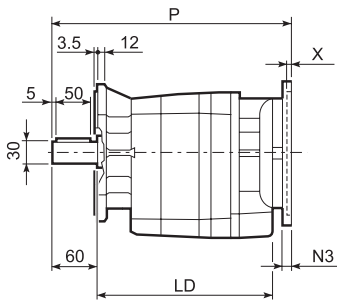


## C 32...P(IEC)

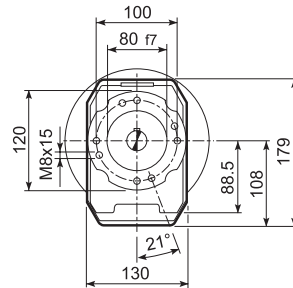
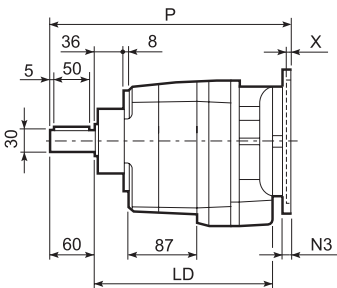
**P**



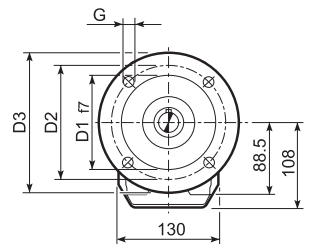
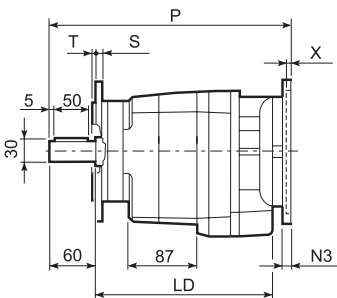
**F**



**U**



**UF**



C 32_U						
	D1	D2	D3	G	T	S
FA	110	130	160	9	3	10
FB	130	165	200	11	3.5	11
FC	180	215	250	14	4	13

Dimensões em mm

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
C 32 2	P63	217.5	11	12.8	4	140	115	95	—	M8x19	4	307.5	9
C 32 2	P71	217.5	14	16.3	5	160	130	110	—	M8x16	4.5	307.5	9
C 32 2	P80	227.5	19	21.8	6	200	165	130	—	M10x12	4	327	10
C 32 2	P90	227.5	24	27.3	8	200	165	130	—	M10x12	4	327	10
C 32 2	P100	227.5	28	31.3	8	250	215	180	—	M12x16	4.5	337	14
C 32 2	P112	227.5	28	31.3	8	250	215	180	—	M12x16	4.5	337	14
C 32 2	P132	—	38	41.3	10	300	265	230	16	14	5	373	17
C 32 3	P63	—	11	12.8	4	140	115	95	—	M8x19	4	365	10
C 32 3	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	365	10
C 32 3	P80	—	19	21.8	6	200	165	130	—	M10x12	4	384.5	11
C 32 3	P90	—	24	27.3	8	200	165	130	—	M10x12	4	384.5	11
C 32 3	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	394.5	15
C 32 3	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	394.5	15

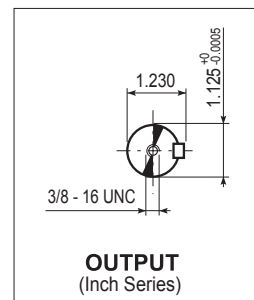
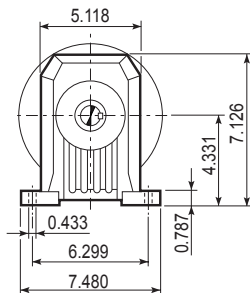
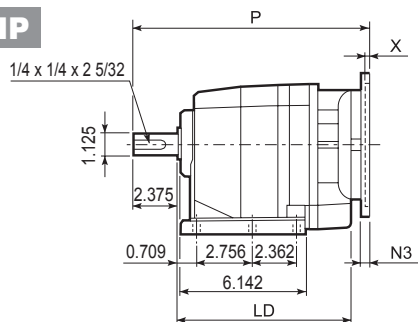
Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA



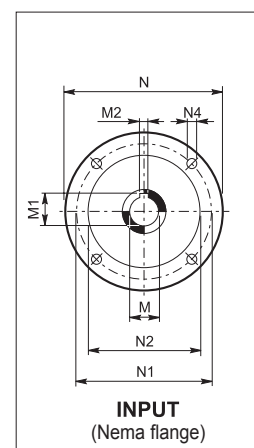
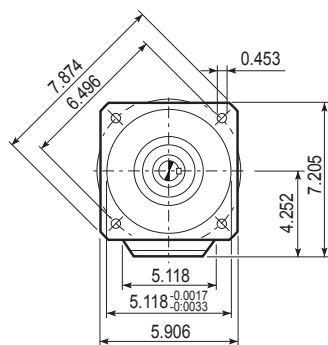
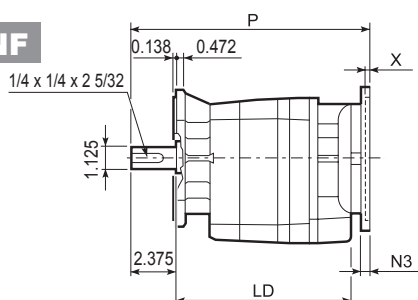


## C 32...N(NEMA Input)

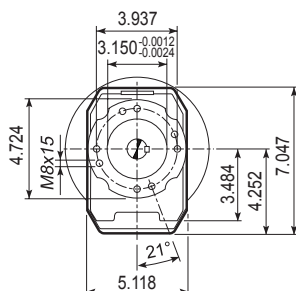
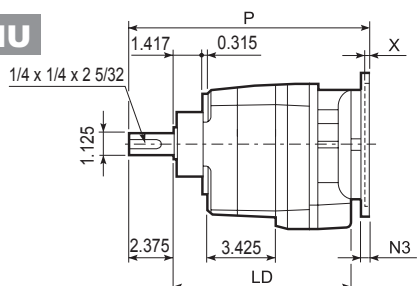
**NP**



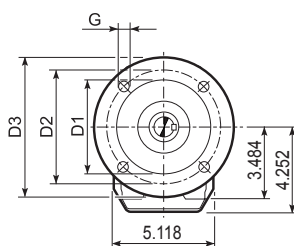
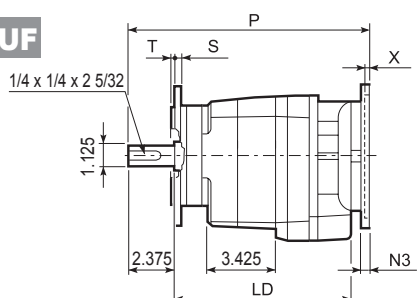
**NF**



**NU**



**NUF**



C 32 NU							
	D1	D2	D3	G	T	S	
FA	4.331 ±0.0014 / ±0.0028	5.118	6.299	0.354	0.118	0.394	
FB	5.118 ±0.0017 / ±0.0033	6.496	7.874	0.433	0.138	0.433	
FC	7.087 ±0.0017 / ±0.0033	8.465	9.843	0.551	0.157	0.512	

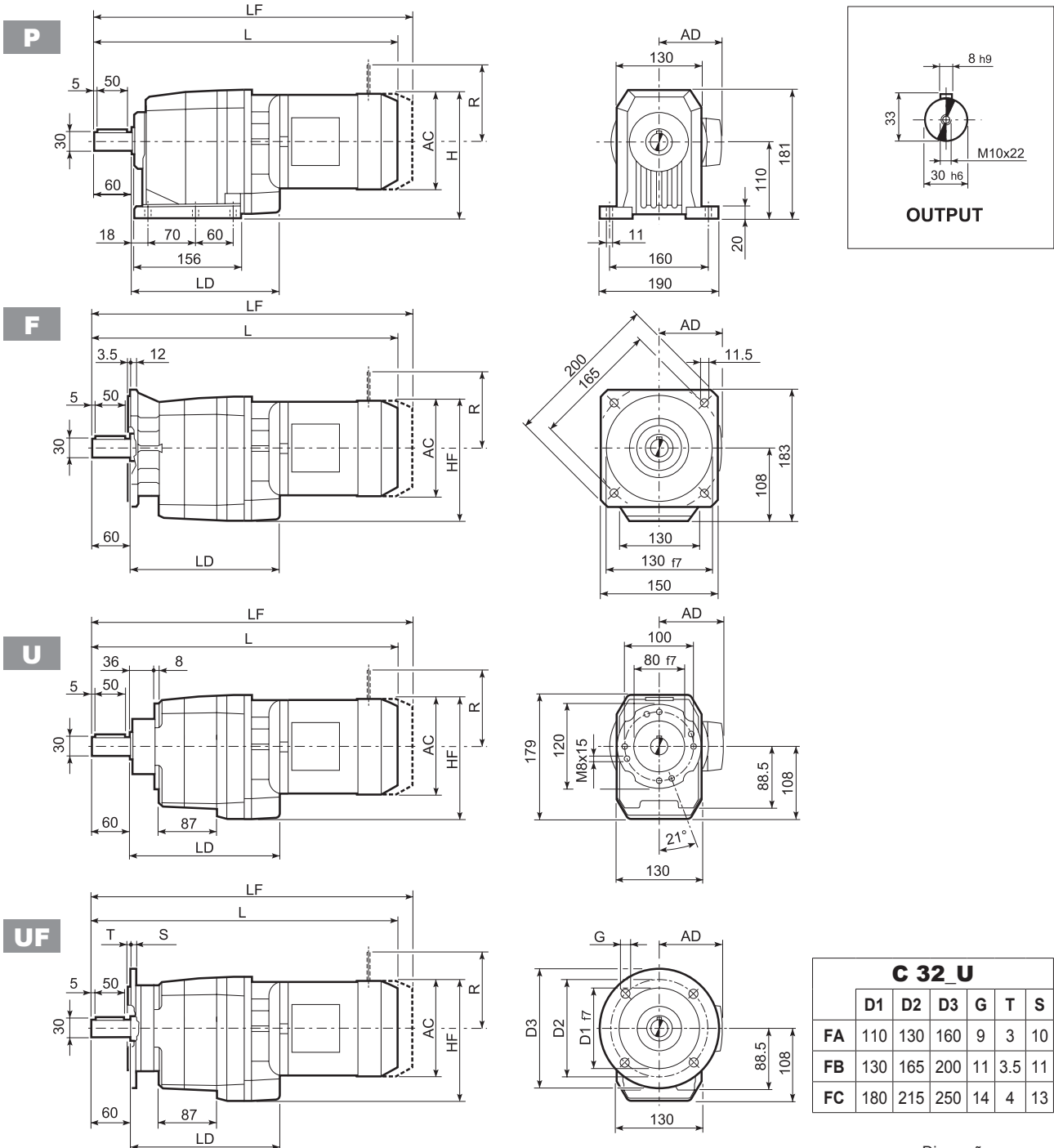
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
C 32 2	N56C	8.563	0.625 ±0.0020 / ±0.0013	0.710	0.188 ±0.0012 / +0	6.496	5.875	4.500	0.472	0.394	0.197	12.906	20
C 32 2	N140TC	8.563	0.875 ±0.0024 / ±0.0016	0.964	0.188 ±0.0012 / +0	6.496	5.875	4.500	0.472	0.394	0.197	12.906	22
C 32 2	N180TC	8.957	1.125 ±0.0024 / ±0.0016	1.241	0.250 ±0.0014 / +0	8.996	7.250	8.500	0.630	0.551	0.217	13.733	31
C 32 2	N210TC	—	1.375 ±0.0030 / ±0.0020	1.518	0.312 ±0.0014 / +0	8.996	7.250	8.500	0.531	0.531	0.217	14.875	37
C 32 3	N56C	—	0.625 ±0.0020 / ±0.0013	0.710	0.188 ±0.0012 / +0	6.496	5.875	4.500	0.472	0.394	0.197	15.170	22
C 32 3	N140TC	—	0.875 ±0.0024 / ±0.0016	0.964	0.188 ±0.0012 / +0	6.496	5.875	4.500	0.472	0.394	0.197	15.170	24
C 32 3	N180TC	—	1.125 ±0.0024 / ±0.0016	1.241	0.250 ±0.0014 / +0	8.996	7.250	8.500	0.630	0.551	0.217	15.997	33

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC



## C 32...M/ME



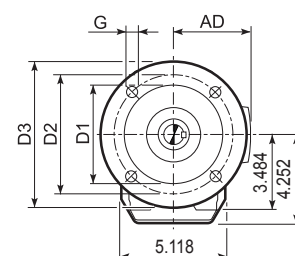
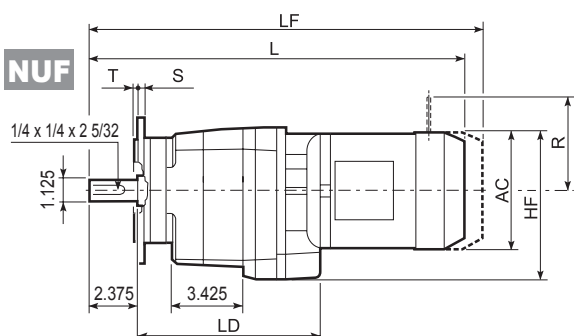
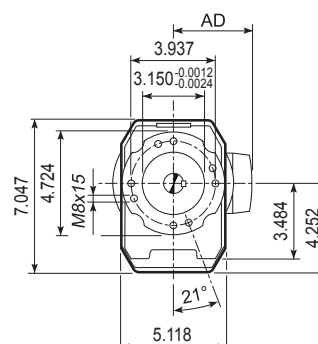
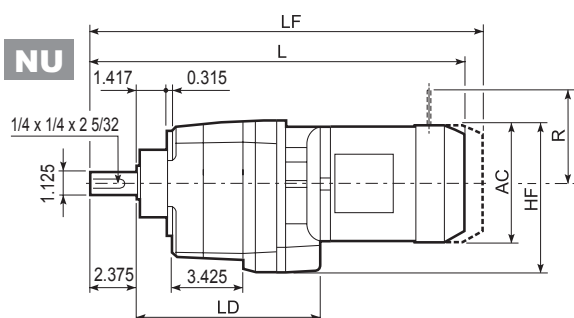
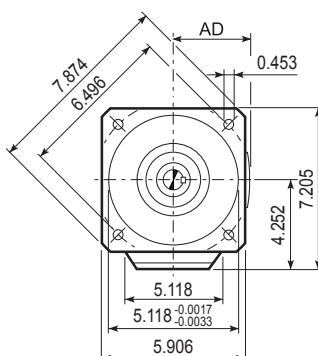
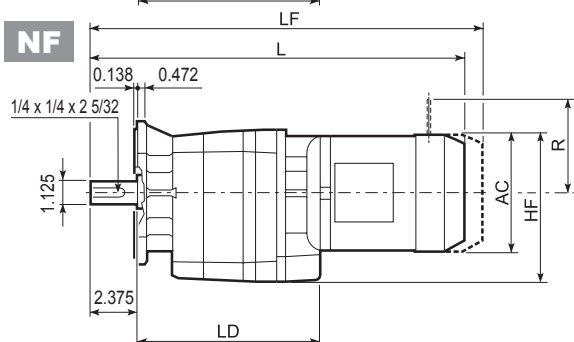
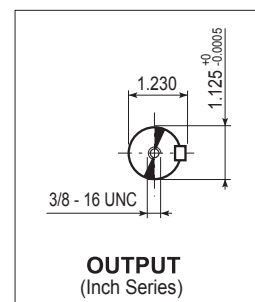
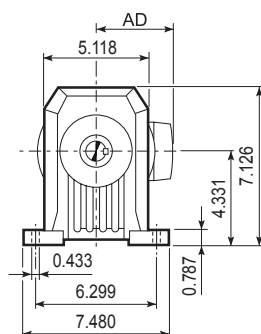
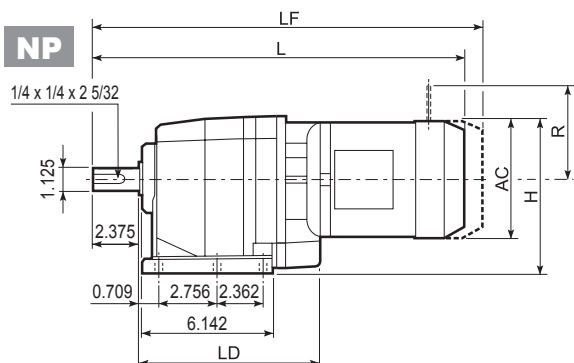
C 32_U						
	D1	D2	D3	G	T	S
FA	110	130	160	9	3	10
FB	130	165	200	11	3.5	11
FC	180	215	250	14	4	13

Dimensões em mm

Motor	S	M	AC	H	HF	L	LD	AD	Kg	M...FD		M...FD		M...FA	
										LF	Kg	R	AD	R	AD
C 32 2	S1	M1	138	179	177	462.5	205.5	108	14	523.5	16	103	135	124	108
C 32 2	S2	M2S	156	188	186	490.5	217.5	119	18	561.5	21	129	146	134	119
C 32 2	S2	ME2S	156	188	186	490.5	217.5	119	18	—	—	—	—	—	—
C 32 2	S3	ME3S	195	207.5	205.5	534.5	227.5	142	24.5	—	—	—	—	—	—
C 32 2	S3	ME3L	195	207.5	205.5	566.5	227.5	142	32	—	—	—	—	—	—
C 32 2	S4	ME4	258	239	237	674.5	—	193	66	—	—	—	—	—	—
C 32 2	S4	ME4LB	258	239	237	709.5	—	193	74	—	—	—	—	—	—
C 32 3	S05	M05	121	170.5	168.5	491	—	95	13	557	15	96	122	116	95
C 32 3	S1	M1	138	179	177	520	—	108	15	581	17	103	135	124	108
C 32 3	S2	ME2S	156	188	186	548	—	119	18	—	—	—	—	—	—
C 32 3	S3	ME3S	195	207.5	205.5	592	—	142	25.5	—	—	—	—	—	—
C 32 3	S3	ME3L	195	207.5	205.5	624	—	142	33	—	—	—	—	—	—



## C 32...M/ME



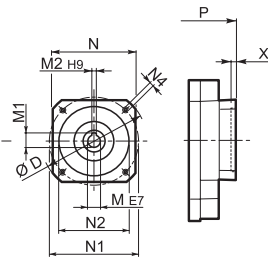
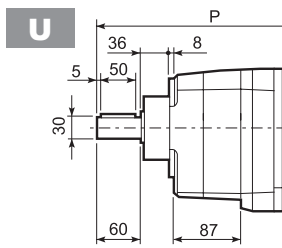
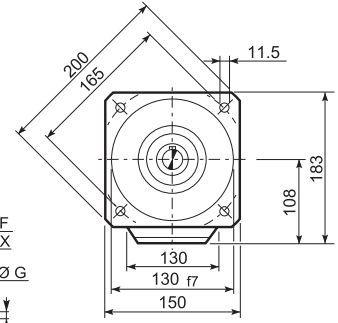
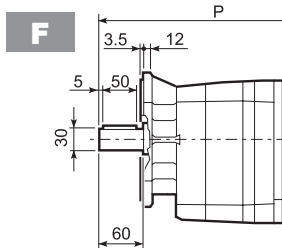
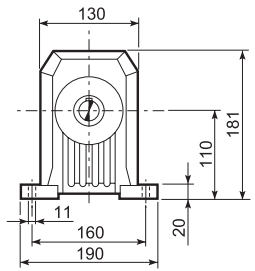
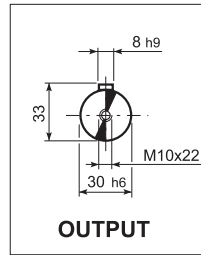
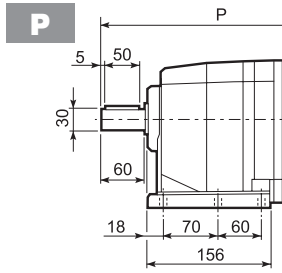
C 32 NU						
	D1	D2	D3	G	T	S
FA	4.331 -0.0014/-0.0028	5.118	6.299	0.354	0.118	0.394
FB	5.118 -0.0017/-0.0033	6.496	7.874	0.433	0.138	0.433
FC	7.087 -0.0017/-0.0033	8.465	9.843	0.551	0.157	0.512

Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

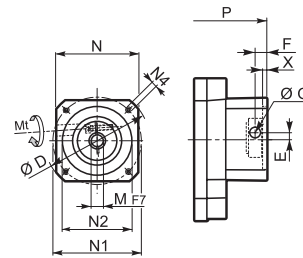
Motor	S	M	AC	H	HF	L	LD	AD	lbs	M...FD		M...FA			
										LF	lbs	R	AD		
C 32 2	S1	M1	5.433	7.047	6.969	18.221	8.091	4.252	31	20.623	35	4.055	5.315	4.882	4.252
C 32 2	S2	M2S	6.142	7.402	7.323	19.324	8.563	4.685	40	22.119	46	5.079	5.748	5.276	4.685
C 32 2	S2	ME2S	6.142	7.402	7.323	19.324	8.563	4.685	40	—	—	—	—	—	—
C 32 2	S3	ME3S	7.677	8.169	8.091	21.056	8.957	5.591	54	—	—	—	—	—	—
C 32 2	S3	ME3L	7.677	8.169	8.091	22.316	8.957	5.591	71	—	—	—	—	—	—
C 32 2	S4	ME4	10.157	9.409	9.331	26.568	—	7.598	146	—	—	—	—	—	—
C 32 2	S4	ME4LB	10.157	9.409	9.331	27.946	—	7.598	163	—	—	—	—	—	—
C 32 3	S05	M05	4.764	6.713	6.634	19.344	—	3.740	29	21.942	33	3.780	4.803	4.567	3.740
C 32 3	S1	M1	5.433	7.047	6.969	20.485	—	4.252	33	22.887	37	4.055	5.315	4.882	4.252
C 32 3	S2	ME2S	6.142	7.402	7.323	21.588	—	4.685	40	—	—	—	—	—	—
C 32 3	S3	ME3S	7.677	8.169	8.091	23.320	—	5.591	56	—	—	—	—	—	—
C 32 3	S3	ME3L	7.677	8.169	8.091	24.580	—	5.591	73	—	—	—	—	—	—



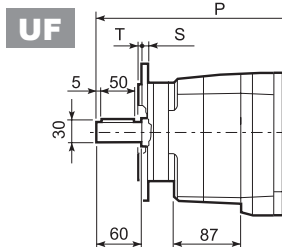
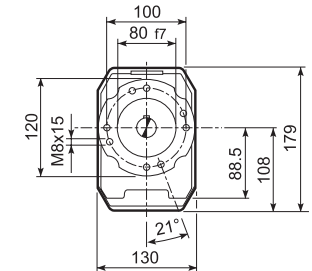
# C 32...SK / SC



SK...

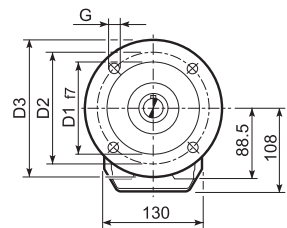


SC...



C 32_U						
	D1	D2	D3	G	T	S
FA	110	130	160	9	3	10
FB	130	165	200	11	3.5	11
FC	180	215	250	14	4	13

Dimensões em mm

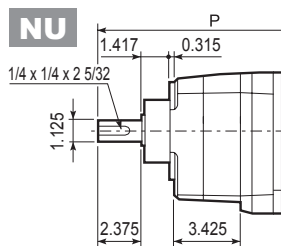
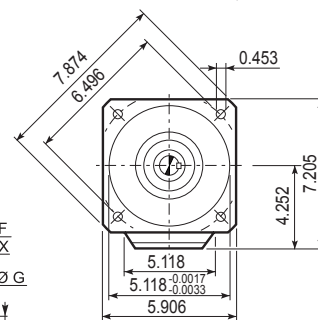
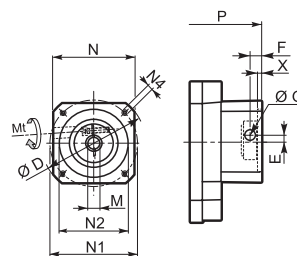
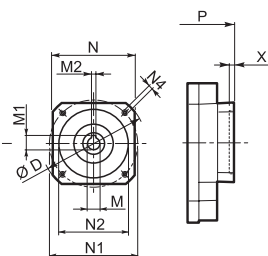
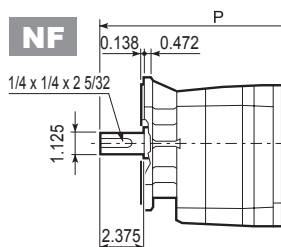
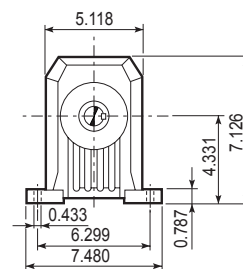
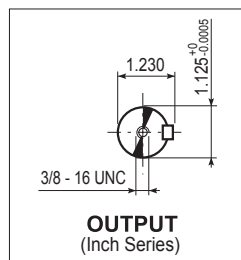
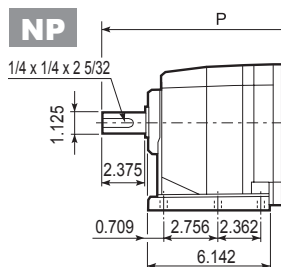


		D	M	M1	M2	N	N1	N2	N4	X	P		Kg
											2x	3x	
C 32 2/3	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	279	336.5	8/9
C 32 2/3	SK60B	102	14	16.3	5	82	75	60	M5x10	4	286	343.5	9/10
C 32 2/3	SK80A	115	14	16.3	5	90	100	80	M6x12	4	286	343.5	9/10
C 32 2/3	SK80C	120	19	21.8	6	96	100	80	M6x12	4	327	384.5	10/11
C 32 2/3	SK95A	130	14	16.3	5	102	115	95	M8x12	4	327	384.5	10/11
C 32 2/3	SK95B	130	19	21.8	6	102	115	95	M8x12	4	327	384.5	10/11
C 32 2/3	SK95C	130	24	27.3	8	102	115	95	M8x12	4	327	384.5	10/11
C 32 2/3	SK110A	150	19	21.8	6	120	130	110	M8x12	5	327	384.5	10/11
C 32 2/3	SK110B	150	24	27.3	8	120	130	110	M8x12	5	327	384.5	10/11
C 32 2	SK130A	188	24	27.3	8	142	165	130	M10x20	5	327	—	11

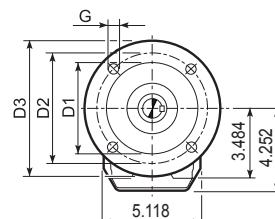
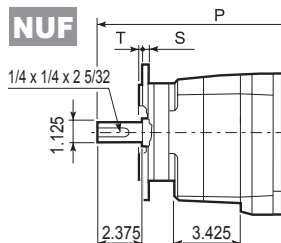
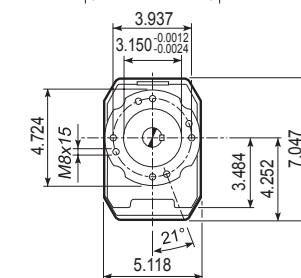
		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		Kg	
													2x	3x		
C 32 2/3	SC60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	306	363.5	9/10
C 32 2/3	SC60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	306	363.5	10/11
C 32 2/3	SC80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	306	363.5	10/11
C 32 2/3	SC80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	350.5	408	11/12
C 32 2/3	SC95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	350.5	408	11/12
C 32 2/3	SC95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	350.5	408	11/12
C 32 2/3	SC95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	350.5	408	11/12
C 32 2/3	SC 110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	350.5	408	12/13
C 32 2/3	SC 110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	350.5	408	12/13
C 32 2	SC 130A	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	350.5	—	13



# C 32...SK / SC



	C 32 NU						
	D1	D2	D3	G	T	S	
FA	4.331	5.118	6.299	0.354	0.118	0.394	
FB	5.118	6.496	7.874	0.433	0.138	0.433	
FC	7.087	8.465	9.843	0.551	0.157	0.512	



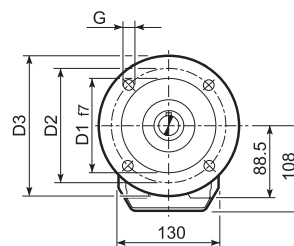
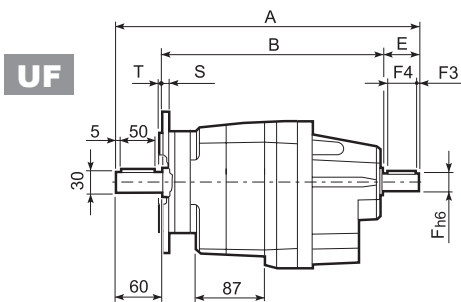
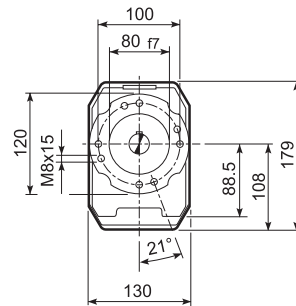
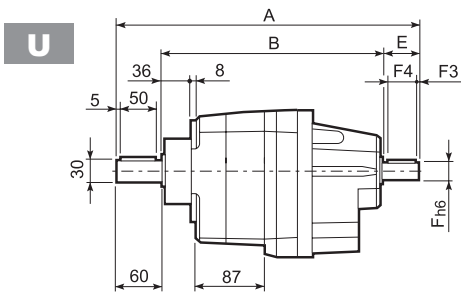
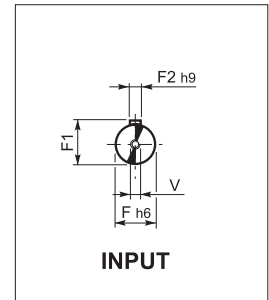
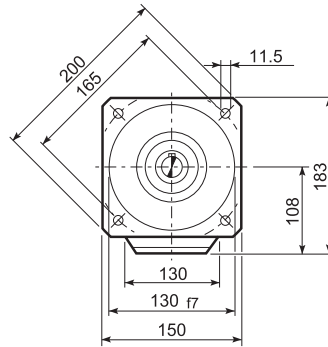
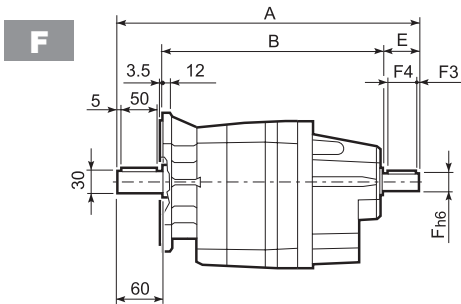
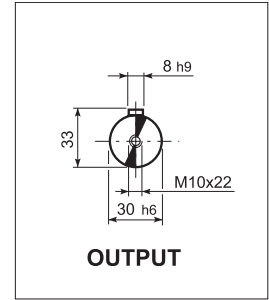
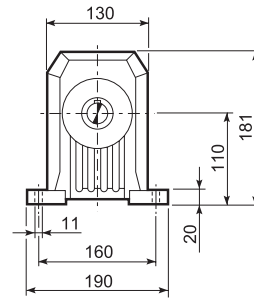
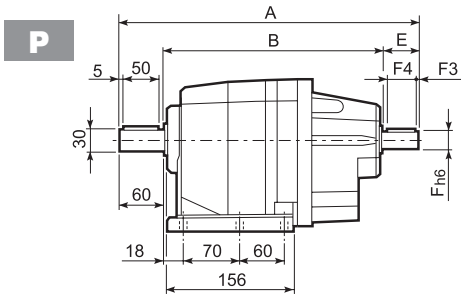
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		D	M	M1	M2	N	N1	N2	N4	X	2x	3x	P	lbs
C 32 2/3	SK60A	4.016	0.433	0.504	0.157	3.228	2.953	2.362	M5x10	0.138	11.309	13.573	18/20	
C 32 2/3	SK60B	4.016	0.551	0.642	0.197	3.228	2.953	2.362	M5x10	0.157	11.585	13.849	20/22	
C 32 2/3	SK80A	4.528	0.551	0.642	0.197	3.543	3.937	3.150	M6x12	0.157	11.585	13.849	20/22	
C 32 2/3	SK80C	4.724	0.748	0.858	0.236	3.780	3.937	3.150	M6x12	0.157	13.199	15.463	22/24	
C 32 2/3	SK95A	5.118	0.551	0.642	0.197	4.016	4.528	3.740	M8x12	0.157	13.199	15.463	22/24	
C 32 2/3	SK95B	5.118	0.748	0.858	0.236	4.016	4.528	3.740	M8x12	0.157	13.199	15.463	22/24	
C 32 2/3	SK95C	5.118	0.945	1.075	0.315	4.016	4.528	3.740	M8x12	0.157	13.199	15.463	22/24	
C 32 2/3	SK110A	5.906	0.748	0.858	0.236	4.724	5.118	4.331	M8x12	0.197	13.199	15.463	22/24	
C 32 2/3	SK110B	5.906	0.945	1.075	0.315	4.724	5.118	4.331	M8x12	0.197	13.199	15.463	22/24	
C 32 2	SK130A	7.402	0.945	1.075	0.315	5.591	6.496	5.118	M10x20	0.197	13.199	—	24	

		Mt [lb-in]	D	E	F	G	M	N	N1	N2	N4	X	2x	3x	P	lbs
C 32 2/3	SC60A	M6 133	4.016	0.276	0.492	0.492	0.433	3.228	2.953	2.362	M5x10	0.157	12.372	14.636	20/22	
C 32 2/3	SC60B	M6 133	4.016	0.276	0.492	0.492	0.551	3.228	2.953	2.362	M5x10	0.157	12.372	14.636	22/24	
C 32 2/3	SC80A	M6 133	4.528	0.236	0.492	0.492	0.551	3.543	3.937	3.150	M6x12	0.157	12.372	14.636	22/24	
C 32 2/3	SC80C	M6 133	4.724	0.610	0.571	0.699	0.748	3.780	3.937	3.150	M6x12	0.157	14.124	16.388	24/26	
C 32 2/3	SC95A	M6 133	5.118	0.650	0.591	0.699	0.551	4.016	4.528	3.740	M8x16	0.157	14.124	16.388	24/26	
C 32 2/3	SC95B	M6 133	5.118	0.650	0.591	0.699	0.748	4.016	4.528	3.740	M8x16	0.157	14.124	16.388	24/26	
C 32 2/3	SC95C	M6 133	5.118	0.650	0.591	0.699	0.945	4.016	4.528	3.740	M8x16	0.157	14.124	16.388	24/26	
C 32 2/3	SC 110A	M6 133	5.906	0.650	0.630	0.699	0.748	4.724	5.118	4.331	M8x16	0.197	14.124	16.388	26/29	
C 32 2/3	SC 110B	M6 133	5.906	0.650	0.630	0.699	0.945	4.724	5.118	4.331	M8x16	0.197	14.124	16.388	26/29	
C 32 2	SC 130A	M6 133	7.402	0.748	0.630	0.699	0.945	5.591	6.496	5.118	M10x20	0.197	14.124	—	29	



## C 32...HS



C 32_U						
	D1	D2	D3	G	T	S
FA	110	130	160	9	3	10
FB	130	165	200	11	3.5	11
FC	180	215	250	14	4	13

Dimensões em mm

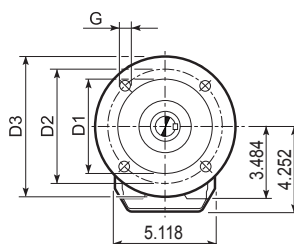
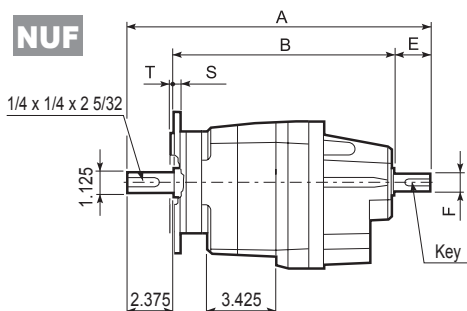
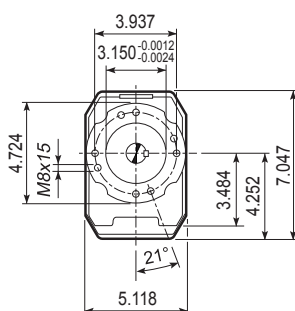
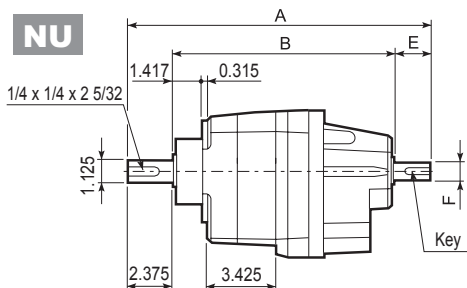
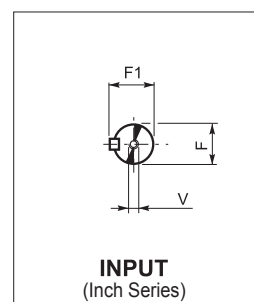
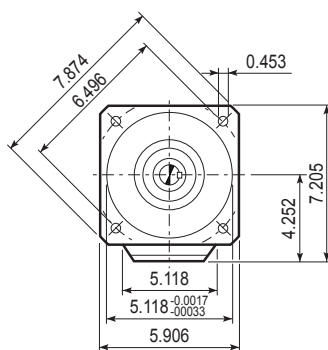
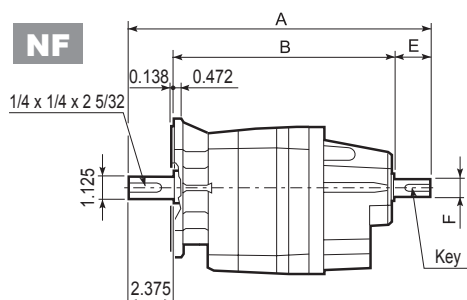
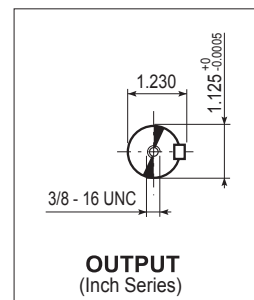
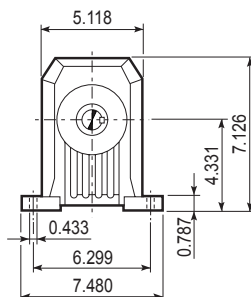
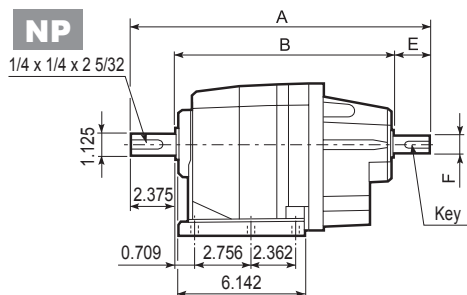
		A	B	E	F	F1	F2	F3	F4	V	Kg
C 32 2	HS	357.5	257.5	40	19	21.5	6	2.5	35	M6x16	11.1
C 32 3		372	272	40	16	18	5	2.5	35	M6x16	10.6

Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS





## C 32...NHS



C 32_NU						
	D1	D2	D3	G	T	S
<b>FA</b>	4.331 <sup>-0.0014</sup> / <sub>-0.0028</sub>	5.118	6.299	0.354	0.118	0.394
<b>FB</b>	5.118 <sup>-0.0017</sup> / <sub>-0.0033</sub>	6.496	7.874	0.433	0.138	0.433
<b>FC</b>	7.087 <sup>-0.0017</sup> / <sub>-0.0033</sub>	8.465	9.843	0.551	0.157	0.512

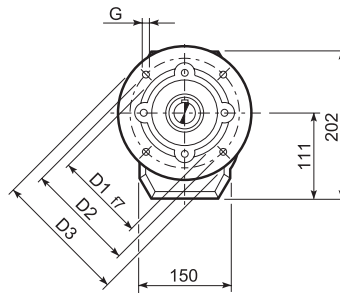
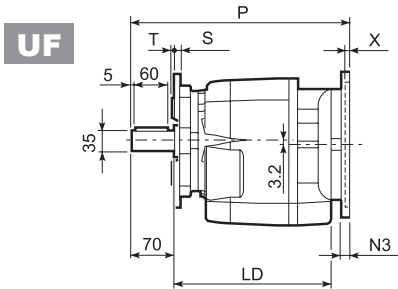
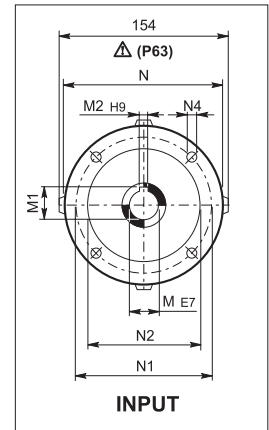
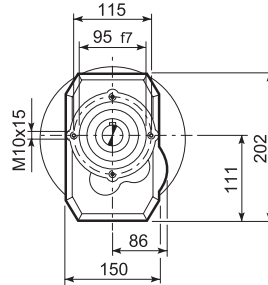
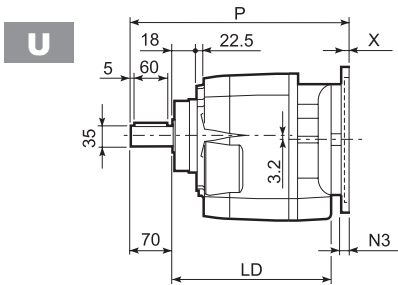
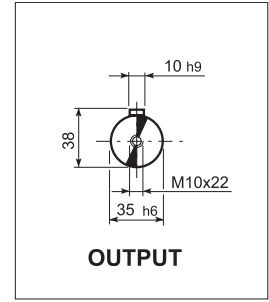
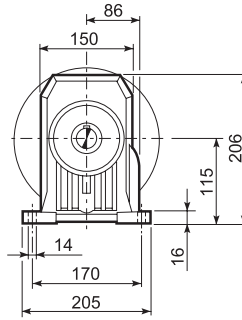
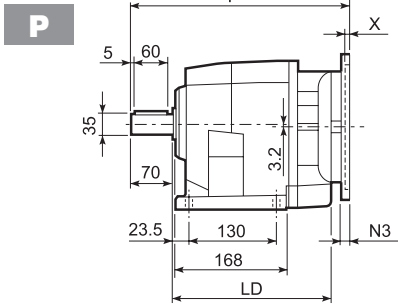
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		A	B	E	F	F1	V	Key	lbs
	NHS	14.088	10.138	1.575	0.750 <sup>+0</sup> / <sub>-0.0005</sub>	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	24
		14.658	10.709	1.575	0.625 <sup>+0</sup> / <sub>-0.0004</sub>	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	23

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS



## C 36...P(IEC)



C 36 U						
	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	14

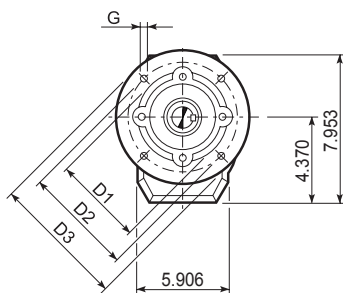
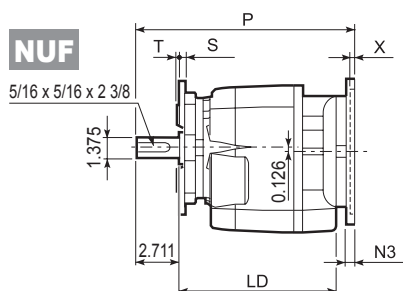
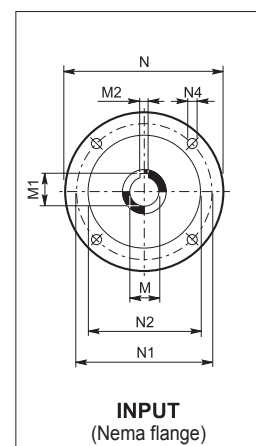
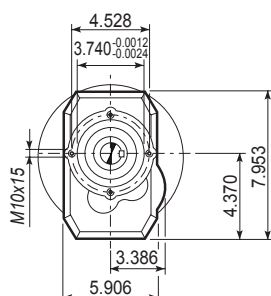
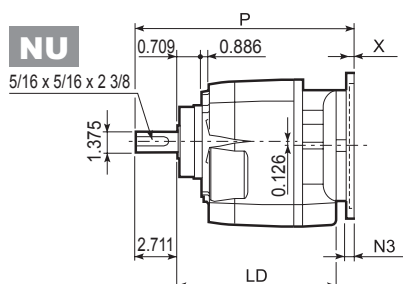
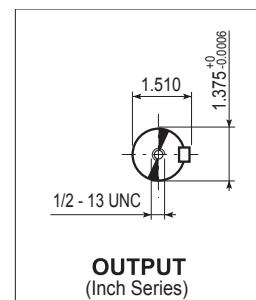
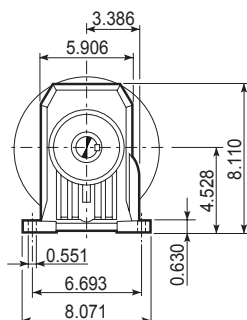
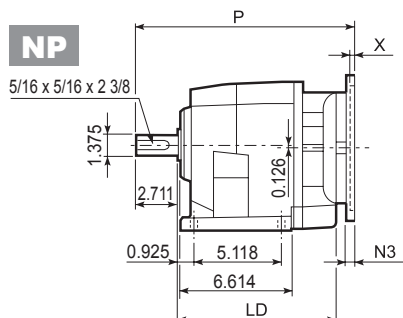
Dimensões em mm

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
C 36 2/3	P63	226	11	12.8	4	140	115	95	—	M8x19	4	326	17
C 36 2/3	P71	226	14	16.3	5	160	130	110	—	M8x16	4.5	326	17
C 36 2/3	P80	236	19	21.8	6	200	165	130	—	M10x12	4	345.5	18
C 36 2/3	P90	236	24	27.3	8	200	165	130	—	M10x12	4	345.5	18
C 36 2/3	P100	236	28	31.3	8	250	215	180	—	M12x16	4.5	355.5	22
C 36 2/3	P112	236	28	31.3	8	250	215	180	—	M12x16	4.5	355.5	22
C 36 2/3	P132	—	38	41.3	10	300	265	230	16	14	5	392.5	25
C 36 4	P63	—	11	12.8	4	140	115	95	—	M8x19	4	383.5	20
C 36 4	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	383.5	20
C 36 4	P80	—	19	21.8	6	200	165	130	—	M10x12	4	403	21
C 36 4	P90	—	24	27.3	8	200	165	130	—	M10x12	4	403	21
C 36 4	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	413	25
C 36 4	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	413	25

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA



## C 36...N(NEMA Input)



C 36 NU						
	D1	D2	D3	G	T	S
FA	5.118 <sup>+0.0017</sup> / <sub>-0.0033</sub>	6.496	7.874	0.433	0.138	0.433
FB	7.087 <sup>+0.0017</sup> / <sub>-0.0033</sub>	8.465	9.843	0.551	0.157	0.551

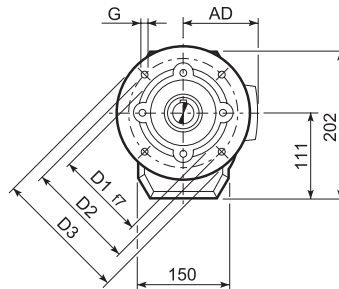
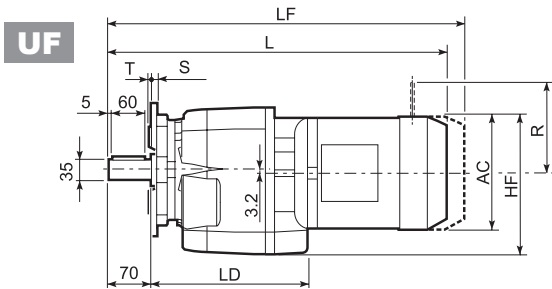
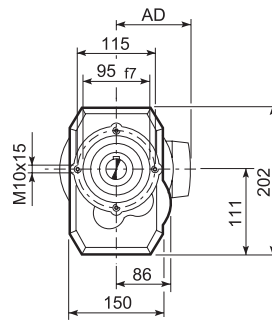
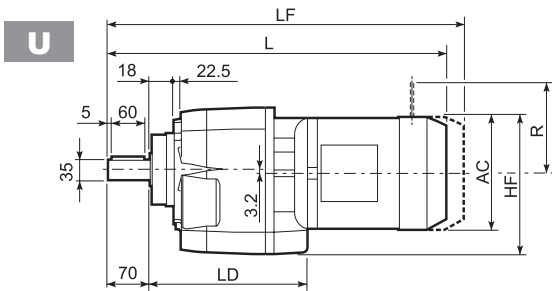
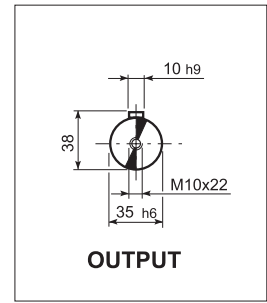
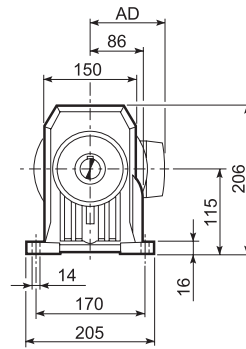
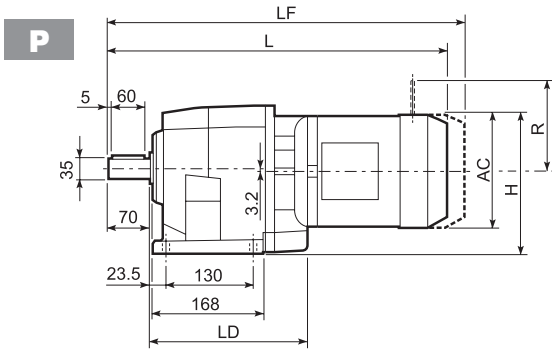
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
C 36 2/3	N56C	8.898	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	13.577	37
C 36 2/3	N140TC	8.898	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	13.577	40
C 36 2/3	N180TC	9.291	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.630	0.551	0.217	14.404	49
C 36 2/3	N210TC	—	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.531	0.531	0.217	15.585	55
C 36 4	N56C	—	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	15.841	44
C 36 4	N140TC	—	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	15.841	46
C 36 4	N180TC	—	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.630	0.551	0.217	16.667	55

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC



## C 36...M/ME



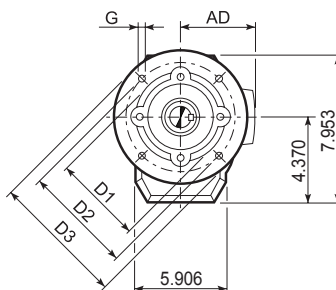
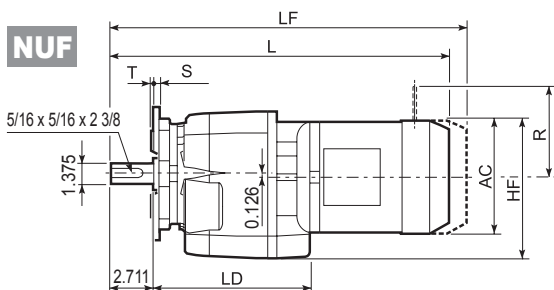
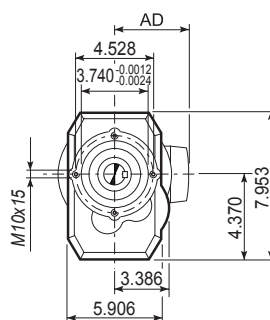
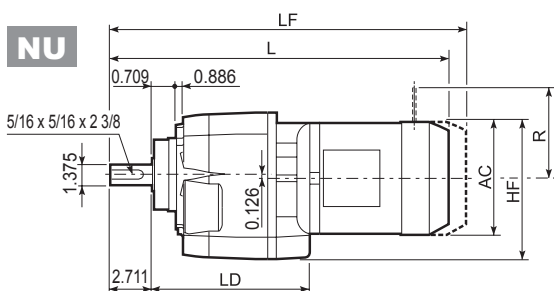
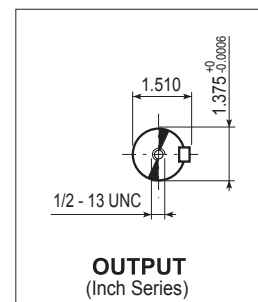
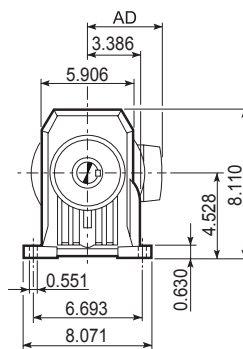
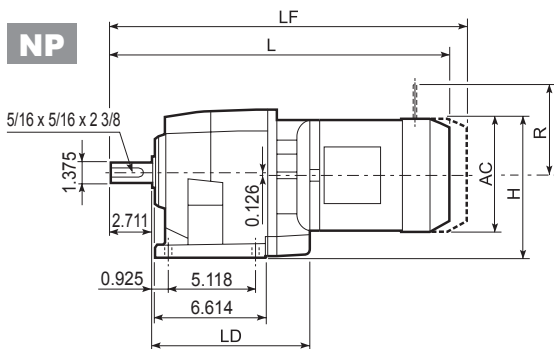
C 36_U						
	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	14

Dimensões em mm

Motor Type	S	M	AC	H	HF	L	LD	AD	Kg	M...FD M...FA		M...FD		M...FA	
										LF	Kg	R	AD	R	AD
C 36 2/3	S1	M1	138	184	177	481	214	108	20	542	21	103	135	124	108
C 36 2/3	S2	ME2S	156	193	186	509	226	119	23	—	—	—	—	—	—
C 36 2/3	S3	ME3S	195	212.5	205.5	553	236	142	29.5	—	—	—	—	—	—
C 36 2/3	S3	ME3L	195	212.5	205.5	585	236	142	37	—	—	—	—	—	—
C 36 2/3	S4	ME4	258	244	240	693.5	—	193	71	—	—	—	—	—	—
C 36 2/3	S4	ME4LB	258	244	240	728.5	—	193	79	—	—	—	—	—	—
C 36 4	S05	M05	121	175.5	168.5	509.5	—	95	19	575.5	20	96	122	116	95
C 36 4	S1	M1	138	184	177	538.5	—	108	21	599.5	22	103	135	124	108
C 36 4	S2	ME2S	156	193	186	566.5	—	119	24	—	—	—	—	—	—
C 36 4	S3	ME3S	195	212.5	205.5	610.5	—	142	30.5	—	—	—	—	—	—
C 36 4	S3	ME3L	195	212.5	205.5	642.5	—	142	38	—	—	—	—	—	—



## C 36...M/ME



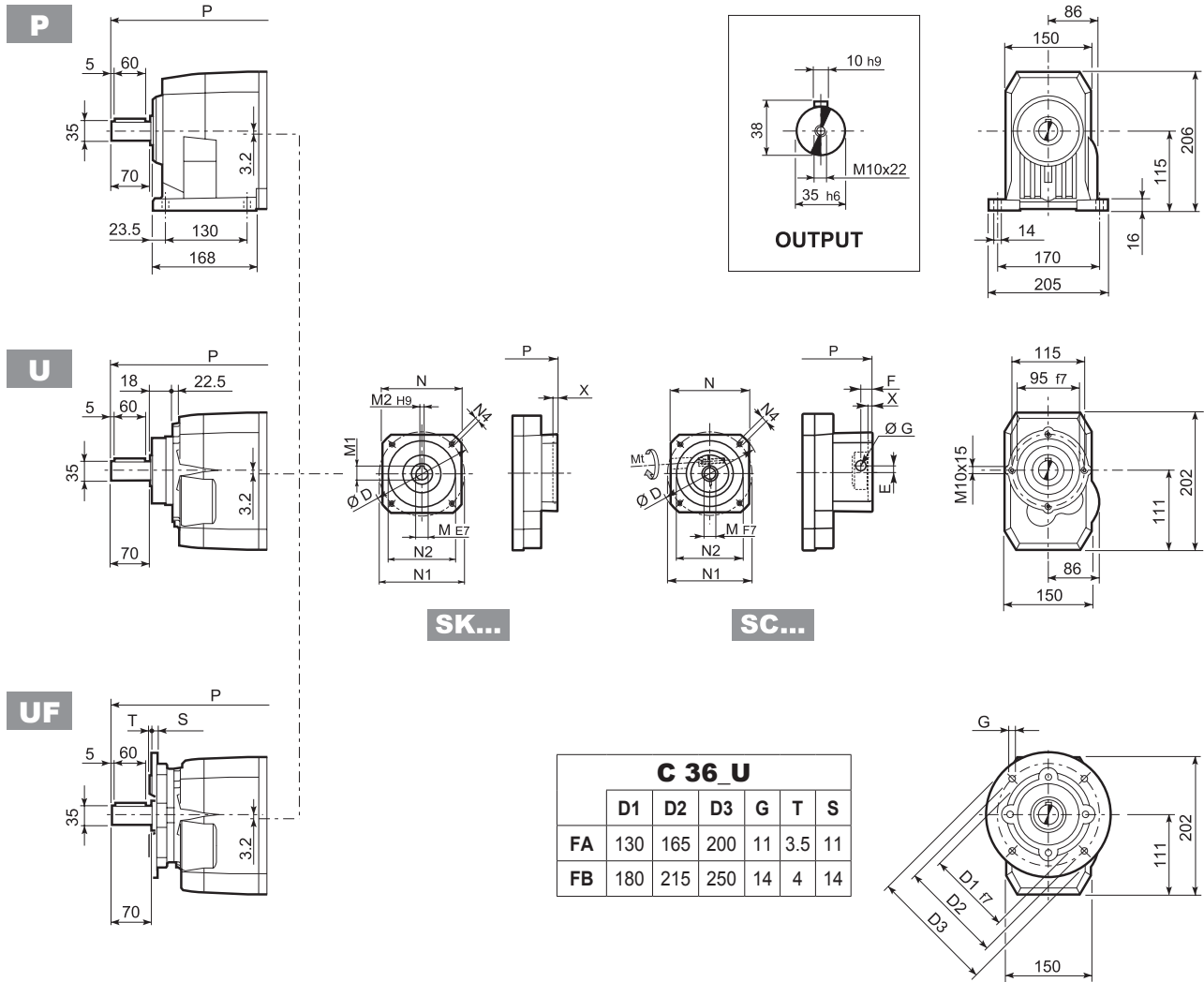
C 36_NU						
	D1	D2	D3	G	T	S
FA	5.118 $\begin{smallmatrix} -0.0017 \\ -0.0033 \end{smallmatrix}$	6.496	7.874	0.433	0.138	0.433
FB	7.087 $\begin{smallmatrix} -0.0017 \\ -0.0033 \end{smallmatrix}$	8.465	9.843	0.551	0.157	0.551

Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

Motor	S	M	AC	H	HF	L	LD	AD	lbs	M...FD M...FA		M...FD		M...FA	
										LF	lbs	R	AD	R	AD
C 36 2/3	S1	M1	5.433	7.244	6.969	18.892	8.425	4.252	44	21.293	46	4.055	5.315	4.882	4.252
C 36 2/3	S2	ME2S	6.142	7.598	7.323	19.994	8.898	4.685	51	—	—	—	—	—	—
C 36 2/3	S3	ME3S	7.677	8.366	8.091	21.726	9.291	5.591	65	—	—	—	—	—	—
C 36 2/3	S3	ME3L	7.677	8.366	8.091	22.986	9.291	5.591	82	—	—	—	—	—	—
C 36 2/3	S4	ME4	10.157	9.606	9.449	27.303	—	7.598	157	—	—	—	—	—	—
C 36 2/3	S4	ME4LB	10.157	9.606	9.449	28.636	—	7.598	174	—	—	—	—	—	—
C 36 4	S05	M05	4.764	6.909	6.634	20.014	—	3.740	42	22.612	44	3.780	4.803	4.567	3.740
C 36 4	S1	M1	5.433	7.244	6.969	21.156	—	4.252	46	23.557	49	4.055	5.315	4.882	4.252
C 36 4	S2	ME2S	6.142	7.598	7.323	22.258	—	4.685	53	—	—	—	—	—	—
C 36 4	S3	ME3S	7.677	8.366	8.091	23.990	—	5.591	67	—	—	—	—	—	—
C 36 4	S3	ME3L	7.677	8.366	8.091	25.250	—	5.591	84	—	—	—	—	—	—



## C 36...SK / SC



Dimensões em mm

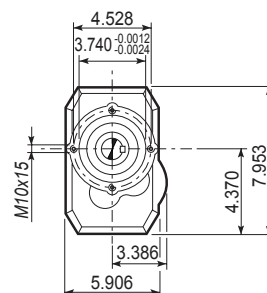
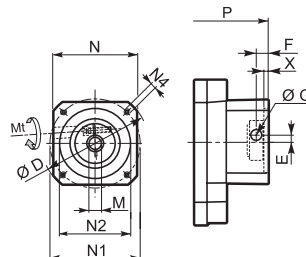
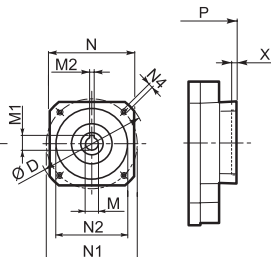
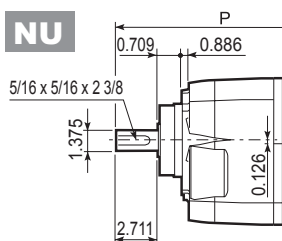
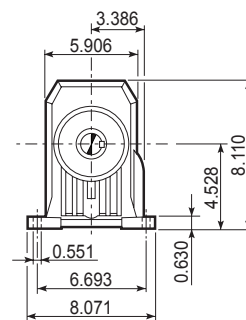
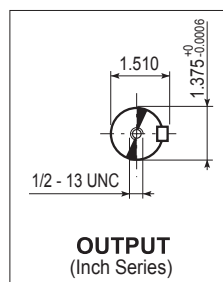
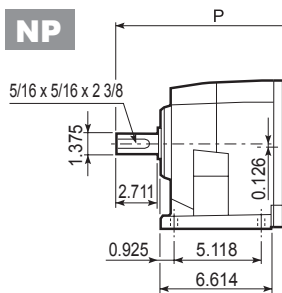
		D	M	M1	M2	N	N1	N2	N4	X	P		Kg
											2/3x	4x	
C 36 2/3/4	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	297.5	355	16/16/19
C 36 2/3/4	SK60B	102	14	16.3	5	82	75	60	M5x10	4	304.5	362	17/17/20
C 36 2/3/4	SK80A	115	14	16.3	5	90	100	80	M6x12	4	304.5	362	18/18/21
C 36 2/3/4	SK80C	120	19	21.8	6	96	100	80	M6x12	4	304.5	403	18/18/21
C 36 2/3/4	SK95A	130	14	16.3	5	102	115	95	M8x12	4	345.5	403	18/18/21
C 36 2/3/4	SK95B	130	19	21.8	6	102	115	95	M8x12	4	345.5	403	18/18/21
C 36 2/3/4	SK95C	130	24	27.3	8	102	115	95	M8x12	4	345.5	403	18/18/21
C 36 2/3/4	SK110A	150	19	21.8	6	120	130	110	M8x12	5	345.5	403	18/18/21
C 36 2/3/4	SK110B	150	24	27.3	8	120	130	110	M8x12	5	345.5	403	18/18/21
C 36 2/3	SK130A	188	24	27.3	8	142	165	130	M10x20	5	345.5	—	19/19

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		Kg
														2/3x	4x	
C 36 2/3/4	SC60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	324.5	382	17/17/20
C 36 2/3/4	SC60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	324.5	382	18/18/21
C 36 2/3/4	SC80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	324.5	426.5	18/18/21
C 36 2/3/4	SC80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	369	426.5	19/19/22
C 36 2/3/4	SC95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	369	426.5	19/19/22
C 36 2/3/4	SC95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	369	426.5	19/19/22
C 36 2/3/4	SC95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	369	426.5	19/19/22
C 36 2/3/4	SC110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	369	426.5	21/21/24
C 36 2/3/4	SC110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	369	426.5	21/21/24
C 36 2/3	SC130A	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	369	—	22/22



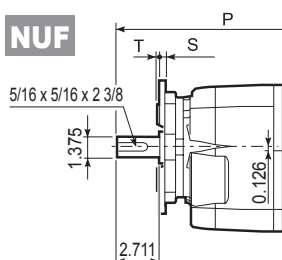


# C 36...SK / SC

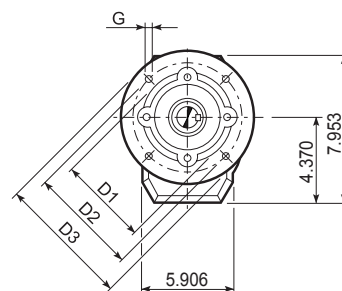


SK...

SC...



C 36 NU						
	D1	D2	D3	G	T	S
FA	5.118 <i>-0.0017</i> <i>-0.0033</i>	6.496	7.874	0.433	0.138	0.433
FB	7.087 <i>-0.0017</i> <i>-0.0033</i>	8.465	9.843	0.551	0.157	0.551



Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

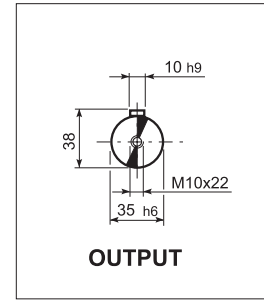
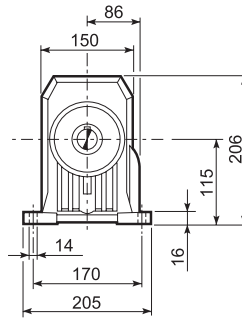
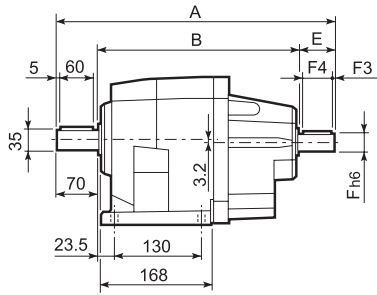
		D	M	M1	M2	N	N1	N2	N4	X	P		lbs
											2/3x	4x	
C 36 2/3/4	SK60A	4.016	0.433 <i>+0.0020</i> <i>+0.0013</i>	0.504	0.157 <i>+0.0012</i> <i>+0</i>	3.228	2.953	2.362	M5x10	0.138	11.667	13.931	35/35/42
C 36 2/3/4	SK60B	4.016	0.551 <i>+0.0020</i> <i>+0.0013</i>	0.642	0.197 <i>+0.0012</i> <i>+0</i>	3.228	2.953	2.362	M5x10	0.157	11.943	14.207	37/37/44
C 36 2/3/4	SK80A	4.528	0.551 <i>+0.0020</i> <i>+0.0013</i>	0.642	0.197 <i>+0.0012</i> <i>+0</i>	3.543	3.937	3.150	M6x12	0.157	11.943	14.207	40/40/46
C 36 2/3/4	SK80C	4.724	0.748 <i>+0.0024</i> <i>+0.0016</i>	0.858	0.236 <i>+0.0012</i> <i>+0</i>	3.780	3.937	3.150	M6x12	0.157	11.943	15.821	40/40/46
C 36 2/3/4	SK95A	5.118	0.551 <i>+0.0020</i> <i>+0.0013</i>	0.642	0.197 <i>+0.0012</i> <i>+0</i>	4.016	4.528	3.740	M8x12	0.157	13.557	15.821	40/40/46
C 36 2/3/4	SK95B	5.118	0.748 <i>+0.0024</i> <i>+0.0016</i>	0.858	0.236 <i>+0.0012</i> <i>+0</i>	4.016	4.528	3.740	M8x12	0.157	13.557	15.821	40/40/46
C 36 2/3/4	SK95C	5.118	0.945 <i>+0.0024</i> <i>+0.0016</i>	1.075	0.315 <i>+0.0014</i> <i>+0</i>	4.016	4.528	3.740	M8x12	0.157	13.557	15.821	40/40/46
C 36 2/3/4	SK110A	5.906	0.748 <i>+0.0024</i> <i>+0.0016</i>	0.858	0.236 <i>+0.0012</i> <i>+0</i>	4.724	5.118	4.331	M8x12	0.197	13.557	15.821	40/40/46
C 36 2/3/4	SK110B	5.906	0.945 <i>+0.0024</i> <i>+0.0016</i>	1.075	0.315 <i>+0.0014</i> <i>+0</i>	4.724	5.118	4.331	M8x12	0.197	13.557	15.821	40/40/46
C 36 2/3	SK130A	7.402	0.945 <i>+0.0024</i> <i>+0.0016</i>	1.075	0.315 <i>+0.0014</i> <i>+0</i>	5.591	6.496	5.118	M10x20	0.197	13.557	—	42/42

		Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P		lbs
													2/3x	4x	
C 36 2/3/4	SC60A	M6 133	4.016	0.276	0.492	0.492	0.433 <i>+0.0013</i> <i>+0.0006</i>	3.228	2.953	2.362	M5x10	0.157	12.730	14.994	37/37/44
C 36 2/3/4	SC60B	M6 133	4.016	0.276	0.492	0.492	0.551 <i>+0.0013</i> <i>+0.0006</i>	3.228	2.953	2.362	M5x10	0.157	12.730	14.994	40/40/46
C 36 2/3/4	SC80A	M6 133	4.528	0.236	0.492	0.492	0.551 <i>+0.0013</i> <i>+0.0006</i>	3.543	3.937	3.150	M6x12	0.157	12.730	16.746	40/40/46
C 36 2/3/4	SC80C	M6 133	4.724	0.610	0.571	0.699	0.748 <i>+0.0016</i> <i>+0.0008</i>	3.780	3.937	3.150	M6x12	0.157	14.482	16.746	42/42/49
C 36 2/3/4	SC95A	M6 133	5.118	0.650	0.591	0.699	0.551 <i>+0.0013</i> <i>+0.0006</i>	4.016	4.528	3.740	M8x16	0.157	14.482	16.746	42/42/49
C 36 2/3/4	SC95B	M6 133	5.118	0.650	0.591	0.699	0.748 <i>+0.0016</i> <i>+0.0008</i>	4.016	4.528	3.740	M8x16	0.157	14.482	16.746	42/42/49
C 36 2/3/4	SC95C	M6 133	5.118	0.650	0.591	0.699	0.945 <i>+0.0016</i> <i>+0.0008</i>	4.016	4.528	3.740	M8x16	0.157	14.482	16.746	42/42/49
C 36 2/3/4	SC110A	M6 133	5.906	0.650	0.630	0.699	0.748 <i>+0.0016</i> <i>+0.0008</i>	4.724	5.118	4.331	M8x16	0.197	14.482	16.746	46/46/53
C 36 2/3/4	SC110B	M6 133	5.906	0.650	0.630	0.699	0.945 <i>+0.0016</i> <i>+0.0008</i>	4.724	5.118	4.331	M8x16	0.197	14.482	16.746	46/46/53
C 36 2/3	SC130A	M6 133	7.402	0.748	0.630	0.699	0.945 <i>+0.0016</i> <i>+0.0008</i>	5.591	6.496	5.118	M10x20	0.197	14.482	—	49/49

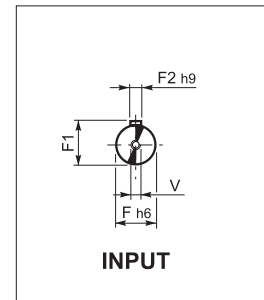
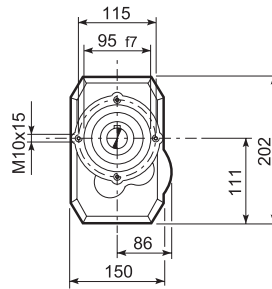
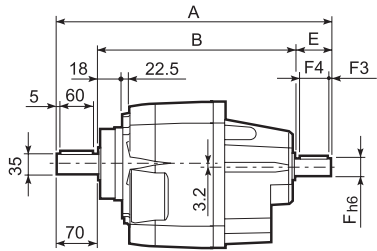


## C 36...HS

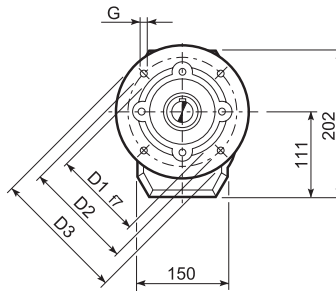
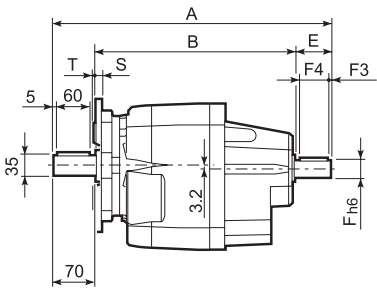
**P**



**U**



**UF**



C 36 U						
	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	14

Dimensões em mm

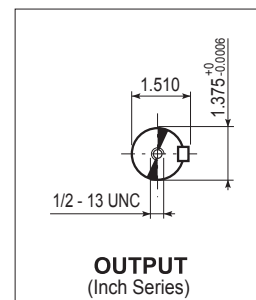
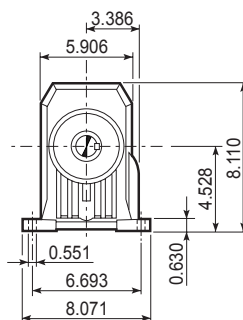
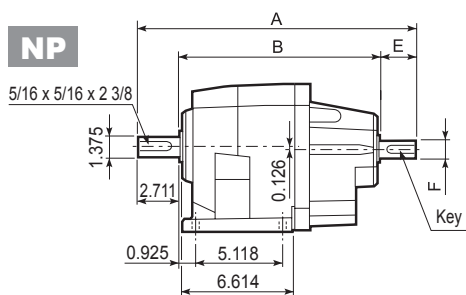
		A	B	E	F	F1	F2	F3	F4	V	Kg
C 36 2	HS	415.5	295.5	50	24	27	8	2.5	45	M8x19	25.5
C 36 3		415.5	295.5	50	24	27	8	2.5	45	M8x19	25.5
C 36 4		390.5	280.5	40	16	18	5	2.5	36	M6x16	26.5

Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

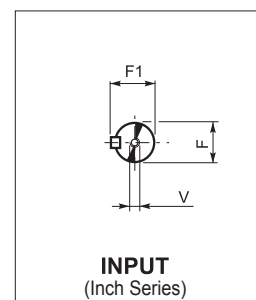
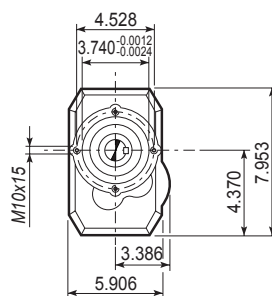
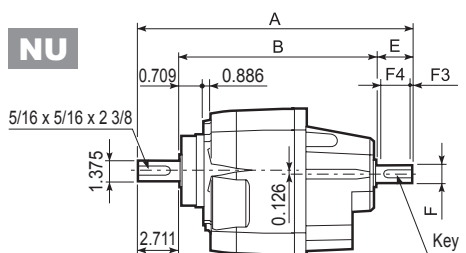


# C 36...NHS

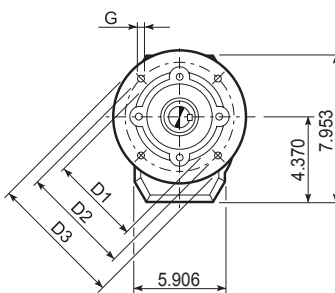
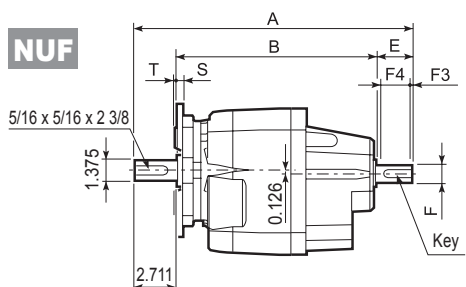
**NP**



**NU**



**NUF**



C 36_NU						
	D1	D2	D3	G	T	S
FA	5.118 <sup>-0.0017</sup> / <sub>-0.0033</sub>	6.496	7.874	0.433	0.138	0.433
FB	7.087 <sup>-0.0017</sup> / <sub>-0.0033</sub>	8.465	9.843	0.551	0.157	0.551

Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

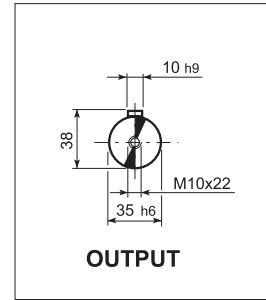
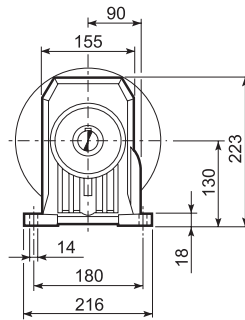
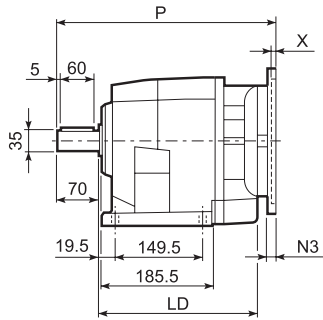
		A	B	E	F	F1	V	Key	lbs
C 36 2	NHS	16.313	11.634	1.969	1.000 <sup>+0</sup> / <sub>-0.0005</sub>	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	56
C 36 3		16.313	11.634	1.969	1.000 <sup>+0</sup> / <sub>-0.0005</sub>	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	56
C 36 4		15.329	11.043	1.575	0.625 <sup>+0</sup> / <sub>-0.0004</sub>	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	58

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

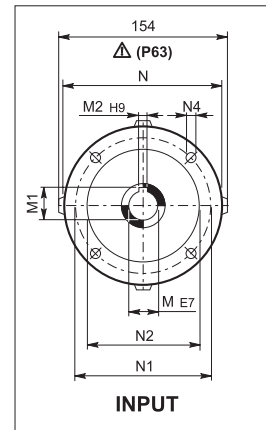
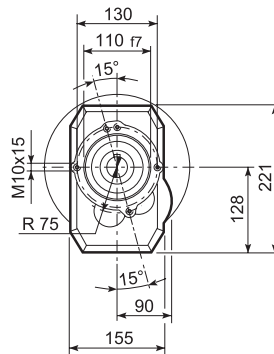
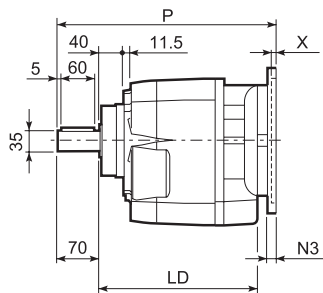


## C 41...P(IEC)

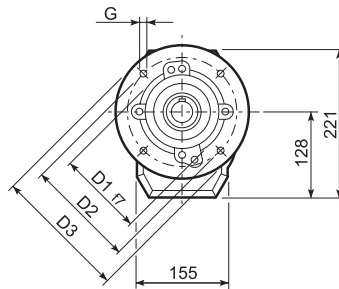
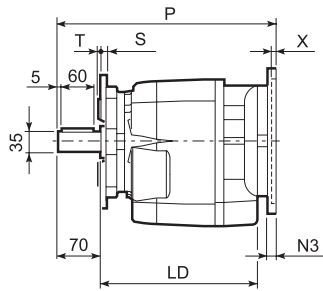
**P**



**U**



**UF**



### C 41\_U

	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	13

Dimensões em mm

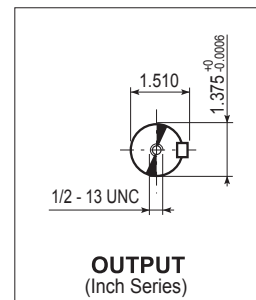
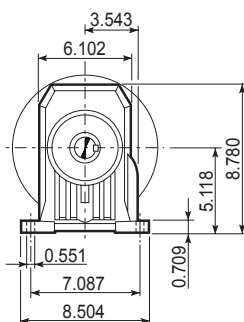
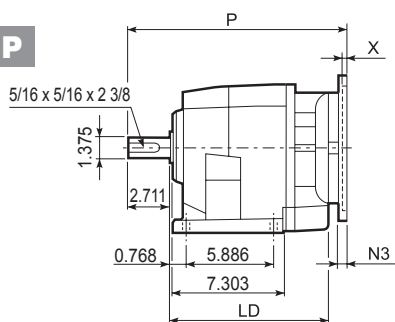
		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	
C 41 2/3	P63	235.5	11	12.8	4	140	115	95	—	M8x19	4	336.5	27
C 41 2/3	P71	235.5	14	16.3	5	160	130	110	—	M8x16	4.5	336.5	28
C 41 2/3	P80	251.5	19	21.8	6	200	165	130	—	M10x12	4	356	29
C 41 2/3	P90	251.5	24	27.3	8	200	165	130	—	M10x12	4	356	29
C 41 2/3	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	366	33
C 41 2/3	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	366	33
C 41 2/3	P132	—	38	41.3	10	300	265	230	16	14	5	402.5	35
C 41 4	P63	—	11	12.8	4	140	115	95	—	M8x19	4	395	30
C 41 4	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	395	31
C 41 4	P80	—	19	21.8	6	200	165	130	—	M10x12	4	414.5	32
C 41 4	P90	—	24	27.3	8	200	165	130	—	M10x12	4	414.5	32
C 41 4	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	424.5	36
C 41 4	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	424.5	36

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

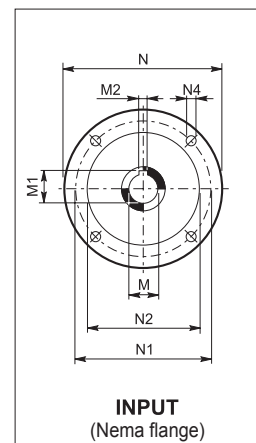
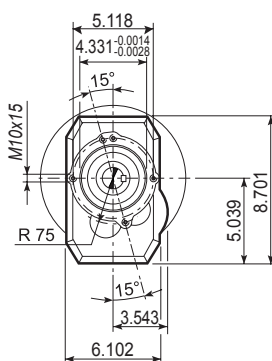
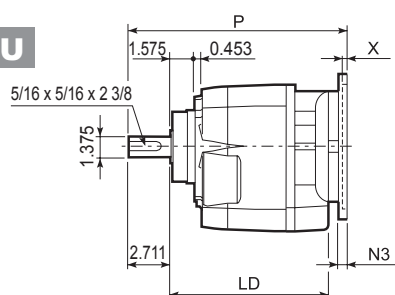


## C 41...N(NEMA Input)

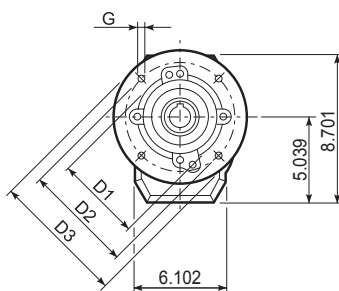
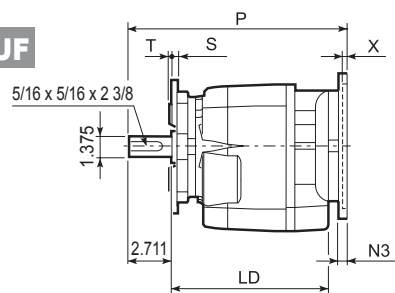
**NP**



**NU**



**NUF**



C 41 NU						
	D1	D2	D3	G	T	S
FA	5.118 $\begin{smallmatrix} -0.0017 \\ -0.0033 \end{smallmatrix}$	6.496	7.874	0.433	0.138	0.433
FB	7.087 $\begin{smallmatrix} -0.0017 \\ -0.0033 \end{smallmatrix}$	8.465	9.843	0.551	0.157	0.512

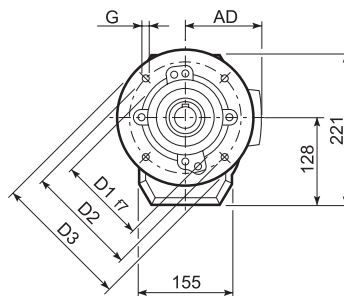
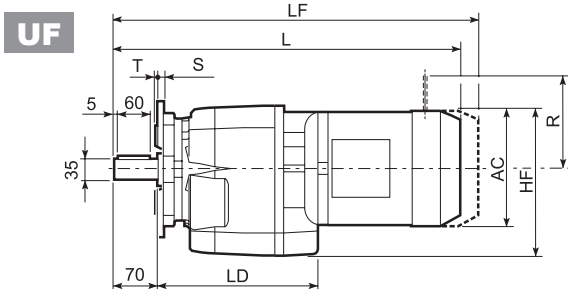
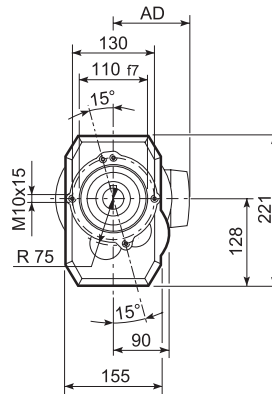
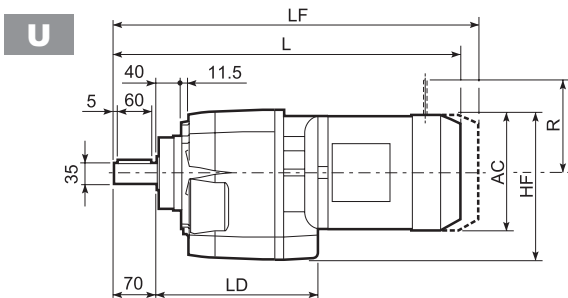
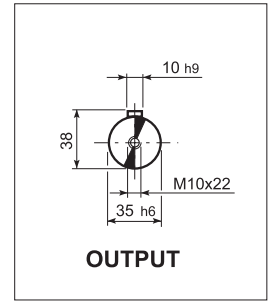
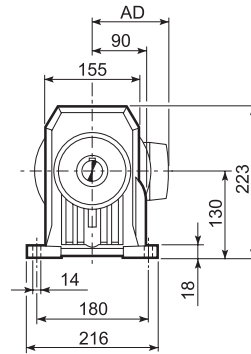
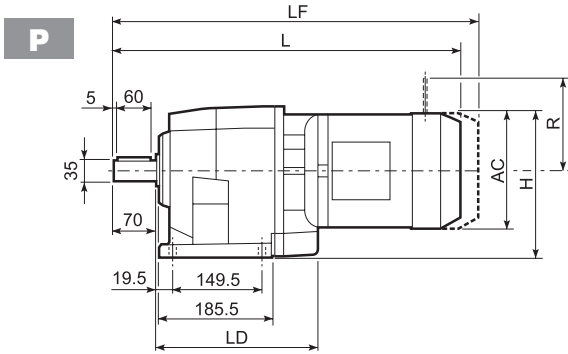
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	
C 41 2/3	N56C	9.272	0.625 $\begin{smallmatrix} +0.0020 \\ +0.0013 \end{smallmatrix}$	0.710	0.188 $\begin{smallmatrix} +0.0012 \\ +0 \end{smallmatrix}$	6.496	5.875	4.500	0.472	0.394	0.197	13.990	62
C 41 2/3	N140TC	9.272	0.875 $\begin{smallmatrix} +0.0024 \\ +0.0016 \end{smallmatrix}$	0.964	0.188 $\begin{smallmatrix} +0.0012 \\ +0 \end{smallmatrix}$	6.496	5.875	4.500	0.472	0.394	0.197	13.990	64
C 41 2/3	N180TC	9.902	1.125 $\begin{smallmatrix} +0.0024 \\ +0.0016 \end{smallmatrix}$	1.241	0.250 $\begin{smallmatrix} +0.0014 \\ +0 \end{smallmatrix}$	8.996	7.250	8.500	0.630	0.551	0.217	14.738	73
C 41 2/3	N210TC	—	1.375 $\begin{smallmatrix} +0.0030 \\ +0.0020 \end{smallmatrix}$	1.518	0.312 $\begin{smallmatrix} +0.0014 \\ +0 \end{smallmatrix}$	8.996	7.250	8.500	0.531	0.531	0.217	15.978	77
C 41 4	N56C	—	0.625 $\begin{smallmatrix} +0.0020 \\ +0.0013 \end{smallmatrix}$	0.710	0.188 $\begin{smallmatrix} +0.0012 \\ +0 \end{smallmatrix}$	6.496	5.875	4.500	0.472	0.394	0.197	16.293	68
C 41 4	N140TC	—	0.875 $\begin{smallmatrix} +0.0024 \\ +0.0016 \end{smallmatrix}$	0.964	0.188 $\begin{smallmatrix} +0.0012 \\ +0 \end{smallmatrix}$	6.496	5.875	4.500	0.472	0.394	0.197	16.293	71
C 41 4	N180TC	—	1.125 $\begin{smallmatrix} +0.0024 \\ +0.0016 \end{smallmatrix}$	1.241	0.250 $\begin{smallmatrix} +0.0014 \\ +0 \end{smallmatrix}$	8.996	7.250	8.500	0.630	0.551	0.217	17.120	79

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC



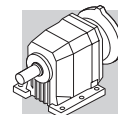
## C 41...M/ME



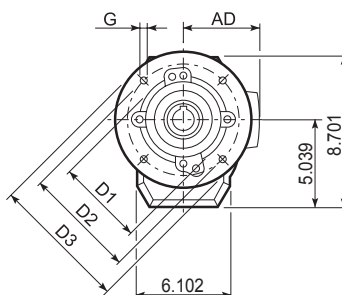
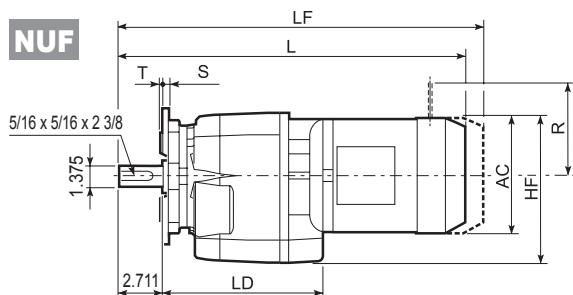
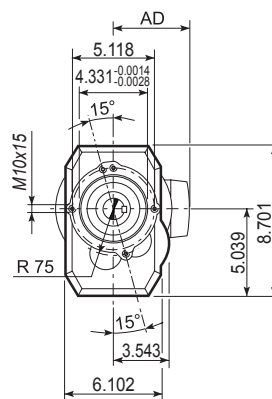
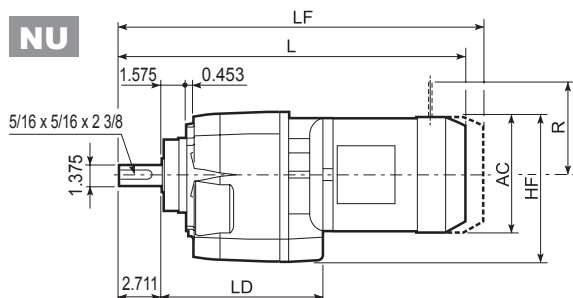
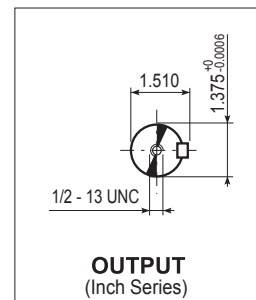
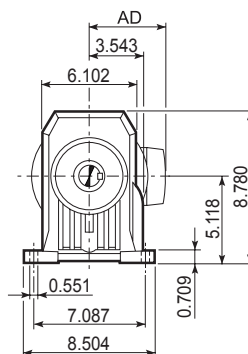
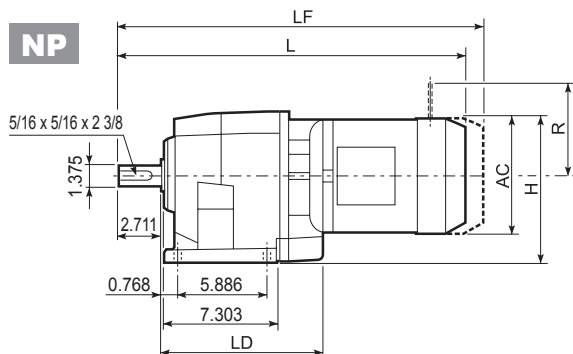
C 41_U						
	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	13

Dimensões em mm

Icon	S	ME	AC	H	HF	L	LD	AD	Kg	M...FD M...FA		M...FD		M...FA	
										LF	Kg	R	AD	R	AD
C 41 2/3	S1	M1	138	199	197	491.5	220	108	25	552.5	28	103	135	124	108
C 41 2/3	S2	ME2S	156	208	206	519.5	235.5	119	31	—	—	—	—	—	—
C 41 2/3	S3	ME3S	195	227.5	225.5	563.5	251.5	142	37.5	—	—	—	—	—	—
C 41 2/3	S3	ME3L	195	227.5	225.5	595.5	251.5	142	45	—	—	—	—	—	—
C 41 2/3	S4	ME4	258	259	257	703.5	—	193	71	—	—	—	—	—	—
C 41 2/3	S4	ME4LB	258	259	257	739	—	193	78	—	—	—	—	—	—
C 41 4	S05	M05	231	245.5	243.5	524	—	95	27	590	28	96	122	116	95
C 41 4	S1	M1	138	199	197	553	—	108	28	614	31	103	135	124	108
C 41 4	S2	ME2S	156	208	206	581	—	119	34	—	—	—	—	—	—
C 41 4	S3	ME3S	195	227.5	225.5	625	—	142	40.5	—	—	—	—	—	—
C 41 4	S3	ME3L	195	227.5	225.5	657	—	142	48	—	—	—	—	—	—



## C 41...M/ME



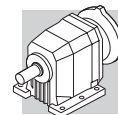
C 41 NU						
	D1	D2	D3	G	T	S
FA	5.118 $^{+0.0017}_{-0.0033}$	6.496	7.874	0.433	0.138	0.433
FB	7.087 $^{+0.0017}_{-0.0033}$	8.465	9.843	0.551	0.157	0.512

Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

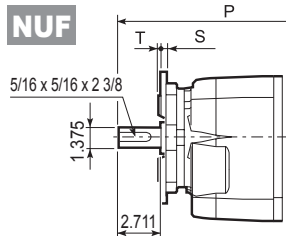
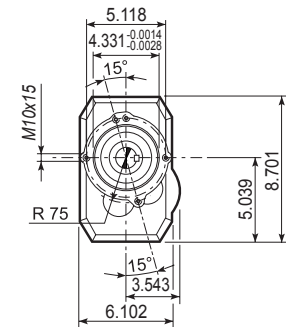
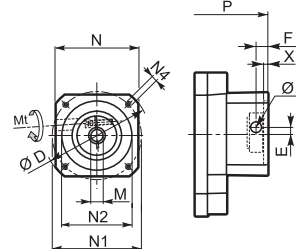
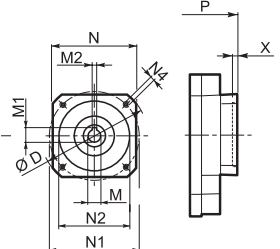
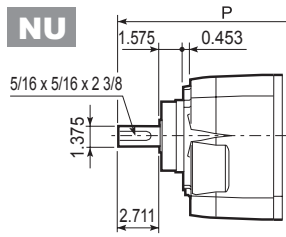
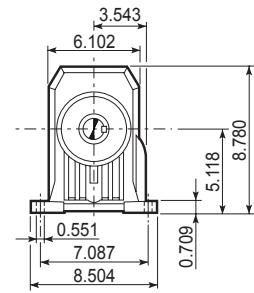
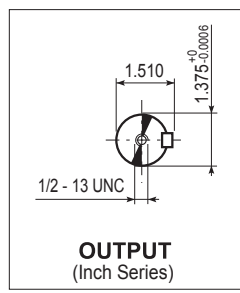
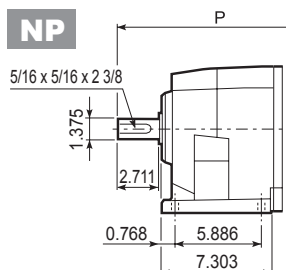
Motor	S	M	AC	H	HF	L	LD	AD	lbs	M...FD M...FA		M...FD		M...FA	
										LF	lbs	R	AD	R	AD
C 41 2/3	S1	M1	5.433	7.835	7.756	19.305	8.661	4.252	55	21.707	62	4.055	5.315	4.882	4.252
C 41 2/3	S2	ME2S	6.142	8.189	8.110	20.407	9.272	4.685	68	—	—	—	—	—	—
C 41 2/3	S3	ME3S	7.677	8.957	8.878	22.140	9.902	5.591	83	—	—	—	—	—	—
C 41 2/3	S3	ME3L	7.677	8.957	8.878	23.400	9.902	5.591	99	—	—	—	—	—	—
C 41 2/3	S4	ME4	10.157	10.197	10.118	27.652	—	7.598	157	—	—	—	—	—	—
C 41 2/3	S4	ME4LB	10.157	10.197	10.118	29.049	—	7.598	172	—	—	—	—	—	—
C 41 4	S05	M05	9.094	9.665	9.587	20.585	—	3.740	60	23.183	62	3.780	4.803	4.567	3.740
C 41 4	S1	M1	5.433	7.835	7.756	21.726	—	4.252	62	24.128	68	4.055	5.315	4.882	4.252
C 41 4	S2	ME2S	6.142	8.189	8.110	22.829	—	4.685	75	—	—	—	—	—	—
C 41 4	S3	ME3S	7.677	8.957	8.878	24.561	—	5.591	89	—	—	—	—	—	—
C 41 4	S3	ME3L	7.677	8.957	8.878	25.821	—	5.591	106	—	—	—	—	—	—



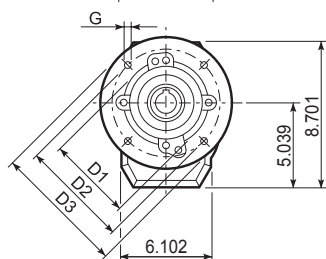




# C 41...SK / SC



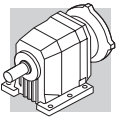
C 41 NU						
	D1	D2	D3	G	T	S
FA	5.118	<sup>-0.0017</sup> / <sub>-0.0033</sub>	6.496	7.874	0.433	0.138
FB	7.087	<sup>-0.0017</sup> / <sub>-0.0033</sub>	8.465	9.843	0.551	0.157



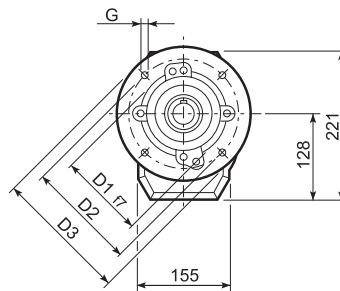
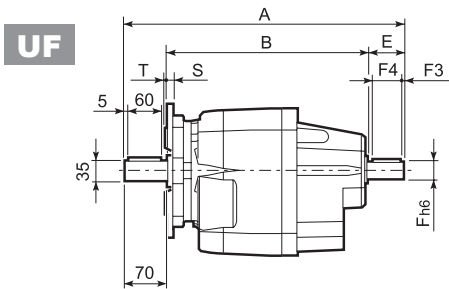
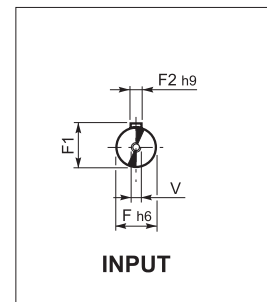
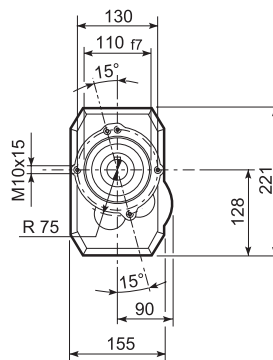
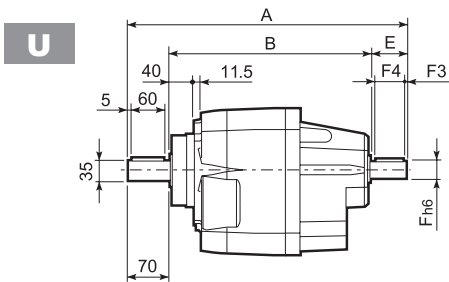
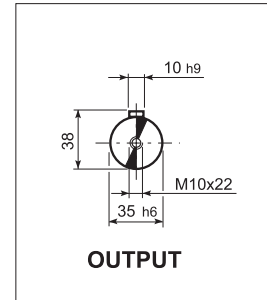
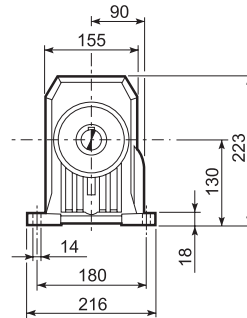
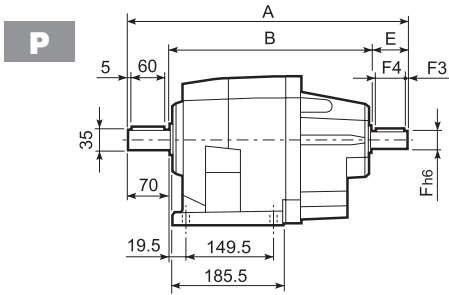
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		D	M	M1	M2	N	N1	N2	N4	X	2/3x	P	4x	lbs	
C41 4	SK60A	4.016	0.433	<sup>+0.0020</sup> / <sub>+0.0013</sub>	0.504	0.157	<sup>+0.0012</sup> / <sub>+0</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.138	—	14.522	68
C41 4	SK60B	4.016	0.551	<sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197	<sup>+0.0012</sup> / <sub>+0</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.157	—	14.797	71
C41 4	SK80A	4.528	0.551	<sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197	<sup>+0.0012</sup> / <sub>+0</sub>	3.543	3.937	3.150	<i>M6x12</i>	0.157	—	14.797	71
C41 2/3	SK80B	4.724	0.551	<sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197	<sup>+0.0012</sup> / <sub>+0</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	13.990	—	64/64
C41 2/3/4	SK80C	4.724	0.748	<sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236	<sup>+0.0012</sup> / <sub>+0</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	13.990	16.411	64/64/71
C41 2/3/4	SK95A	5.118	0.551	<sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197	<sup>+0.0012</sup> / <sub>+0</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	13.990	16.411	64/64/71
C41 2/3/4	SK95B	5.118	0.748	<sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236	<sup>+0.0012</sup> / <sub>+0</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	13.990	16.411	64/64/73
C41 2/3/4	SK95C	5.118	0.945	<sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315	<sup>+0.0014</sup> / <sub>+0</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	13.990	16.411	64/64/79
C41 2/3/4	SK110A	5.906	0.748	<sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236	<sup>+0.0012</sup> / <sub>+0</sub>	4.724	5.118	4.331	<i>M8x12</i>	0.197	13.990	16.411	64/64/79
C41 2/3/4	SK110B	5.906	0.945	<sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315	<sup>+0.0014</sup> / <sub>+0</sub>	4.724	5.118	4.331	<i>M8x12</i>	0.197	13.990	16.411	64/64/79
C41 2/3	SK130A	7.402	0.945	<sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315	<sup>+0.0014</sup> / <sub>+0</sub>	5.591	6.496	5.118	<i>M10x20</i>	0.197	13.990	—	68/68
C41 2/3	SK130B	7.441	1.260	<sup>+0.0030</sup> / <sub>+0.0020</sub>	1.390	0.394	<sup>+0.0014</sup> / <sub>+0</sub>	6.299	6.496	5.118	<i>M10x20</i>	0.197	15.821	—	73/73
C41 2/3	SK180A	9.449	1.260	<sup>+0.0030</sup> / <sub>+0.0020</sub>	1.390	0.394	<sup>+0.0014</sup> / <sub>+0</sub>	7.559	8.465	7.087	<i>M12x19</i>	0.197	15.821	—	73/73
C41 2/3	SK180B	9.449	1.496	<sup>+0.0030</sup> / <sub>+0.0020</sub>	1.626	0.394	<sup>+0.0014</sup> / <sub>+0</sub>	7.559	8.465	7.087	<i>M12x19</i>	0.197	15.821	—	84/84

		Mt [lb-in]	D	E	F	G	M	N	N1	N2	N4	X	2/3x	P	4x	lbs
C41 4	SC60A	M6 133	4.016	0.276	0.492	0.492	0.433	<sup>+0.0013</sup> / <sub>+0.0006</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.157	—	15.585	71
C41 4	SC60B	M6 133	4.016	0.276	0.492	0.492	0.551	<sup>+0.0013</sup> / <sub>+0.0006</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.157	—	15.585	73
C41 4	SC80A	M6 133	4.528	0.236	0.492	0.492	0.551	<sup>+0.0013</sup> / <sub>+0.0006</sub>	3.543	3.937	3.150	<i>M6x12</i>	0.157	—	15.585	73
C41 2/3	SC80B	M6 133	4.724	0.610	0.571	0.699	0.551	<sup>+0.0013</sup> / <sub>+0.0006</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	14.915	—	66/66
C41 2/3/4	SC80C	M6 133	4.724	0.610	0.571	0.699	0.748	<sup>+0.0016</sup> / <sub>+0.0008</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	14.915	17.337	66/66/73
C41 2/3/4	SC95A	M6 133	5.118	0.650	0.591	0.699	0.551	<sup>+0.0013</sup> / <sub>+0.0006</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	14.915	17.337	66/66/75
C41 2/3/4	SC95B	M6 133	5.118	0.650	0.591	0.699	0.748	<sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	14.915	17.337	66/66/75
C41 2/3/4	SC95C	M6 133	5.118	0.650	0.591	0.699	0.945	<sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	14.915	17.337	66/66/77
C41 2/3/4	SC110A	M6 133	5.906	0.650	0.630	0.699	0.748	<sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	<i>M8x16</i>	0.197	14.915	17.337	68/68/86
C41 2/3/4	SC110B	M6 133	5.906	0.650	0.630	0.699	0.945	<sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	<i>M8x16</i>	0.197	14.915	17.337	68/68/86
C41 2/3	SC130A	M6 133	7.402	0.748	0.630	0.699	0.945	<sup>+0.0020</sup> / <sub>+0.0010</sub>	5.591	6.496	5.118	<i>M10x20</i>	0.197	14.915	—	71/71
C41 2/3	SC130B	M8 319	7.441	0.787	0.669	0.699	1.260	<sup>+0.0020</sup> / <sub>+0.0010</sub>	6.299	6.496	5.118	<i>M10x20</i>	0.197	16.726	—	79/79
C41 2/3	SC180A	M8 319	9.449	0.787	0.689	0.699	1.260	<sup>+0.0020</sup> / <sub>+0.0010</sub>	7.559	8.465	7.087	<i>M12x24</i>	0.197	16.884	—	79/79
C41 2/3	SC180B	M8 319	9.449	0.787	0.689	0.699	1.496	<sup>+0.0020</sup> / <sub>+0.0010</sub>	7.559	8.465	7.087	<i>M12x24</i>	0.197	16.884	—	77/77



## C 41...HS

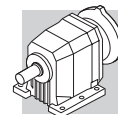


C 41 U						
	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	13

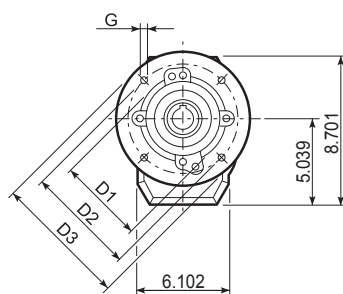
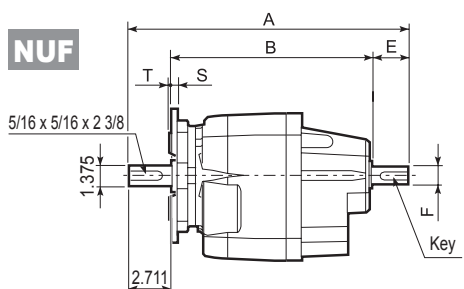
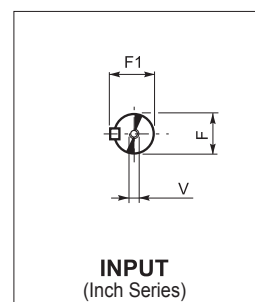
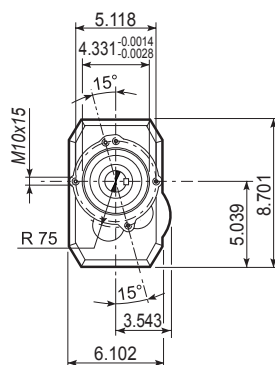
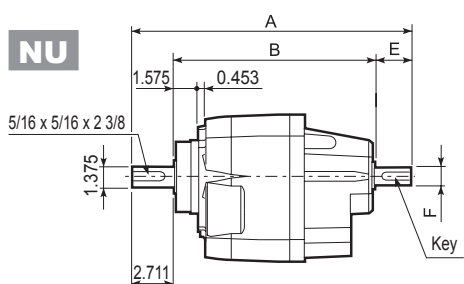
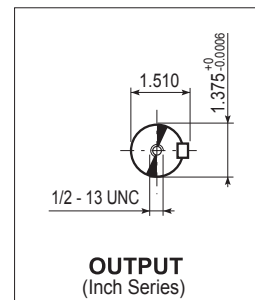
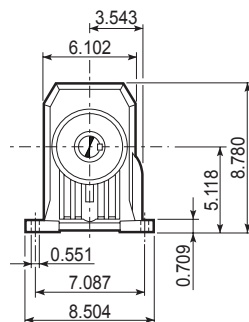
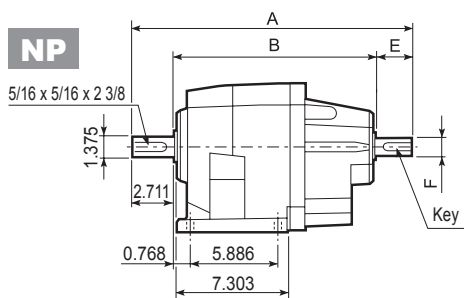
Dimensões em mm

		A	B	E	F	F1	F2	F3	F4	V	Kg
C 41 2	HS	425.5	305.5	50	24	27	8	2.5	45	M8x19	30
C 41 3		425.5	305.5	50	24	27	8	2.5	45	M8x19	30
C 41 4		448	338	40	19	21.5	6	2.5	35	M6x16	33

Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS



# C 41...NHS

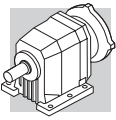


C 41_NU						
	D1	D2	D3	G	T	S
FA	5.118 $^{+0.0017}_{-0.0033}$	6.496	7.874	0.433	0.138	0.433
FB	7.087 $^{+0.0017}_{-0.0033}$	8.465	9.843	0.551	0.157	0.512

Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

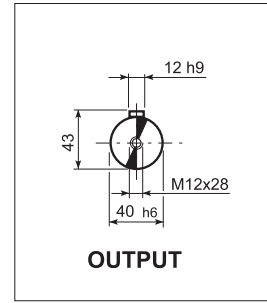
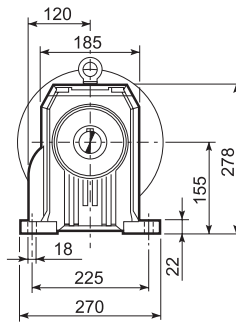
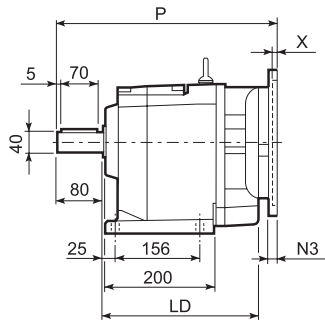
		A	B	E	F	F1	V	Key	lbs
	NHS	16.707	12.028	1.969	1.000 $^{+0}_{-0.0005}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	66
		16.707	12.028	1.969	1.000 $^{+0}_{-0.0005}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	66
		17.593	13.307	1.575	0.750 $^{+0}_{-0.0005}$	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	73

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

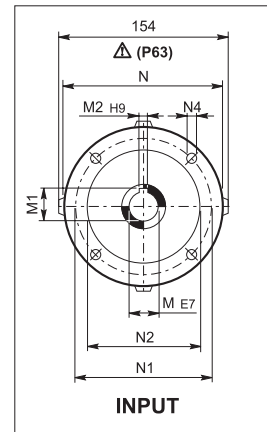
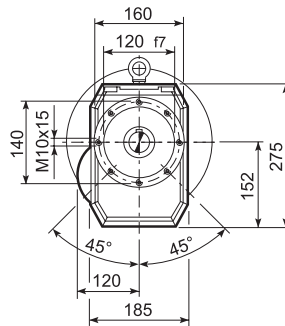
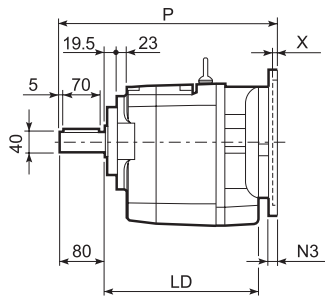


## C 51...P(IEC)

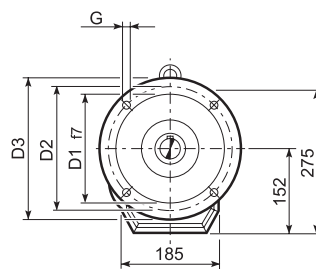
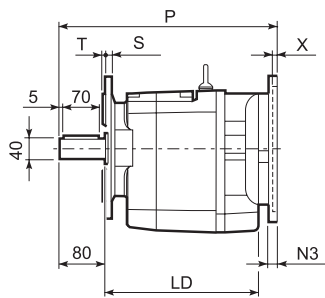
**P**



**U**



**UF**



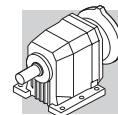
### C 51\_U

	D1	D2	D3	G	T	S
FA	180	215	250	14	4	13
FB	230	265	300	14	4	16

Dimensões em mm

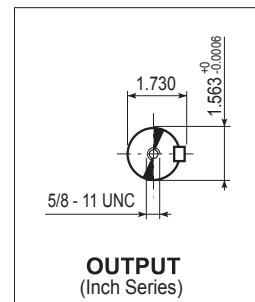
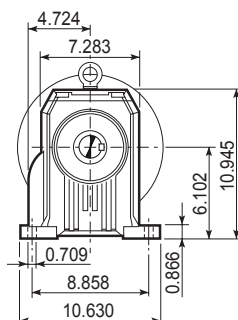
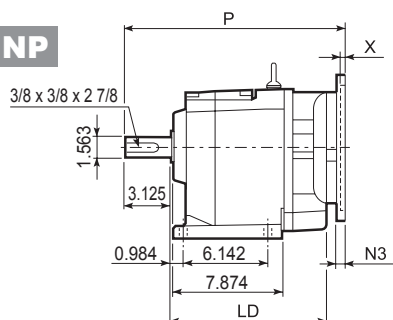
		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	kg
C 51 2/3	P63	252.5	11	12.8	4	140	115	95	—	M8x19	4	362.5	45
C 51 2/3	P71	252.5	14	16.3	5	160	130	110	—	M8x16	4.5	362.5	45
C 51 2/3	P80	267.5	19	21.8	6	200	165	130	—	M10x12	4	382	47
C 51 2/3	P90	267.5	24	27.3	8	200	165	130	—	M10x12	4	382	47
C 51 2/3	P100	252.5	28	31.3	8	250	215	180	—	M12x16	4.5	392	51
C 51 2/3	P112	252.5	28	31.3	8	250	215	180	—	M12x16	4.5	392	51
C 51 2/3	P132	252.5	38	41.3	10	300	265	230	16	14	5	428.5	54
C 51 2/3	P160	—	42	45.3	12	350	300	250	23	18	5.5	479	58
C 51 2/3	P180	—	48	51.8	14	350	300	250	23	18	5.5	479	58
C 51 4	P63	—	11	12.8	4	140	115	95	—	M8x19	4	434	47
C 51 4	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	434	47
C 51 4	P80	—	19	21.8	6	200	165	130	—	M10x12	4	453.5	49
C 51 4	P90	—	24	27.3	8	200	165	130	—	M10x12	4	463.5	49
C 51 4	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	463.5	53
C 51 4	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	463.5	53

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

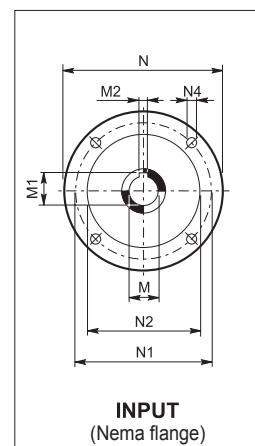
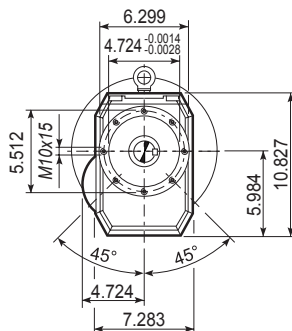
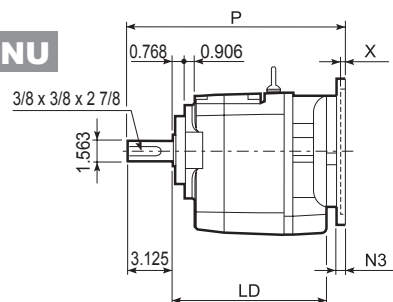


## C 51...N(NEMA Input)

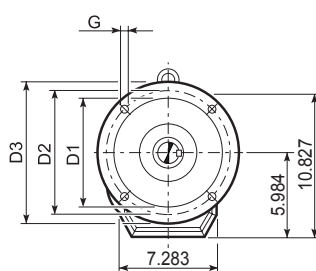
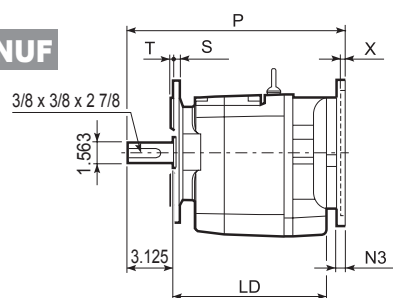
**NP**



**NU**



**NUF**

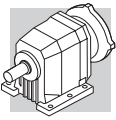


C 51 NU						
	D1	D2	D3	G	T	S
FA	7.087 <sup>+0.0020</sup> / <sub>-0.0033</sub>	8.465	9.843	0.551	0.157	0.512
FB	9.055 <sup>+0.0020</sup> / <sub>-0.0038</sub>	10.433	11.811	0.551	0.157	0.630

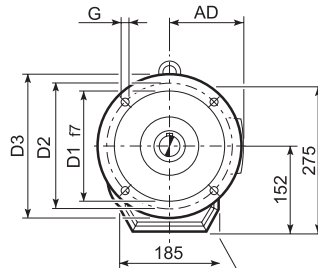
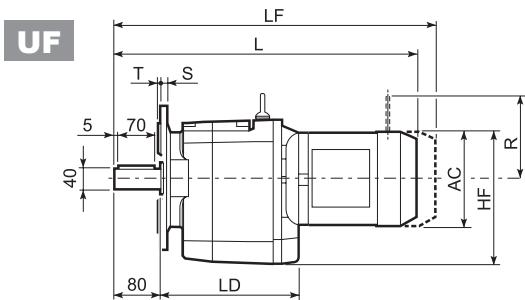
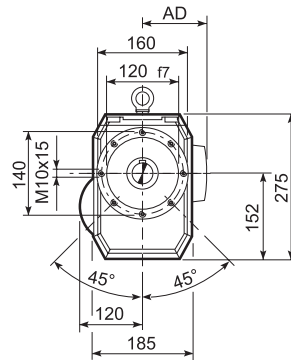
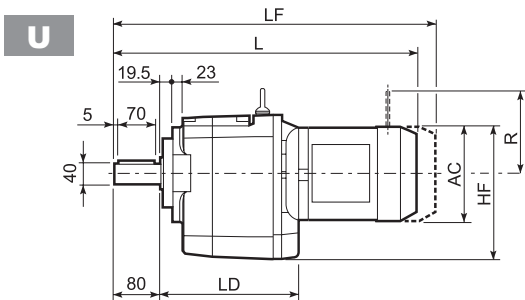
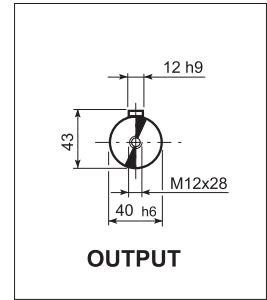
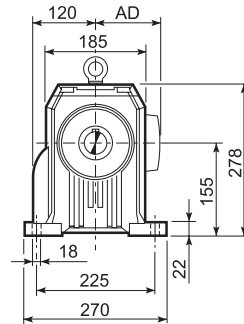
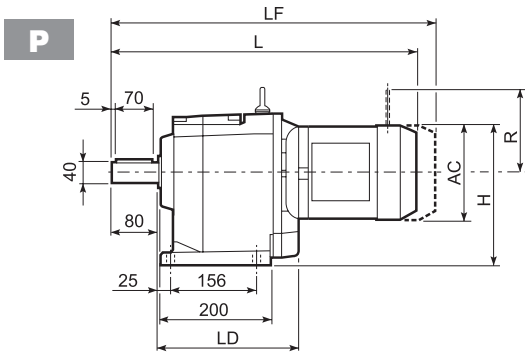
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
C 51 2/3	N56C	9.941	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	15.034	99
C 51 2/3	N140TC	9.941	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	15.034	104
C 51 2/3	N180TC	10.531	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.630	0.551	0.217	15.782	112
C 51 2/3	N210TC	9.941	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.531	0.531	0.217	17.023	119
C 51 2/3	N250TC	—	1.625 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.796	0.375 <sup>+0.0014</sup> / <sub>+0</sub>	13.780	7.250	8.500	—	0.551	0.217	19.818	158
C 51 2/3	N280TC	—	1.875 <sup>+0.0030</sup> / <sub>+0.0020</sub>	2.102	0.500 <sup>+0.0017</sup> / <sub>+0</sub>	13.740	10.500	9.000	—	0.551	0.217	20.015	161
C 51 4	N56C	—	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	17.849	104
C 51 4	N140TC	—	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	17.849	108
C 51 4	N180TC	—	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.630	0.551	0.217	18.676	117

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC



## C 51...M/ME



C 51_U						
	D1	D2	D3	G	T	S
FA	180	215	250	14	4	13
FB	230	265	300	14	4	16

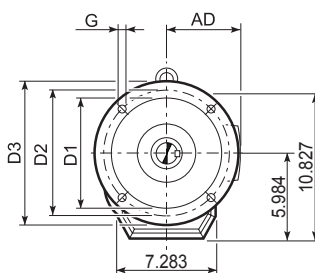
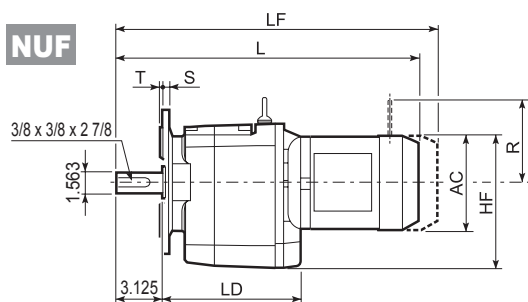
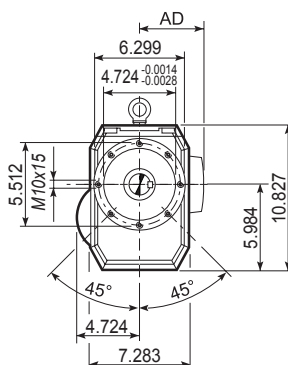
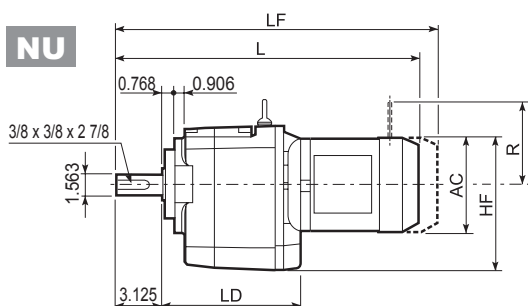
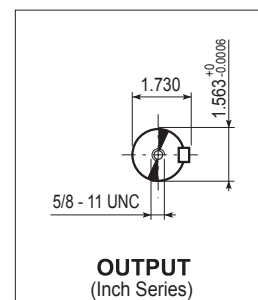
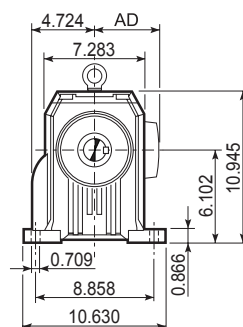
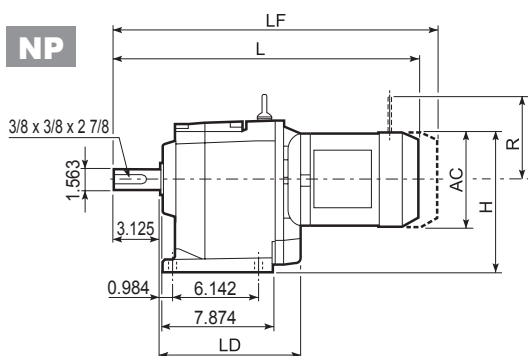
Dimensões em mm

			AC	H	HF	L	LD	AD	Kg	M...FD M...FA		M...FD		M...FA	
										LF	Kg	R	AD	R	AD
C 51 2/3	S1	M1	138	224	221	517.5	—	108	49	578.5	52	103	135	124	108
C 51 2/3	S2	ME2S	156	233	230	545.5	252.5	119	53	—	—	—	—	—	—
C 51 2/3	S3	ME3S	195	252.5	249.5	589.5	267.5	142	59.5	—	—	—	—	—	—
C 51 2/3	S3	ME3L	195	252.5	249.5	621.5	267.5	142	65	—	—	—	—	—	—
C 51 2/3	S4	ME4	258	284	281	729.5	—	193	99	—	—	—	—	—	—
C 51 2/3	S4	ME4LB	258	284	281	764.5	—	193	107	—	—	—	—	—	—
C 51 2/3	S5	ME5S	310	310	307	816	—	245	127	—	—	—	—	—	—
C 51 2/3	S5	ME5L	310	310	307	860	—	245	143	—	—	—	—	—	—
C 51 4	S1	M1	138	224	221	589	—	108	52	650	55	103	135	124	108
C 51 4	S2	ME2S	156	233	230	617	—	119	56	—	—	—	—	—	—
C 51 4	S3	ME3S	195	252.5	249.5	661	—	142	62.5	—	—	—	—	—	—
C 51 4	S3	ME3L	195	252.5	249.5	693	—	142	68	—	—	—	—	—	—





# C 51...M/ME



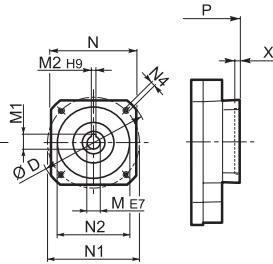
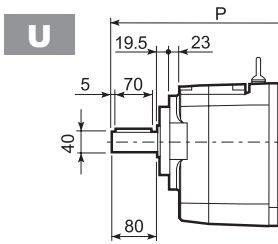
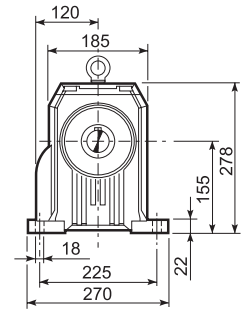
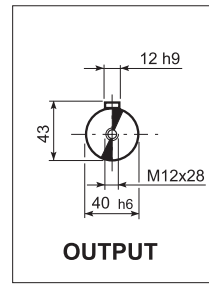
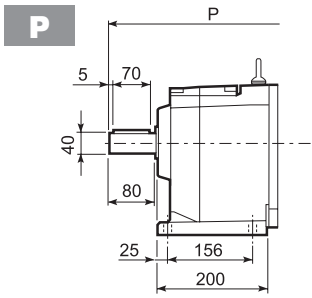
C 51 NU						
	D1	D2	D3	G	T	S
FA	7.087 <i>-0.0017</i> <i>-0.0033</i>	8.465	9.843	0.551	0.157	0.512
FB	9.055 <i>-0.0020</i> <i>-0.0038</i>	10.433	11.811	0.551	0.157	0.630

Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

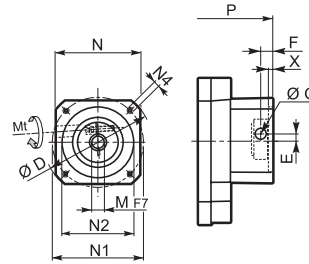
Motor	S	M	AC	H	HF	L	LD	AD	lbs	M...FD		M...FD		M...FA	
										LF	lbs	R	AD	R	AD
C 51 2/3	S1	M1	5.433	8.819	8.701	20.349	—	4.252	108	22.751	115	4.055	5.315	4.882	4.252
C 51 2/3	S2	ME2S	6.142	9.173	9.055	21.452	9.941	4.685	117	—	—	—	—	—	—
C 51 2/3	S3	ME3S	7.677	9.941	9.823	23.184	10.531	5.591	131	—	—	—	—	—	—
C 51 2/3	S3	ME3L	7.677	9.941	9.823	24.444	10.531	5.591	143	—	—	—	—	—	—
C 51 2/3	S4	ME4	10.157	11.181	11.063	28.696	—	7.598	218	—	—	—	—	—	—
C 51 2/3	S4	ME4LB	10.157	11.181	11.063	30.074	—	7.598	236	—	—	—	—	—	—
C 51 2/3	S5	ME5S	12.205	12.205	12.087	32.101	—	9.646	280	—	—	—	—	—	—
C 51 2/3	S5	ME5L	12.205	12.205	12.087	33.834	—	9.646	315	—	—	—	—	—	—
C 51 4	S1	M1	5.433	8.819	8.701	23.164	—	4.252	115	25.566	121	4.055	5.315	4.882	4.252
C 51 4	S2	ME2S	6.142	9.173	9.055	24.267	—	4.685	123	—	—	—	—	—	—
C 51 4	S3	ME3S	7.677	9.941	9.823	25.999	—	5.591	138	—	—	—	—	—	—
C 51 4	S3	ME3L	7.677	9.941	9.823	27.259	—	5.591	150	—	—	—	—	—	—



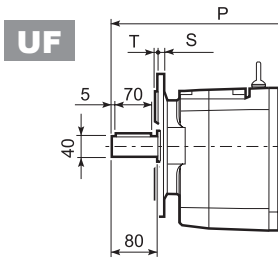
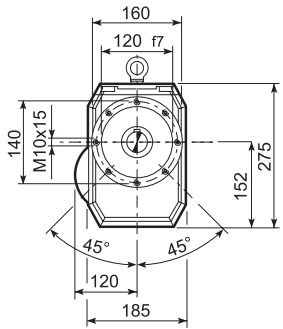
# C 51...SK / SC



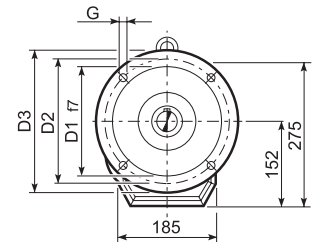
SK...



SC...



C 51_U						
	D1	D2	D3	G	T	S
FA	180	215	250	14	4	13
FB	230	265	300	14	4	16



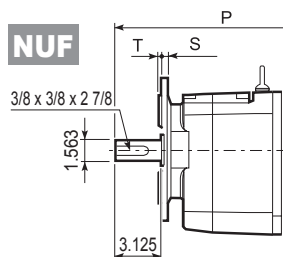
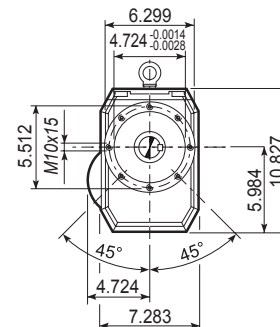
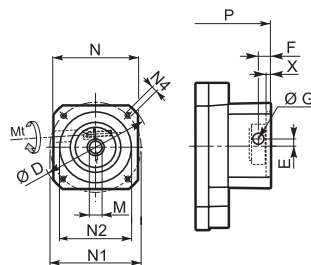
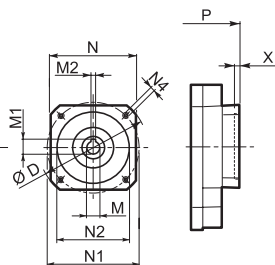
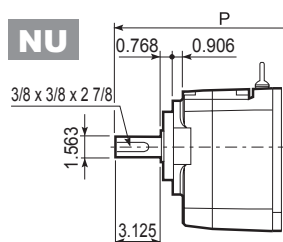
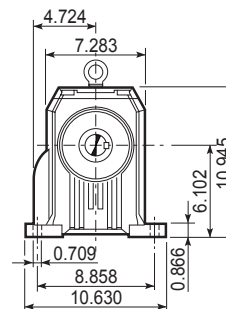
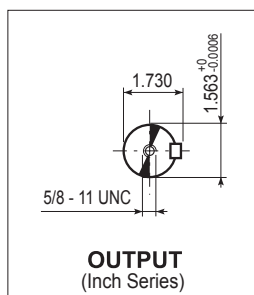
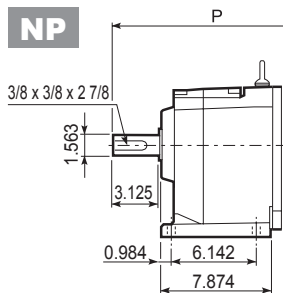
Dimensões em mm

Icon	Icon	D	M	M1	M2	N	N1	N2	N4	X	P		Kg
											2/3x	4x	
C 51 2/3	SK80B	120	14	16.3	5	96	100	80	M6x12	4	382	—	46/46
C 51 2/3/4	SK80C	120	19	21.8	6	96	100	80	M6x12	4	382	453.5	47/47/49
C 51 2/3/4	SK95A	130	14	16.3	5	102	115	95	M8x12	4	382	453.5	46/46/48
C 51 2/3/4	SK95B	130	19	21.8	6	102	115	95	M8x12	4	382	453.5	47/47/49
C 51 2/3/4	SK95C	130	24	27.3	8	102	115	95	M8x12	4	382	453.5	47/47/49
C 51 2/3/4	SK110A	150	19	21.8	6	120	130	110	M8x12	5	382	453.5	47/47/51
C 51 2/3/4	SK110B	150	24	27.3	8	120	130	110	M8x12	5	382	453.5	47/47/51
C 51 2/3/4	SK130A	188	24	27.3	8	142	165	130	M10x20	5	382	453.5	49/49/52
C 51 2/3	SK130B	189	32	35.3	10	160	165	130	M10x20	5	428.5	—	55/55
C 51 2/3	SK180A	240	32	35.3	10	192	215	180	M12x19	5	428.5	—	55/55
C 51 2/3	SK180B	240	38	41.3	10	192	215	180	M12x19	5	428.5	—	55/55

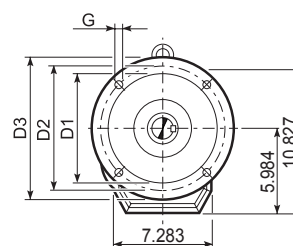
Icon	Icon	Icon	Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		Kg
														2/3x	4x	
C 51 2/3	SC80B	M6	15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	405.5	—	47/47
C 51 2/3/4	SC80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	405.5	477	48/48/50
C 51 2/3/4	SC95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	405.5	477	47/47/49
C 51 2/3/4	SC95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	405.5	477	48/48/50
C 51 2/3/4	SC95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	405.5	477	48/48/50
C 51 2/3/4	SC110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	405.5	477	49/49/52
C 51 2/3/4	SC110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	405.5	477	49/49/52
C 51 2/3/4	SC130A	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	405.5	477	50/50/53
C 51 2/3	SC130B	M8	36	189	20	17	17.75	32	160	165	130	M10x20	5	451.5	—	54/54
C 51 2/3	SC180A	M8	36	240	20	17.5	17.75	32	192	215	180	M12x24	5	455.5	—	54/54
C 51 2/3	SC180B	M8	36	240	20	17.5	17.75	38	192	215	180	M12x24	5	455.5	—	54/54



# C 51...SK / SC



C 51 NU						
	D1	D2	D3	G	T	S
FA	7.087 <i>-0.0017</i> <i>-0.0033</i>	8.465	9.843	0.551	0.157	0.512
FB	9.055 <i>-0.0020</i> <i>-0.0038</i>	10.433	11.811	0.551	0.157	0.630



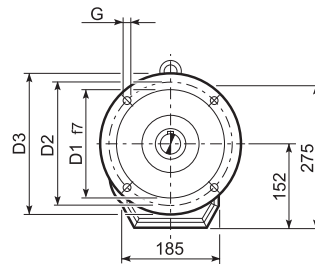
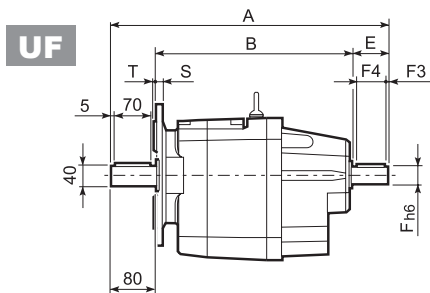
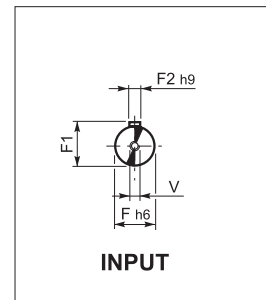
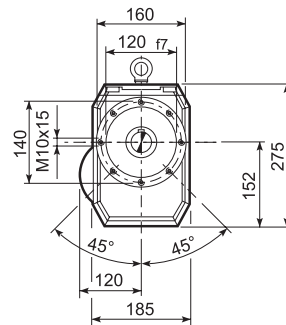
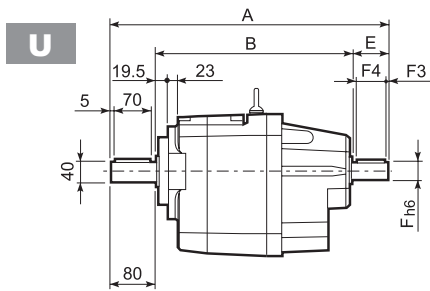
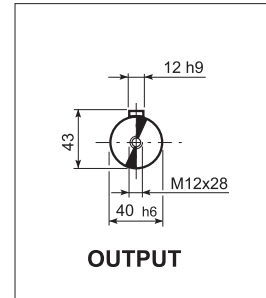
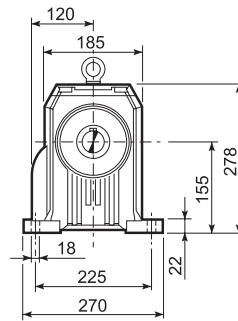
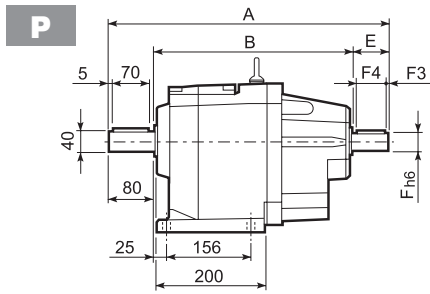
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		D	M	M1	M2	N	N1	N2	N4	X	2/3x	4x	lbs
C 51 2/3	SK80B	4.724	0.551 <i>+0.0020</i> <i>+0.0013</i>	0.642	0.197 <i>+0.0012</i> <i>+0</i>	3.780	3.937	3.150	M6x12	0.157	15.015	—	101/101
C 51 2/3/4	SK80C	4.724	0.748 <i>+0.0024</i> <i>+0.0016</i>	0.858	0.236 <i>+0.0012</i> <i>+0</i>	3.780	3.937	3.150	M6x12	0.157	15.015	17.830	104/104/108
C 51 2/3/4	SK95A	5.118	0.551 <i>+0.0020</i> <i>+0.0013</i>	0.642	0.197 <i>+0.0012</i> <i>+0</i>	4.016	4.528	3.740	M8x12	0.157	15.015	17.830	101/101/106
C 51 2/3/4	SK95B	5.118	0.748 <i>+0.0024</i> <i>+0.0016</i>	0.858	0.236 <i>+0.0012</i> <i>+0</i>	4.016	4.528	3.740	M8x12	0.157	15.015	17.830	104/104/108
C 51 2/3/4	SK95C	5.118	0.945 <i>+0.0024</i> <i>+0.0016</i>	1.075	0.315 <i>+0.0014</i> <i>+0</i>	4.016	4.528	3.740	M8x12	0.157	15.015	17.830	104/104/108
C 51 2/3/4	SK110A	5.906	0.748 <i>+0.0024</i> <i>+0.0016</i>	0.858	0.236 <i>+0.0012</i> <i>+0</i>	4.724	5.118	4.331	M8x12	0.197	15.015	17.830	104/104/112
C 51 2/3/4	SK110B	5.906	0.945 <i>+0.0024</i> <i>+0.0016</i>	1.075	0.315 <i>+0.0014</i> <i>+0</i>	4.724	5.118	4.331	M8x12	0.197	15.015	17.830	104/104/112
C 51 2/3/4	SK130A	7.402	0.945 <i>+0.0024</i> <i>+0.0016</i>	1.075	0.315 <i>+0.0014</i> <i>+0</i>	5.591	6.496	5.118	M10x20	0.197	15.015	17.830	108/108/115
C 51 2/3	SK130B	7.441	1.260 <i>+0.0030</i> <i>+0.0020</i>	1.390	0.394 <i>+0.0014</i> <i>+0</i>	6.299	6.496	5.118	M10x20	0.197	16.845	—	121/121
C 51 2/3	SK180A	9.449	1.260 <i>+0.0030</i> <i>+0.0020</i>	1.390	0.394 <i>+0.0014</i> <i>+0</i>	7.559	8.465	7.087	M12x19	0.197	16.845	—	121/121
C 51 2/3	SK180B	9.449	1.496 <i>+0.0030</i> <i>+0.0020</i>	1.626	0.394 <i>+0.0014</i> <i>+0</i>	7.559	8.465	7.087	M12x19	0.197	16.845	—	121/121

			Mt [lb-in]	D	E	F	G	M	N	N1	N2	N4	X	2/3x	4x	lbs
C 51 2/3	SC80B	M6	133	4.724	0.610	0.571	0.699	0.551 <i>+0.0013</i> <i>+0.0006</i>	3.780	3.937	3.150	M6x12	0.157	15.940	—	104/104
C 51 2/3/4	SC80C	M6	133	4.724	0.610	0.571	0.699	0.748 <i>+0.0018</i> <i>+0.0008</i>	3.780	3.937	3.150	M6x12	0.157	15.940	18.755	106/106/110
C 51 2/3/4	SC95A	M6	133	5.118	0.650	0.591	0.699	0.551 <i>+0.0013</i> <i>+0.0006</i>	4.016	4.528	3.740	M8x16	0.157	15.940	18.755	104/104/108
C 51 2/3/4	SC95B	M6	133	5.118	0.650	0.591	0.699	0.748 <i>+0.0016</i> <i>+0.0008</i>	4.016	4.528	3.740	M8x16	0.157	15.940	18.755	106/106/110
C 51 2/3/4	SC95C	M6	133	5.118	0.650	0.591	0.699	0.945 <i>+0.0016</i> <i>+0.0008</i>	4.016	4.528	3.740	M8x16	0.157	15.940	18.755	106/106/110
C 51 2/3/4	SC110A	M6	133	5.906	0.650	0.630	0.699	0.748 <i>+0.0016</i> <i>+0.0008</i>	4.724	5.118	4.331	M8x16	0.197	15.940	18.755	108/108/115
C 51 2/3/4	SC110B	M6	133	5.906	0.650	0.630	0.699	0.945 <i>+0.0016</i> <i>+0.0008</i>	4.724	5.118	4.331	M8x16	0.197	15.940	18.755	108/108/115
C 51 2/3/4	SC130A	M6	133	7.402	0.748	0.630	0.699	0.945 <i>+0.0016</i> <i>+0.0008</i>	5.591	6.496	5.118	M10x20	0.197	15.940	18.755	110/110/117
C 51 2/3	SC130B	M8	319	7.441	0.787	0.669	0.699	1.260 <i>+0.0020</i> <i>+0.0010</i>	6.299	6.496	5.118	M10x20	0.197	17.751	—	119/119
C 51 2/3	SC180A	M8	319	9.449	0.787	0.689	0.699	1.260 <i>+0.0020</i> <i>+0.0010</i>	7.559	8.465	7.087	M12x24	0.197	17.908	—	119/119
C 51 2/3	SC180B	M8	319	9.449	0.787	0.689	0.699	1.496 <i>+0.0020</i> <i>+0.0010</i>	7.559	8.465	7.087	M12x24	0.197	17.908	—	119/119



## C 51...HS



C 51 U						
	D1	D2	D3	G	T	S
FA	180	215	250	14	4	13
FB	230	265	300	14	4	16

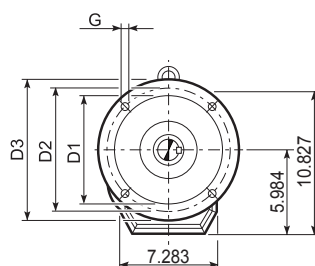
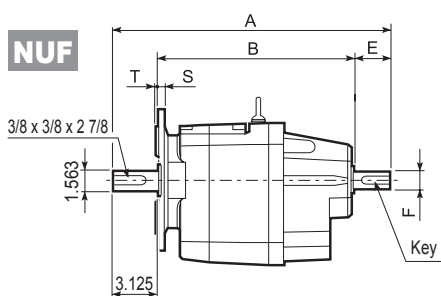
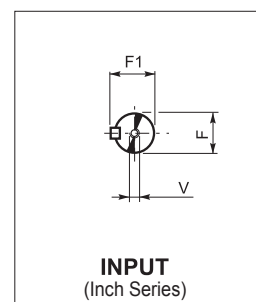
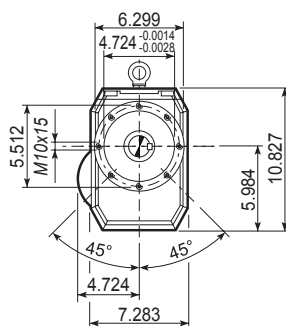
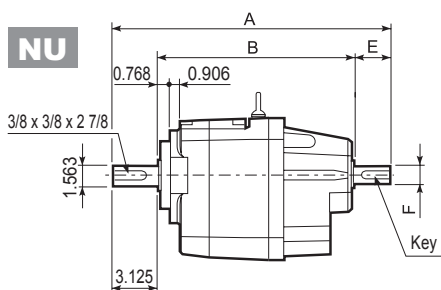
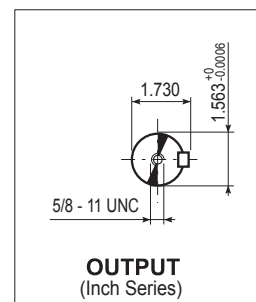
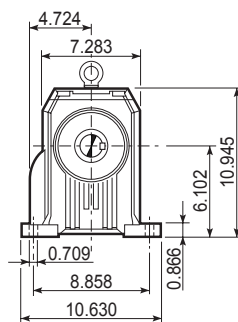
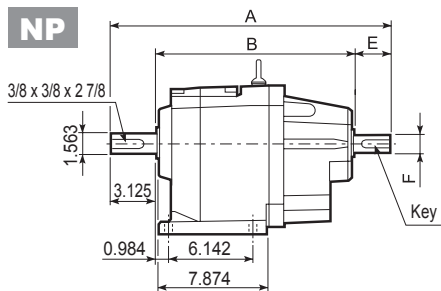
Dimensões em mm

		A	B	E	F	F1	F2	F3	F4	V	Kg
C 51 2	HS	451.5	322	50	24	24	8	2.5	45	M8x19	45
C 51 3		451.5	322	50	24	24	8	2.5	45	M8x19	45
C 51 4		484	364	40	19	21.5	6	2.5	35	M6x16	48

Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS



# C 51...NHS



<b>C 51 NU</b>							
	D1	D2	D3	G	T	S	
<b>FA</b>	7.087	$-0.0017$ $-0.0033$	8.465	9.843	0.551	0.157	0.512
<b>FB</b>	9.055	$-0.0020$ $-0.0038$	10.433	11.811	0.551	0.157	0.630

Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

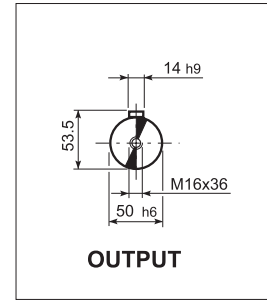
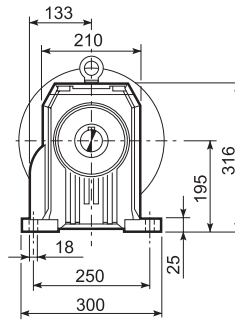
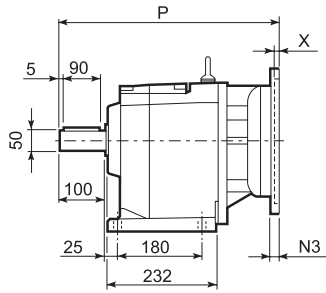
		A	B	E	F	F1	V	Key	lbs
<b>C 51 2</b>	<b>NHS</b>	17.751	12.657	1.969	1.000	$+0$ $-0.0005$	1.109	1/4 x 1/4 x 1 3/4	99
<b>C 51 3</b>		17.751	12.657	1.969	1.000	$+0$ $-0.0005$	1.109	3/8 - 16 UNC	99
<b>C 51 4</b>		19.031	14.331	1.575	0.750	$+0$ $-0.0005$	0.832	1/4 - 20 UNC	106

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

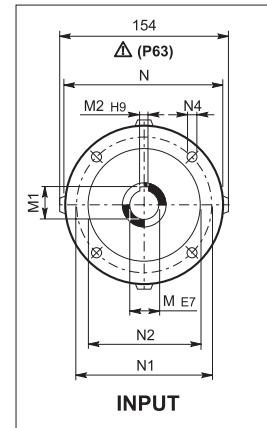
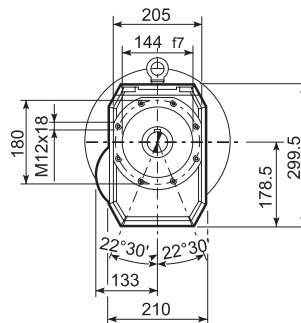
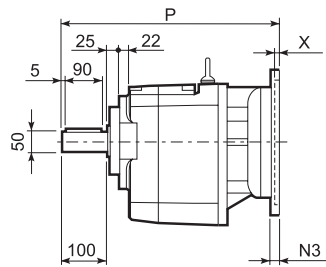


## C 61...P(IEC)

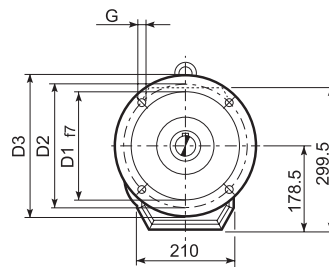
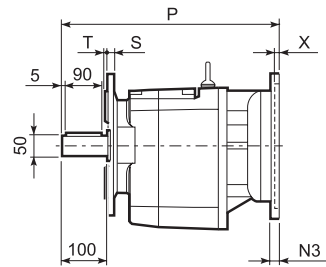
**P**



**U**



**UF**



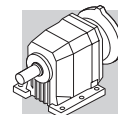
### C 61\_U

	D1	D2	D3	G	T	S
FA	230	265	300	14	4	16
FB	250	300	350	18	5	18

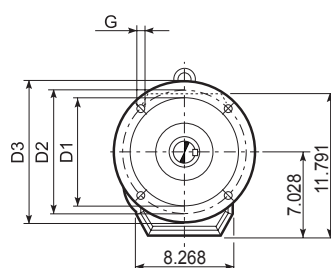
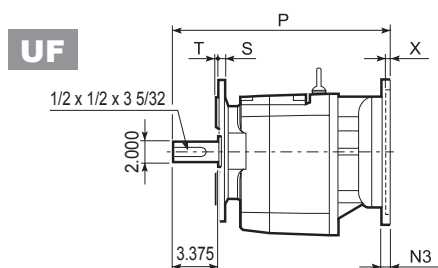
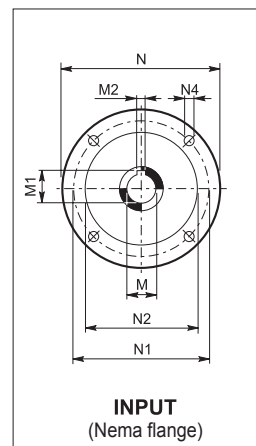
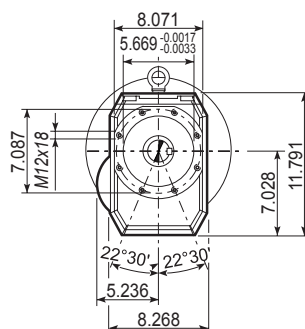
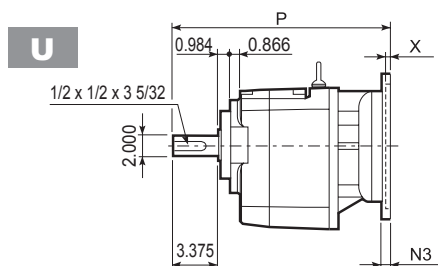
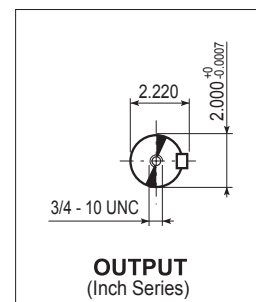
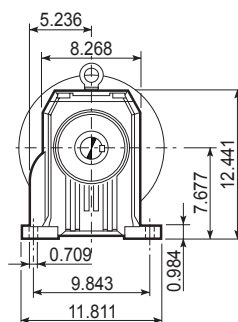
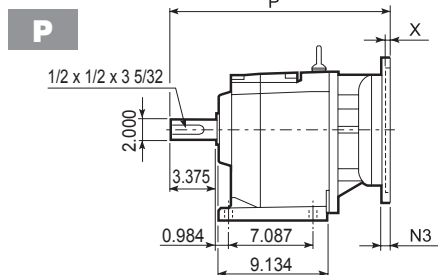
Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	
C 61 2/3	P63	11	12.8	4	140	115	95	—	M8x19	4	415.5	55
C 61 2/3	P71	14	16.3	5	160	130	110	—	M8x16	4.5	415.5	57
C 61 2/3	P80	19	21.8	6	200	165	130	—	M10x12	4	435	61
C 61 2/3	P90	24	27.3	8	200	165	130	—	M10x12	4	435	61
C 61 2/3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	444	65
C 61 2/3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	444	65
C 61 2/3	P132	38	41.3	10	300	265	230	16	14	5	481.5	68
C 61 2/3	P160	42	45.3	12	350	300	250	23	18	5.5	532	73
C 61 2/3	P180	48	51.8	14	350	300	250	23	18	5.5	532	73
C 61 4	P63	11	12.8	4	140	115	95	—	M8x19	4	486	61
C 61 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	489	63
C 61 4	P80	19	21.8	6	200	165	130	—	M10x12	4	505.5	67
C 61 4	P90	24	27.3	8	200	165	130	—	M10x12	4	505.5	67
C 61 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	515.5	71
C 61 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	515.5	71

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA



## C 61...N(NEMA Input)



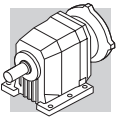
C 61 NU						
	D1	D2	D3	G	T	S
FA	9.055 <sup>+0.0020</sup> / <sub>-0.0038</sub>	10.433	11.811	0.551	0.157	0.630
FB	9.843 <sup>+0.0020</sup> / <sub>-0.0038</sub>	11.811	13.780	0.709	0.197	0.709

Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
C 61 2/3	N56C	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	16.584	126
C 61 2/3	N140TC	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	16.584	134
C 61 2/3	N180TC	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.630	0.551	0.217	17.332	143
C 61 2/3	N210TC	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.531	0.531	0.217	18.572	150
C 61 2/3	N250TC	1.625 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.796	0.375 <sup>+0.0014</sup> / <sub>+0</sub>	13.780	7.250	8.500	—	0.551	0.217	21.367	191
C 61 2/3	N280TC	1.875 <sup>+0.0030</sup> / <sub>+0.0020</sub>	2.102	0.500 <sup>+0.0017</sup> / <sub>+0</sub>	13.740	10.500	9.000	—	0.551	0.217	21.564	194
C 61 4	N56C	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	19.477	139
C 61 4	N140TC	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	19.477	148
C 61 4	N180TC	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.630	0.551	0.217	20.186	157

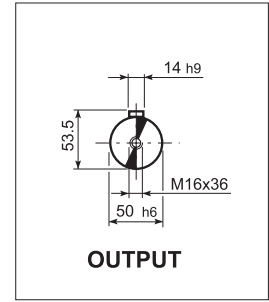
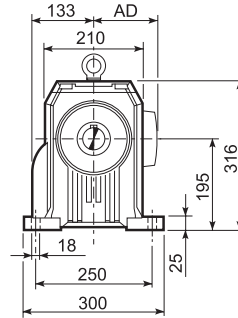
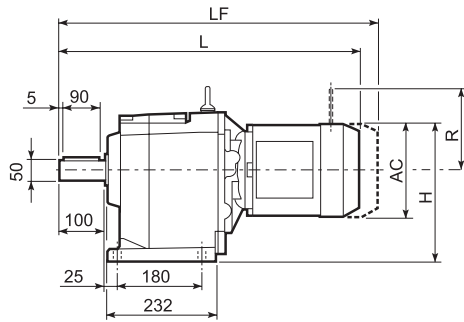
Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC



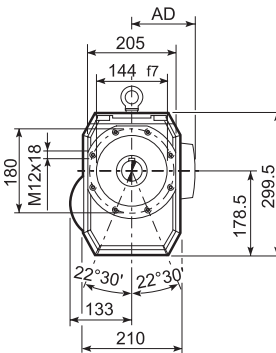
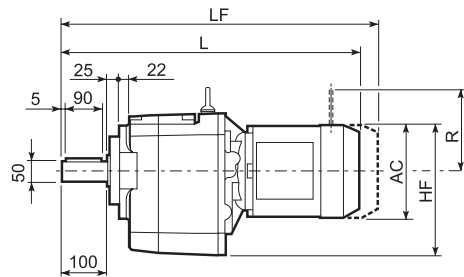


## C 61...M/ME

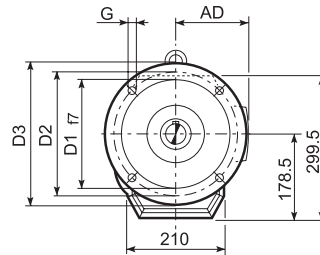
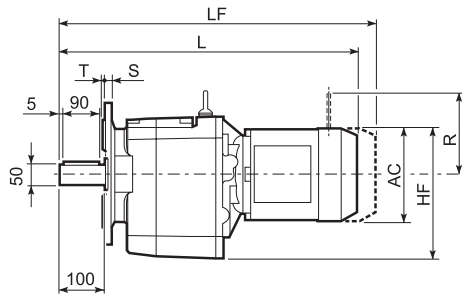
**P**



**U**



**UF**

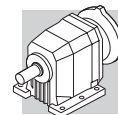


### C 61\_U

	D1	D2	D3	G	T	S
FA	230	265	300	14	4	16
FB	250	300	350	18	5	18

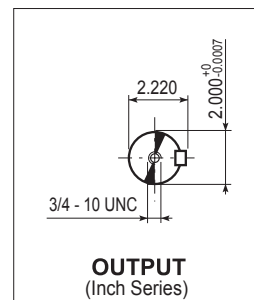
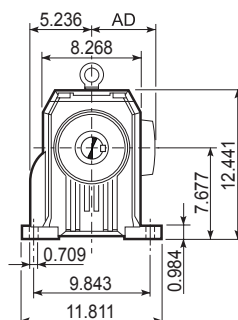
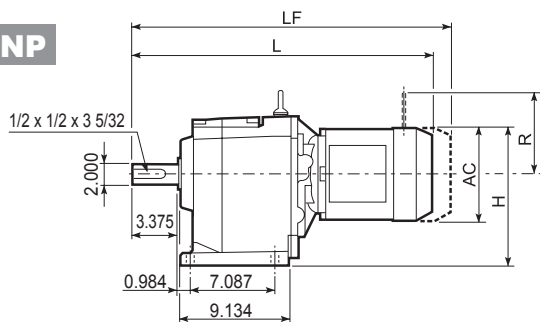
Dimensões em mm

Motor Icon	S	ME	AC	H	HF	L	AD	Kg	M...FD M...FA		M...FD		M...FA	
									LF	Kg	R	AD	R	AD
C 61 2/3	S2	ME2S	156	273	256.5	598.5	119	61	—	—	—	—	—	—
C 61 2/3	S3	ME3S	195	292.5	276	642.5	142	67.5	—	—	—	—	—	—
C 61 2/3	S3	ME3L	195	292.5	276	674.5	142	74	—	—	—	—	—	—
C 61 2/3	S4	ME4	258	324	307.5	782.5	193	108	—	—	—	—	—	—
C 61 2/3	S4	ME4LB	258	324	307.5	817.5	193	116	—	—	—	—	—	—
C 61 2/3	S5	ME5S	310	350	333.5	869	245	136	—	—	—	—	—	—
C 61 2/3	S5	ME5L	310	350	333.5	913	245	152	—	—	—	—	—	—
C 61 4	S1	M1	138	264	247.5	641	108	71	702	74	103	135	124	108
C 61 4	S2	ME2S	156	273	256.5	669	119	75	—	—	—	—	—	—
C 61 4	S3	ME3S	195	292.5	276	713	142	80.5	—	—	—	—	—	—
C 61 4	S3	ME3L	195	292.5	276	745	142	87	—	—	—	—	—	—

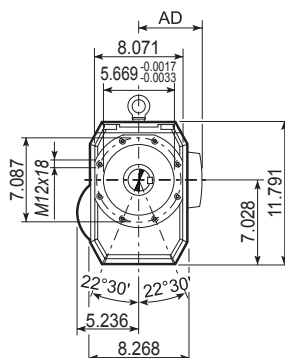
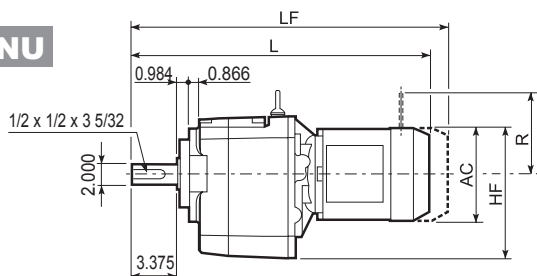


## C 61...M/ME

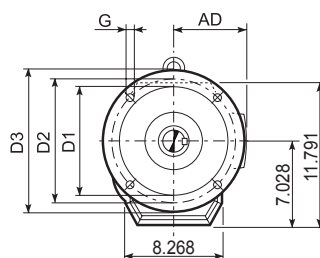
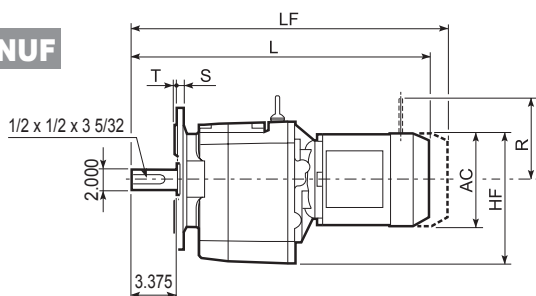
**NP**



**NU**



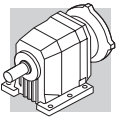
**NUF**



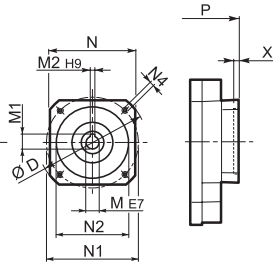
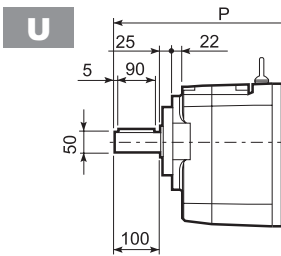
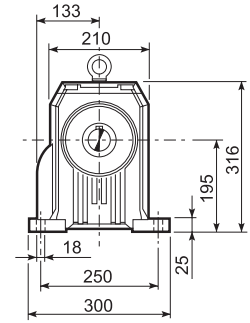
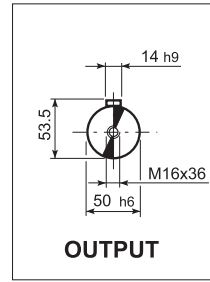
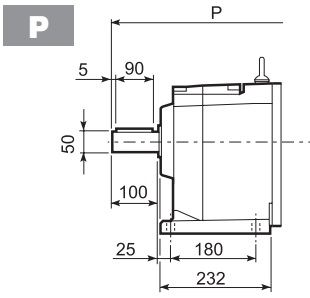
C 61_NU						
	D1	D2	D3	G	T	S
FA	9.055 <small>-0.0020 -0.0038</small>	10.433	11.811	0.551	0.157	0.630
FB	9.843 <small>-0.0020 -0.0038</small>	11.811	13.780	0.709	0.197	0.709

Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

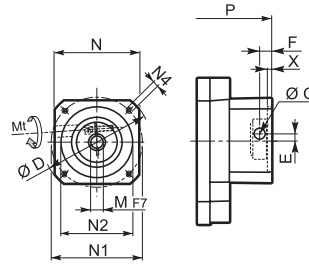
			AC	H	HF	L	AD	lbs	M...FD M...FA		M...FD		M...FA	
									LF	lbs	R	AD	R	AD
C 61 2/3	S2	ME2S	6.142	10.748	10.098	23.001	4.685	134	—	—	—	—	—	—
C 61 2/3	S3	ME3S	7.677	11.516	10.866	24.733	5.591	149	—	—	—	—	—	—
C 61 2/3	S3	ME3L	7.677	11.516	10.866	25.993	5.591	163	—	—	—	—	—	—
C 61 2/3	S4	ME4	10.157	12.756	12.106	30.245	7.598	238	—	—	—	—	—	—
C 61 2/3	S4	ME4LB	10.157	12.756	12.106	31.623	7.598	256	—	—	—	—	—	—
C 61 2/3	S5	ME5S	12.205	13.780	13.130	33.651	9.646	300	—	—	—	—	—	—
C 61 2/3	S5	ME5L	12.205	13.780	13.130	35.383	9.646	335	—	—	—	—	—	—
C 61 4	S1	M1	5.433	10.394	9.744	24.674	4.252	157	27.076	163	4.055	5.315	4.882	4.252
C 61 4	S2	ME2S	6.142	10.748	10.098	25.777	4.685	165	—	—	—	—	—	—
C 61 4	S3	ME3S	7.677	11.516	10.866	27.509	5.591	177	—	—	—	—	—	—
C 61 4	S3	ME3L	7.677	11.516	10.866	28.769	5.591	192	—	—	—	—	—	—



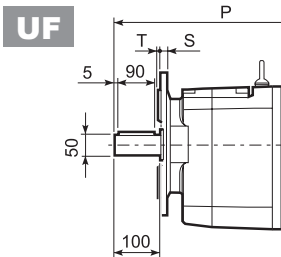
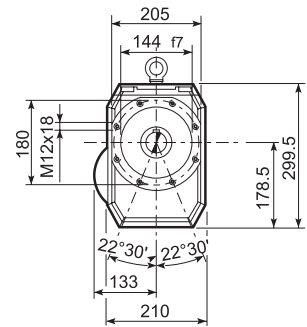
# C 61...SK / SC



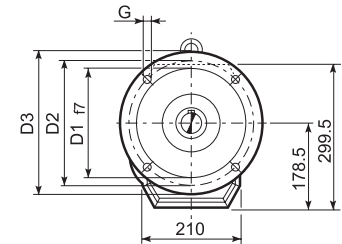
SK...



SC...



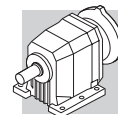
C 61_U						
	D1	D2	D3	G	T	S
FA	230	265	300	14	4	16
FB	250	300	350	18	5	18



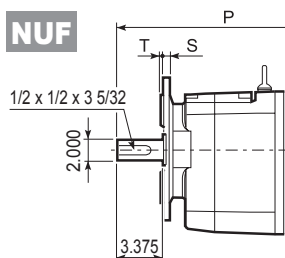
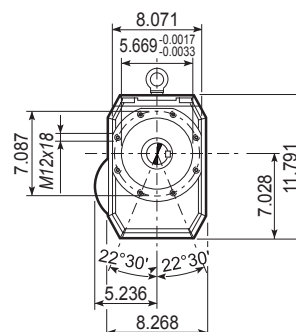
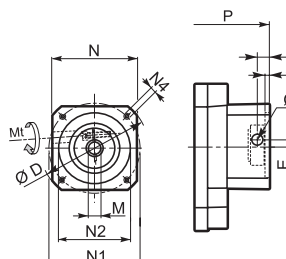
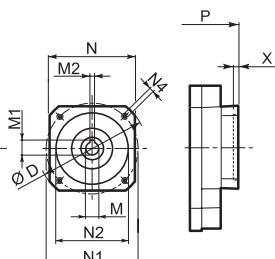
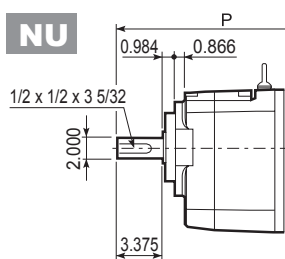
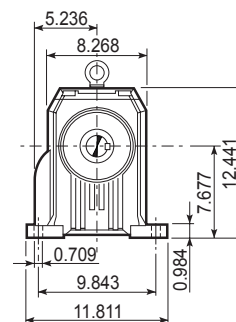
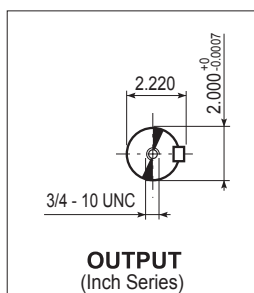
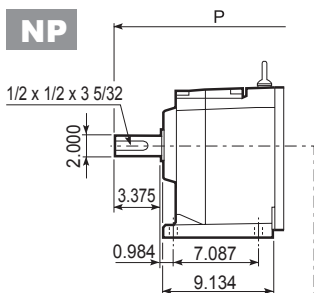
Dimensões em mm

		D	M	M1	M2	N	N1	N2	N4	X	P		Kg
											2/3x	4x	
C 61 4	SK80B	120	14	16.3	5	96	100	80	M6x12	4	—	505.5	62
C 61 2/3/4	SK80C	120	19	21.8	6	96	100	80	M6x12	4	435	505.5	63/63/69
C 61 2/3/4	SK95A	130	14	16.3	5	102	115	95	M8x12	4	435	505.5	60/60/67
C 61 2/3/4	SK95B	130	19	21.8	6	102	115	95	M8x12	4	435	505.5	63/63/69
C 61 2/3/4	SK95C	130	24	27.3	8	102	115	95	M8x12	4	435	505.5	63/63/69
C 61 2/3/4	SK110A	140	19	21.8	6	120	130	110	M8x12	5	435	505.5	63/63/69
C 61 2/3/4	SK110B	140	24	27.3	8	120	130	110	M8x12	5	435	505.5	63/63/69
C 61 2/3/4	SK130A	188	24	27.3	8	142	165	130	M10x20	5	435	505.5	67/67/80
C 61 2/3	SK130B	189	32	35.3	10	160	165	130	M10x20	5	481.5	—	72/72
C 61 2/3	SK180A	240	32	35.3	10	192	215	180	M12x19	5	481.5	—	72/72
C 61 2/3	SK180B	240	38	41.3	10	192	215	180	M12x19	5	481.5	—	66/66

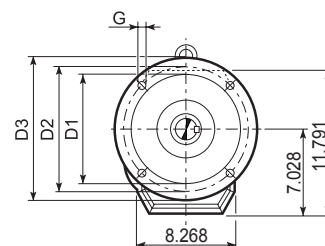
		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		Kg
													2/3x	4x	
C 61 4	SC80B	M6 15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	—	529	63
C 61 2/3/4	SC80C	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	458.5	529	64/64/70
C 61 2/3/4	SC95A	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	458.5	529	61/61/68
C 61 2/3/4	SC95B	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	458.5	529	64/64/70
C 61 2/3/4	SC95C	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	458.5	529	64/64/70
C 61 2/3/4	SC110A	M6 15	140	16.5	16	17.75	19	120	130	110	M8x16	5	458.5	529	65/65/70
C 61 2/3/4	SC110B	M6 15	140	16.5	16	17.75	24	120	130	110	M8x16	5	458.5	529	65/65/70
C 61 2/3/4	SC130A	M6 15	188	19	16	17.75	24	142	165	130	M10x20	5	458.5	529	66/66/81
C 61 2/3	SC130B	M8 36	189	20	17	17.75	32	160	165	130	M10x20	5	504.5	—	75/75
C 61 2/3	SC180A	M8 36	240	20	17.5	17.75	32	192	215	180	M12x24	5	508.5	—	75/75
C 61 2/3	SC180B	M8 36	240	20	17.5	17.75	38	192	215	180	M12x24	5	508.5	—	69/69



# C 61...SK / SC



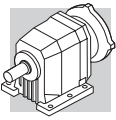
C 61_NU						
	D1	D2	D3	G	T	S
FA	9.055 <i>-0.0020</i> <i>-0.0038</i>	10.433	11.811	0.551	0.157	0.630
FB	9.843 <i>-0.0020</i> <i>-0.0038</i>	11.811	13.780	0.709	0.197	0.709



Dimensões em polegadas, exceto quando mostrados em *itálico [mm]*

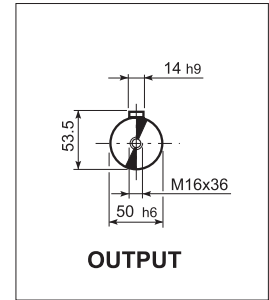
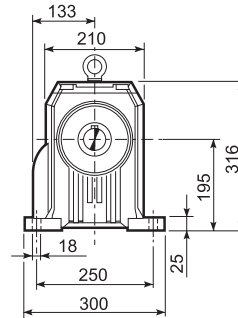
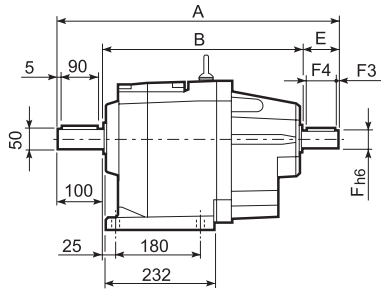
		D	M	M1	M2	N	N1	N2	N4	X	2/3x	P	lbs
C 61 4	SK80B	4.724	0.551 <i>+0.0020</i> <i>+0.0013</i>	0.642	0.197 <i>+0.0012</i> <i>+0</i>	3.780	3.937	3.150	M6x12	0.157	—	19.340	137
C 61 2/3/4	SK80C	4.724	0.748 <i>+0.0024</i> <i>+0.0016</i>	0.858	0.236 <i>+0.0012</i> <i>+0</i>	3.780	3.937	3.150	M6x12	0.157	16.564	19.340	139/139/152
C 61 2/3/4	SK95A	5.118	0.551 <i>+0.0020</i> <i>+0.0013</i>	0.642	0.197 <i>+0.0012</i> <i>+0</i>	4.016	4.528	3.740	M8x12	0.157	16.564	19.340	132/132/148
C 61 2/3/4	SK95B	5.118	0.748 <i>+0.0024</i> <i>+0.0016</i>	0.858	0.236 <i>+0.0012</i> <i>+0</i>	4.016	4.528	3.740	M8x12	0.157	16.564	19.340	139/139/152
C 61 2/3/4	SK95C	5.118	0.945 <i>+0.0024</i> <i>+0.0016</i>	1.075	0.315 <i>+0.0014</i> <i>+0</i>	4.016	4.528	3.740	M8x12	0.157	16.564	19.340	139/139/152
C 61 2/3/4	SK110A	5.512	0.748 <i>+0.0024</i> <i>+0.0016</i>	0.858	0.236 <i>+0.0012</i> <i>+0</i>	4.724	5.118	4.331	M8x12	0.197	16.564	19.340	139/139/152
C 61 2/3/4	SK110B	5.512	0.945 <i>+0.0024</i> <i>+0.0016</i>	1.075	0.315 <i>+0.0014</i> <i>+0</i>	4.724	5.118	4.331	M8x12	0.197	16.564	19.340	139/139/152
C 61 2/3/4	SK130A	7.402	0.945 <i>+0.0024</i> <i>+0.0016</i>	1.075	0.315 <i>+0.0014</i> <i>+0</i>	5.591	6.496	5.118	M10x20	0.197	16.564	19.340	148/148/176
C 61 2/3	SK130B	7.441	1.260 <i>+0.0030</i> <i>+0.0020</i>	1.390	0.394 <i>+0.0014</i> <i>+0</i>	6.299	6.496	5.118	M10x20	0.197	18.395	—	159/159
C 61 2/3	SK180A	9.449	1.260 <i>+0.0030</i> <i>+0.0020</i>	1.390	0.394 <i>+0.0014</i> <i>+0</i>	7.559	8.465	7.087	M12x19	0.197	18.395	—	159/159
C 61 2/3	SK180B	9.449	1.496 <i>+0.0030</i> <i>+0.0020</i>	1.626	0.394 <i>+0.0014</i> <i>+0</i>	7.559	8.465	7.087	M12x19	0.197	18.395	—	146/146

		Mt [lb-in]	D	E	F	G	M	N	N1	N2	N4	X	2/3x	P	lbs
C 61 4	SC80B	M6 133	4.724	0.610	0.571	0.699	0.551 <i>+0.0013</i> <i>+0.0006</i>	3.780	3.937	3.150	M6x12	0.157	—	20.265	139/104
C 61 2/3/4	SC80C	M6 133	4.724	0.610	0.571	0.699	0.748 <i>+0.0016</i> <i>+0.0008</i>	3.780	3.937	3.150	M6x12	0.157	17.489	20.265	141/141/154
C 61 2/3/4	SC95A	M6 133	5.118	0.650	0.591	0.699	0.551 <i>+0.0013</i> <i>+0.0006</i>	4.016	4.528	3.740	M8x16	0.157	17.489	20.265	134/134/150
C 61 2/3/4	SC95B	M6 133	5.118	0.650	0.591	0.699	0.748 <i>+0.0016</i> <i>+0.0008</i>	4.016	4.528	3.740	M8x16	0.157	17.489	20.265	141/141/154
C 61 2/3/4	SC95C	M6 133	5.118	0.650	0.591	0.699	0.945 <i>+0.0016</i> <i>+0.0008</i>	4.016	4.528	3.740	M8x16	0.157	17.489	20.265	141/141/154
C 61 2/3/4	SC110A	M6 133	5.512	0.650	0.630	0.699	0.748 <i>+0.0013</i> <i>+0.0006</i>	4.724	5.118	4.331	M8x16	0.197	17.489	20.265	143/143/154
C 61 2/3/4	SC110B	M6 133	5.512	0.650	0.630	0.699	0.945 <i>+0.0016</i> <i>+0.0008</i>	4.724	5.118	4.331	M8x16	0.197	17.489	20.265	143/143/154
C 61 2/3/4	SC130A	M6 133	7.402	0.748	0.630	0.699	0.945 <i>+0.0016</i> <i>+0.0008</i>	5.591	6.496	5.118	M10x20	0.197	17.489	20.265	146/146/179
C 61 2/3	SC130B	M8 319	7.441	0.787	0.669	0.699	1.260 <i>+0.0020</i> <i>+0.0010</i>	6.299	6.496	5.118	M10x20	0.197	19.300	—	165/165
C 61 2/3	SC180A	M8 319	9.449	0.787	0.689	0.699	1.260 <i>+0.0020</i> <i>+0.0010</i>	7.559	8.465	7.087	M12x24	0.197	19.458	—	165/165
C 61 2/3	SC180B	M8 319	9.449	0.787	0.689	0.699	1.496 <i>+0.0020</i> <i>+0.0010</i>	7.559	8.465	7.087	M12x24	0.197	19.458	—	152/152

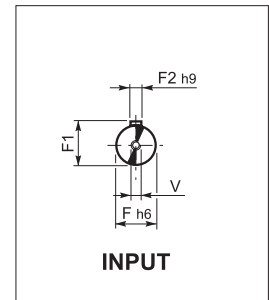
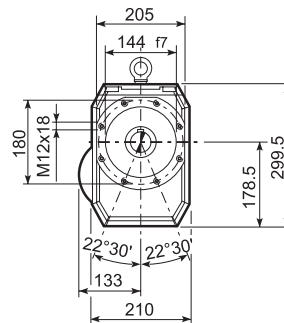
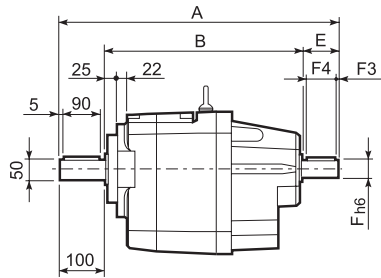


## C 61...HS

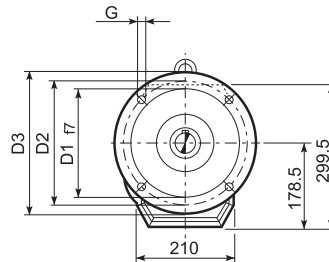
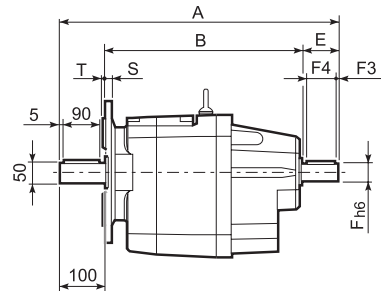
**P**



**U**



**UF**

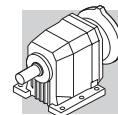


C 61_U						
	D1	D2	D3	G	T	S
FA	230	265	300	14	4	16
FB	250	300	350	18	5	18

Dimensões em mm

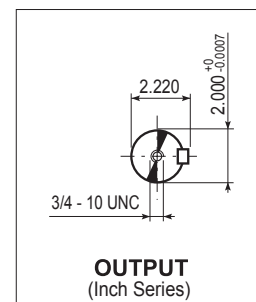
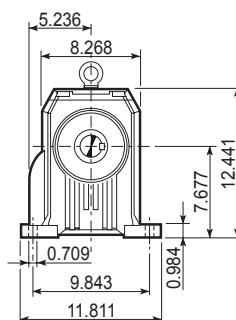
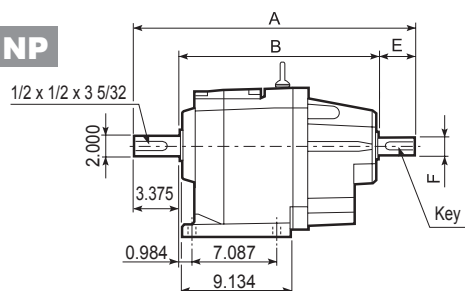
		A	B	E	F	F1	F2	F3	F4	V	Kg
C 61 2	HS	532	372	60	28	31	8	5	50	M10x22	66
C 61 3		532	372	60	28	31	8	5	50	M10x22	66
C 61 4		575	425	50	24	27	8	2.5	45	M8x19	72

Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

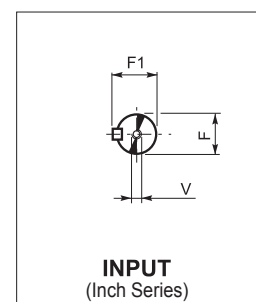
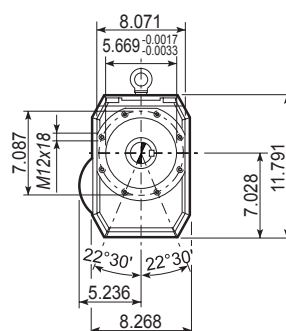
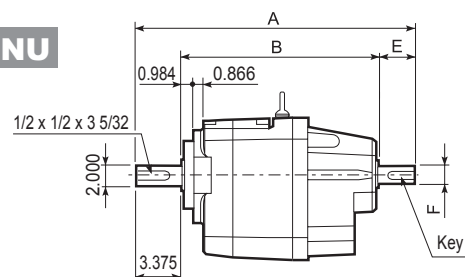


## C 61...NHS

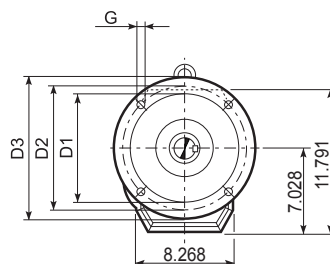
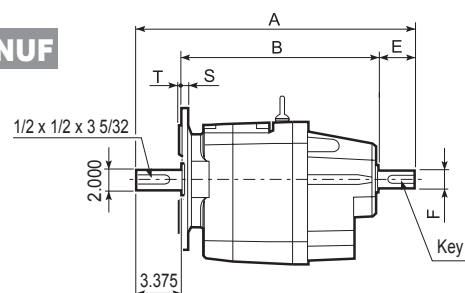
**NP**



**NU**



**NUF**

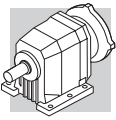


C 61 NU						
	D1	D2	D3	G	T	S
FA	9.055 <small>-0.0020 -0.0038</small>	10.433	11.811	0.551	0.157	0.630
FB	9.843 <small>-0.0020 -0.0038</small>	11.811	13.780	0.709	0.197	0.709

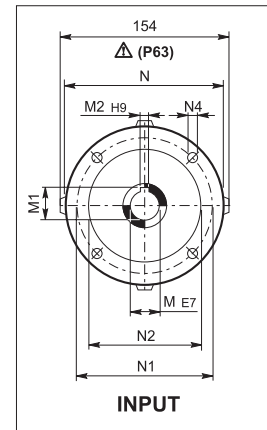
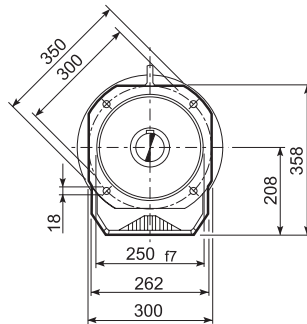
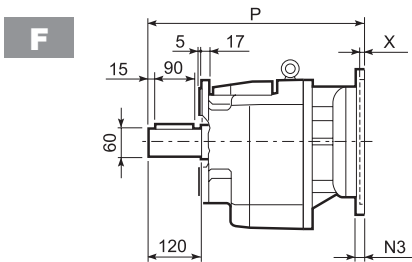
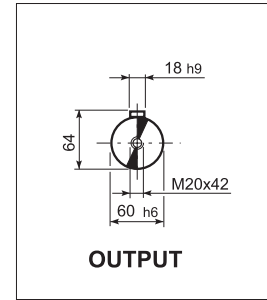
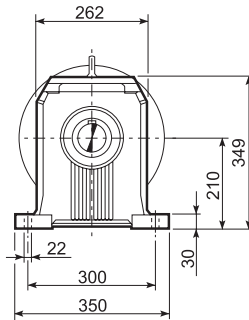
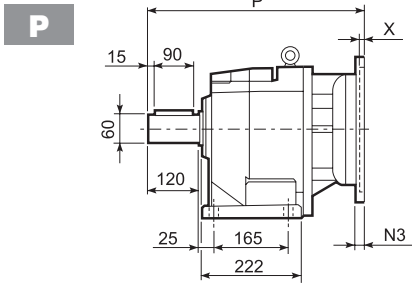
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		A	B	E	F	F1	V	Key	lbs
	NHS	20.383	14.646	2.362	1.125 <small>+0 -0.0005</small>	1.236	3/8 - 16 UNC	1/4 x 1/4 x 2 5/32	146
<b>C 61 2</b>		20.383	14.646	2.362	1.125 <small>+0 -0.0005</small>	1.236	3/8 - 16 UNC	1/4 x 1/4 x 2 5/32	146
<b>C 61 3</b>		22.076	16.732	1.969	1.000 <small>+0 -0.0005</small>	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	159

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS



## C 70...P(IEC)



Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	
C 70 2/3	P80	19	21.8	6	200	165	130	—	M10x12	4	473	88
C 70 2/3	P90	24	27.3	8	200	165	130	—	M10x12	4	473	88
C 70 2/3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	483	92
C 70 2/3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	483	92
C 70 2/3	P132	38	41.3	10	300	265	230	16	14	5	519.5	95
C 70 2/3	P160	42	45.3	12	350	300	250	23	18	6	575	107
C 70 2/3	P180	48	51.8	14	350	300	250	23	18	6	575	107
C 70 2	P200	55	59.3	16	400	350	300	—	M16x25	7	600	129
C 70 4	P63	11	12.8	4	140	115	95	—	M8x19	4	504.5	91
C 70 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	504.5	91
C 70 4	P80	19	21.8	6	200	165	130	—	M10x12	4	524	92
C 70 4	P90	24	27.3	8	200	165	130	—	M10x12	4	524	92
C 70 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	534	96
C 70 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	534	96
C 70 4	P132	38	41.3	10	300	265	230	16	14	5	570.5	98

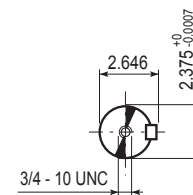
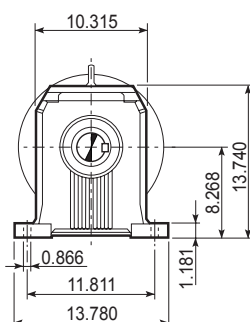
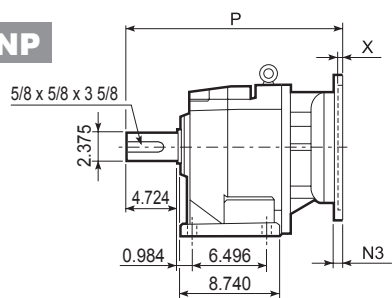
Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA





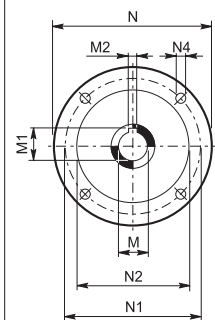
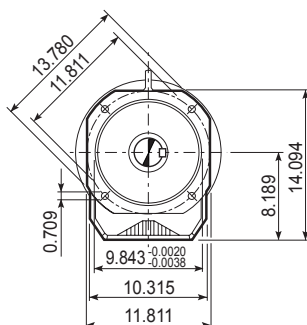
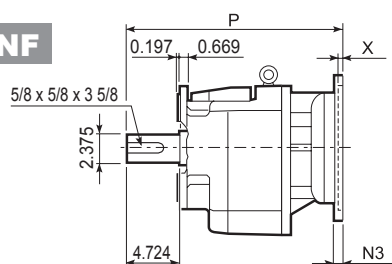
## C 70...N(NEMA Input)

**NP**



**OUTPUT**  
(Inch Series)

**NF**



**INPUT**  
(Nema flange)

Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

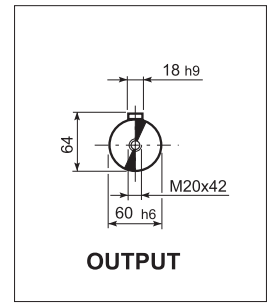
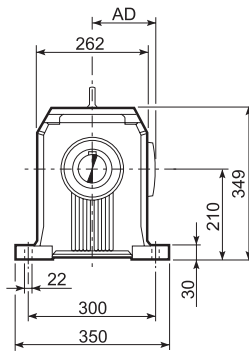
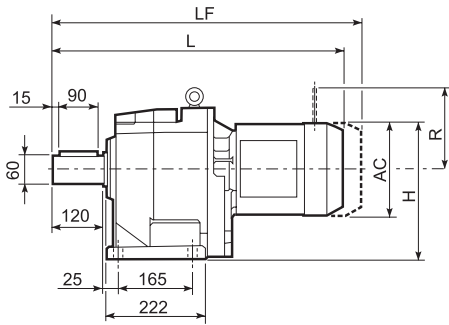
		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
		0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	18.819	194
<b>C 70 2/3</b>	<b>N140TC</b>	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.630	0.551	0.217	19.390	203
<b>C 70 2/3</b>	<b>N180TC</b>	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.531	0.531	0.217	20.630	209
<b>C 70 2/3</b>	<b>N210TC</b>	1.625 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.796	0.375 <sup>+0.0014</sup> / <sub>+0</sub>	13.780	7.250	8.500	—	0.551	0.217	23.622	266
<b>C 70 2</b>	<b>N250TC</b>	1.875 <sup>+0.0030</sup> / <sub>+0.0020</sub>	2.102	0.500 <sup>+0.0017</sup> / <sub>+0</sub>	13.740	10.500	9.000	—	0.551	0.217	23.819	269
<b>C 70 4</b>	<b>N56C</b>	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	20.650	201
<b>C 70 4</b>	<b>N140TC</b>	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	20.650	203
<b>C 70 4</b>	<b>N180TC</b>	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.630	0.551	0.217	21.398	212
<b>C 70 4</b>	<b>N210TC</b>	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.531	0.531	0.217	22.638	216

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

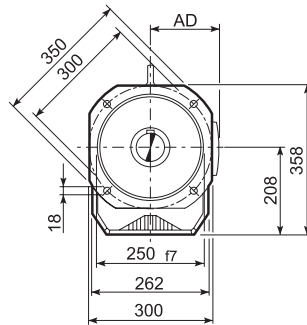
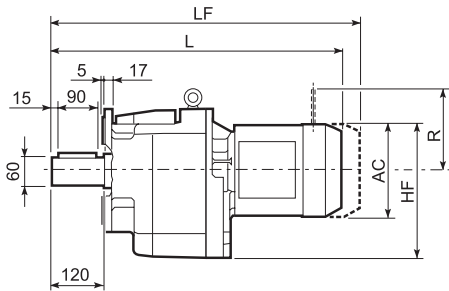


## C 70...M/ME

**P**



**F**

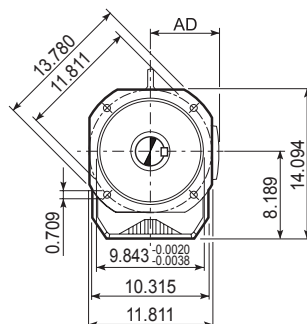
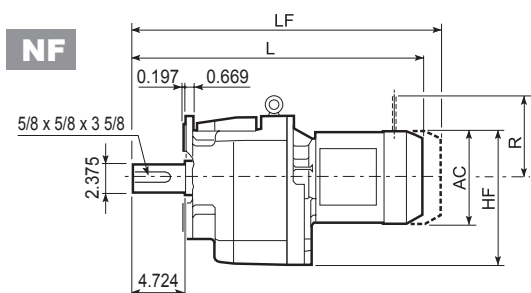
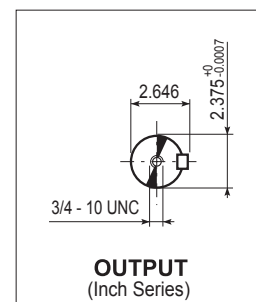
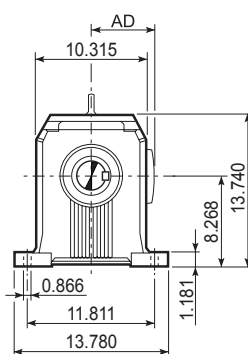
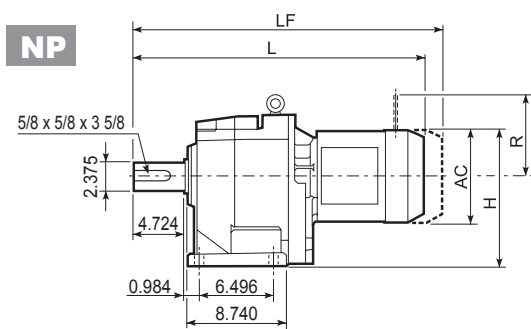


Dimensões em mm

			AC	H	HF	L	AD	Kg	M...FD M...FA		M...FD		M...FA	
									LF	Kg	R	AD	R	AD
C 70 2/3	S2	ME2S	156	288	286	636.5	119	88	—	—	—	—	—	—
C 70 2/3	S3	ME3S	195	307.5	305.5	680.5	142	94.5	—	—	—	—	—	—
C 70 2/3	S3	ME3L	195	307.5	305.5	712.5	142	101	—	—	—	—	—	—
C 70 2/3	S4	ME4	258	339	337	820.5	193	135	—	—	—	—	—	—
C 70 2/3	S4	ME4LB	258	339	337	855.5	193	143	—	—	—	—	—	—
C 70 2/3	S5	ME5S	310	365	363	907	245	163	—	—	—	—	—	—
C 70 2/3	S5	ME5L	310	365	363	951	245	179	—	—	—	—	—	—
C 70 4	S1	M1	138	279	277	659.5	108	88	720.5	91	103	135	124	108
C 70 4	S2	ME2S	156	288	286	687.5	119	92	—	—	—	—	—	—
C 70 4	S3	ME3S	195	307.5	305.5	731.5	142	98.5	—	—	—	—	—	—
C 70 4	S3	ME3L	195	307.5	305.5	763.5	142	104	—	—	—	—	—	—
C 70 4	S4	ME4	258	339	337	871.5	193	138	—	—	—	—	—	—
C 70 4	S4	ME4LB	258	339	337	906.5	193	146	—	—	—	—	—	—



## C 70...M/ME



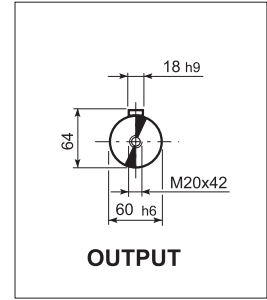
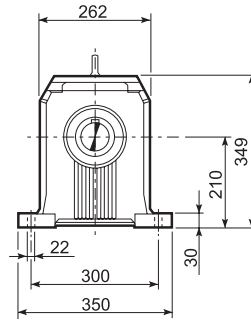
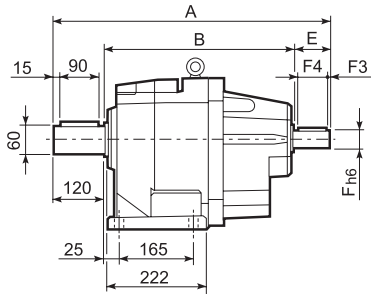
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

			AC	H	HF	L	AD	lbs	M...FD	lbs	M...FD		M...FA	
									LF		R	AD	R	AD
C 70 2/3	S2	ME2S	6.142	11.339	11.260	25.059	4.685	194	—	—	—	—	—	—
C 70 2/3	S3	ME3S	7.677	12.106	12.028	26.791	5.591	208	—	—	—	—	—	—
C 70 2/3	S3	ME3L	7.677	12.106	12.028	28.051	5.591	223	—	—	—	—	—	—
C 70 2/3	S4	ME4	10.157	13.346	13.268	32.303	7.598	298	—	—	—	—	—	—
C 70 2/3	S4	ME4LB	10.157	13.346	13.268	33.681	7.598	315	—	—	—	—	—	—
C 70 2/3	S5	ME5S	12.205	14.370	14.291	35.709	9.646	359	—	—	—	—	—	—
C 70 2/3	S5	ME5L	12.205	14.370	14.291	37.441	9.646	395	—	—	—	—	—	—
C 70 4	S1	M1	5.433	10.984	10.906	25.965	4.252	194	28.366	201	4.055	5.315	4.882	4.252
C 70 4	S2	ME2S	6.142	11.339	11.260	27.067	4.685	203	—	—	—	—	—	—
C 70 4	S3	ME3S	7.677	12.106	12.028	28.799	5.591	217	—	—	—	—	—	—
C 70 4	S3	ME3L	7.677	12.106	12.028	30.059	5.591	229	—	—	—	—	—	—
C 70 4	S4	ME4	10.157	13.346	13.268	34.311	7.598	304	—	—	—	—	—	—
C 70 4	S4	ME4LB	10.157	13.346	13.268	35.689	7.598	322	—	—	—	—	—	—

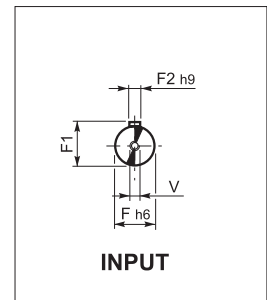
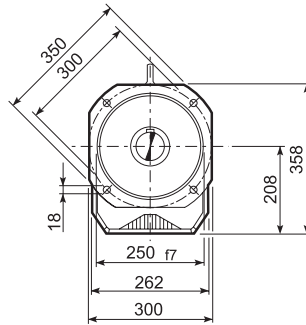
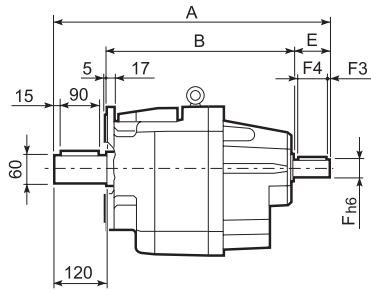


## C 70...HS

**P**



**F**



Dimensões em mm

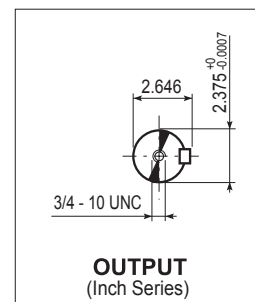
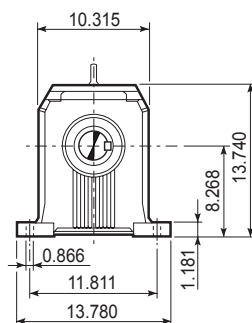
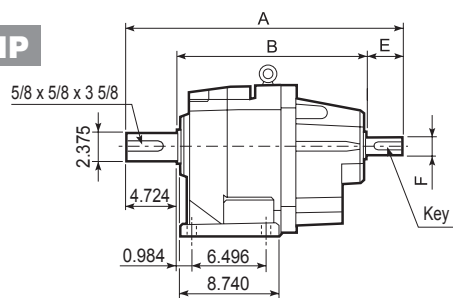
		A	B	E	F	F1	F2	F3	F4	V	Kg
<b>C 70 2</b>	<b>HS</b>	657.5	427.5	110	42	45	12	10	90	M12x28	108
<b>C 70 3</b>		657.5	427.5	110	42	45	12	10	90	M12x28	108
<b>C 70 4</b>		593.5	423.5	50	24	27	8	2.5	45	M8x19	94

Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS



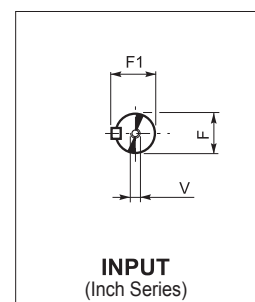
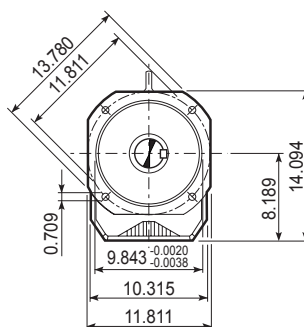
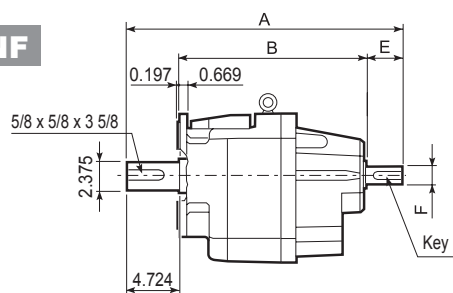
## C 70...NHS

**NP**



**OUTPUT**  
(Inch Series)

**NF**



**INPUT**  
(Inch Series)

Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

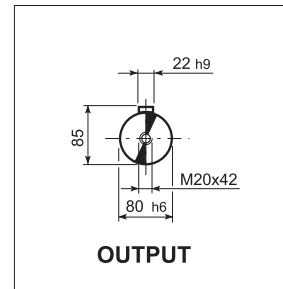
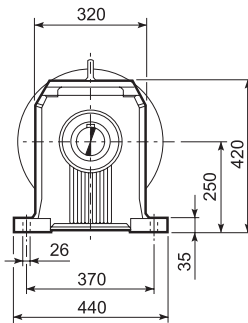
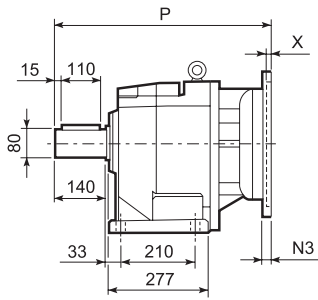
		A	B	E	F	F1	V	Key	lbs
	NHS	25.805	16.831	4.250	1.625 <sup>+0</sup> / <sub>-0.0006</sub>	1.791	5/8 - 11 UNC	3/8 x 3/8 x 4	238
<b>C 70 2</b>		25.805	16.831	4.250	1.625 <sup>+0</sup> / <sub>-0.0006</sub>	1.791	5/8 - 11 UNC	3/8 x 3/8 x 4	238
<b>C 70 3</b>		23.366	16.673	1.969	1.000 <sup>+0</sup> / <sub>-0.0005</sub>	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	207

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

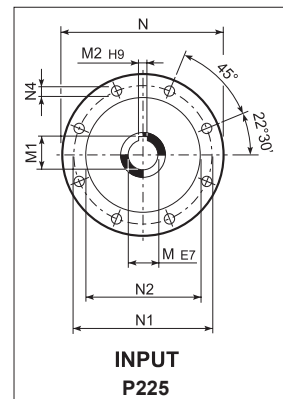
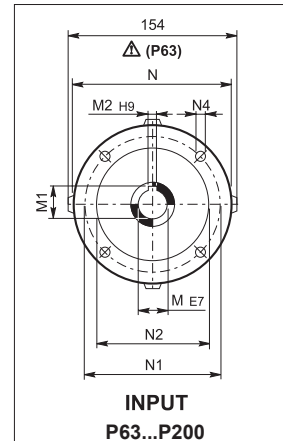
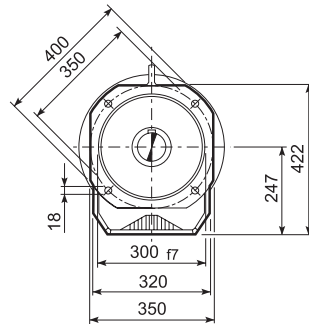
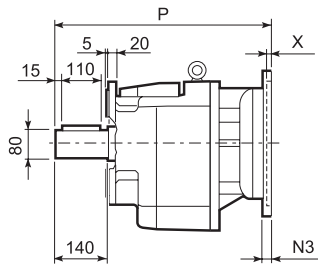


## C 80...P(IEC)

**P**



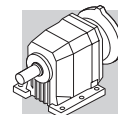
**F**



Dimensões em mm

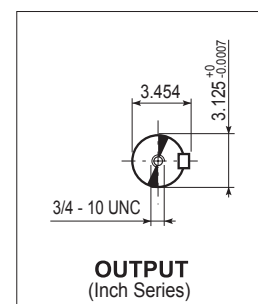
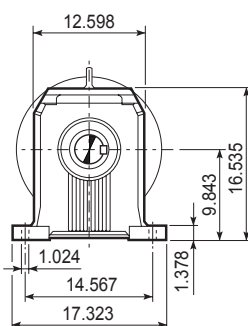
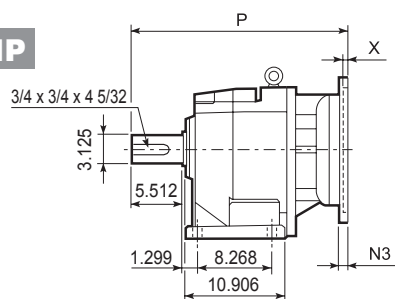
		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
C 80 2/3	P80	19	21.8	6	200	165	130	—	M10x12	4	533	135
C 80 2/3	P90	24	27.3	8	200	165	130	—	M10x12	4	533	135
C 80 2/3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	543	139
C 80 2/3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	543	139
C 80 2/3	P132	38	41.3	10	300	265	230	16	14	5	579.5	141
C 80 2/3	P160	42	45.3	12	350	300	250	23	18	6	635	154
C 80 2/3	P180	48	51.8	14	350	300	250	23	18	6	635	154
C 80 2	P200	55	59.3	16	400	350	300	—	M16x25	7	660	176
C 80 2	P225	60	64.4	18	450	400	350	25	18	6	705.5	178
C 80 4	P63	11	12.8	4	140	115	95	—	M8x19	4	576.5	138
C 80 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	576.5	138
C 80 4	P80	19	21.8	6	200	165	130	—	M10x12	4	596	140
C 80 4	P90	24	27.3	8	200	165	130	—	M10x12	4	596	140
C 80 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	606	144
C 80 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	606	144
C 80 4	P132	38	41.3	10	300	265	230	16	M12x16	5	642.5	146

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

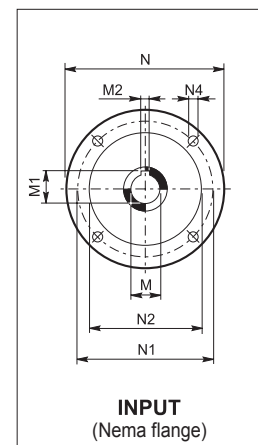
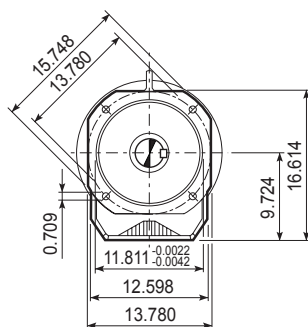
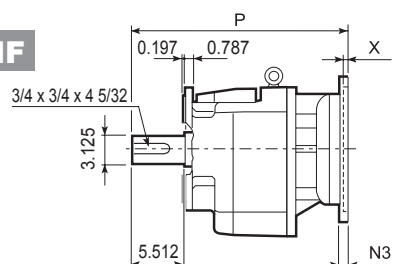


## C 80...N(NEMA Input)

**NP**



**NF**

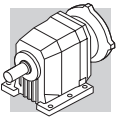


Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

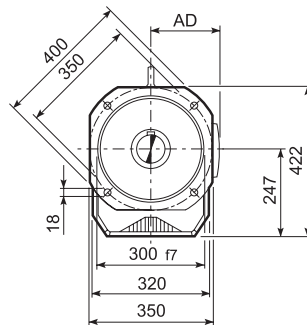
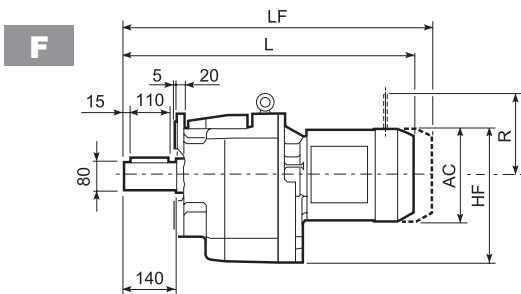
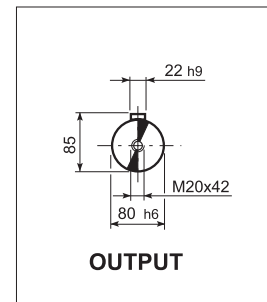
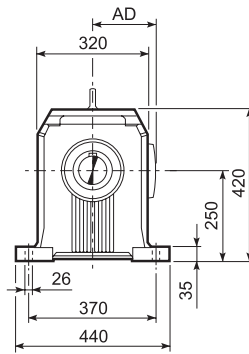
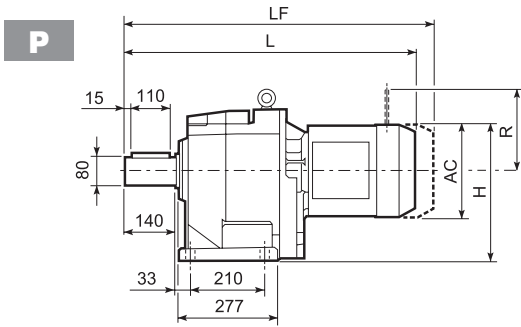
		M	M1	M2	N	N1	N2	N3	N4	X	P	
C 80 2/3	N180TC	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.630	0.551	0.217	21.752	306
C 80 2/3	N210TC	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.531	0.531	0.217	22.992	311
C 80 2/3	N250TC	1.625 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.796	0.375 <sup>+0.0014</sup> / <sub>+0</sub>	13.780	7.250	8.500	—	0.551	0.217	25.984	369
C 80 2	N280TC	1.875 <sup>+0.0030</sup> / <sub>+0.0020</sub>	2.102	0.500 <sup>+0.0017</sup> / <sub>+0</sub>	13.740	10.500	9.000	—	0.551	0.217	26.181	373
C 80 2	N320TC	2.125 <sup>+0.0035</sup> / <sub>+0.0024</sub>	2.350	0.500 <sup>+0.0017</sup> / <sub>+0</sub>	17.677	11.000	12.500	—	0.669	0.217	29.035	459
C 80 4	N56C	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	23.484	304
C 80 4	N140TC	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	23.484	309
C 80 4	N180TC	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.630	0.551	0.217	24.232	317
C 80 4	N210TC	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.531	0.531	0.217	25.472	322

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC



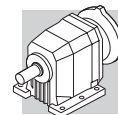


## C 80...M/ME

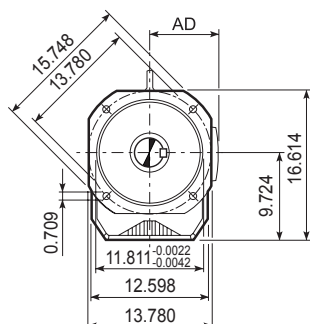
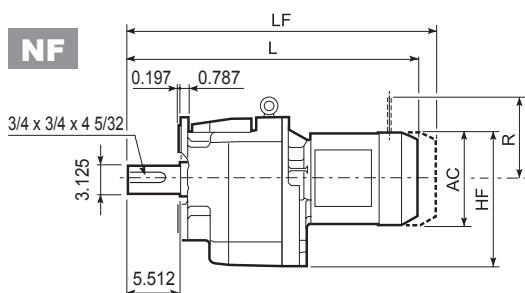
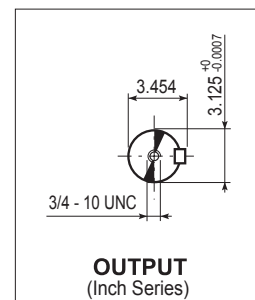
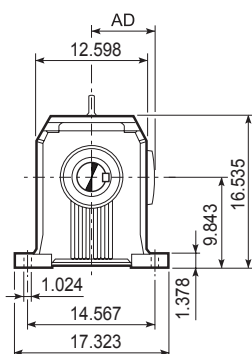
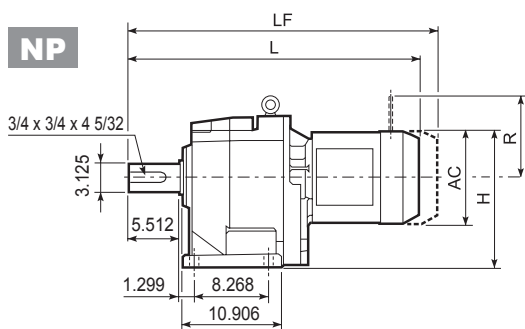


Dimensões em mm

			AC	H	HF	L	AD	Kg	M...FD M...FA		M...FD		M...FA	
									LF	Kg	R	AD	R	AD
C 80 2/3	S3	ME3S	195	347.5	344.5	742.5	142	140.5	—	—	—	—	—	—
C 80 2/3	S3	ME3L	195	347.5	344.5	774.5	142	146	—	—	—	—	—	—
C 80 2/3	S4	ME4	258	379	376	882.5	193	180	—	—	—	—	—	—
C 80 2/3	S4	ME4LB	258	379	376	917.5	193	188	—	—	—	—	—	—
C 80 2/3	S5	ME5S	310	405	402	969	245	208	—	—	—	—	—	—
C 80 2/3	S5	ME5L	310	405	402	1013	245	224	—	—	—	—	—	—
C 80 4	S1	M1	138	319	316	733.5	108	133	794.5	136	103	135	124	108
C 80 4	S2	ME2S	156	328	325	761.5	119	137	—	—	—	—	—	—
C 80 4	S3	ME3S	195	347.5	344.5	805.5	142	143.5	—	—	—	—	—	—
C 80 4	S3	ME3L	195	347.5	344.5	837.5	142	149	—	—	—	—	—	—
C 80 4	S4	ME4	258	379	376	945.5	193	183	—	—	—	—	—	—
C 80 4	S4	ME4LB	258	379	376	980.5	193	191	—	—	—	—	—	—

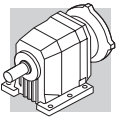


## C 80...M/ME



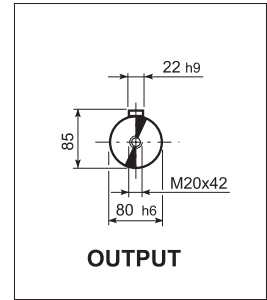
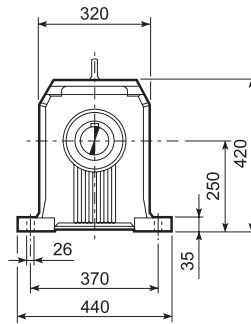
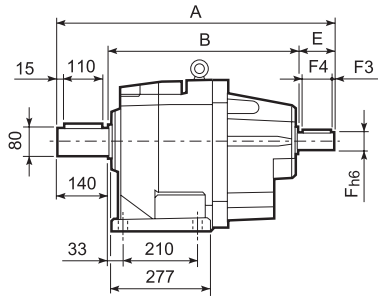
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

			AC	H	HF	L	AD	lbs	M...FD	M...FD		M...FA		
									M...FA	R	AD	R	AD	
C 80 2/3	S3	ME3S	7.677	13.681	13.563	29.232	5.591	310	—	—	—	—	—	
C 80 2/3	S3	ME3L	7.677	13.681	13.563	30.492	5.591	322	—	—	—	—	—	
C 80 2/3	S4	ME4	10.157	14.921	14.803	34.744	7.598	397	—	—	—	—	—	
C 80 2/3	S4	ME4LB	10.157	14.921	14.803	36.122	7.598	414	—	—	—	—	—	
C 80 2/3	S5	ME5S	12.205	15.945	15.827	38.150	9.646	459	—	—	—	—	—	
C 80 2/3	S5	ME5L	12.205	15.945	15.827	39.882	9.646	494	—	—	—	—	—	
C 80 4	S1	M1	5.433	12.559	12.441	28.878	4.252	293	31.280	300	4.055	5.315	4.882	4.252
C 80 4	S2	ME2S	6.142	12.913	12.795	29.980	4.685	302	—	—	—	—	—	—
C 80 4	S3	ME3S	7.677	13.681	13.563	31.713	5.591	316	—	—	—	—	—	—
C 80 4	S3	ME3L	7.677	13.681	13.563	32.972	5.591	328	—	—	—	—	—	—
C 80 4	S4	ME4	10.157	14.921	14.803	37.224	7.598	403	—	—	—	—	—	—
C 80 4	S4	ME4LB	10.157	14.921	14.803	38.602	7.598	421	—	—	—	—	—	—

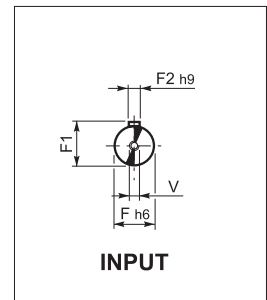
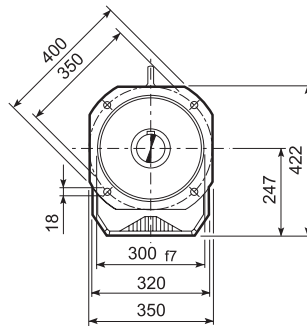
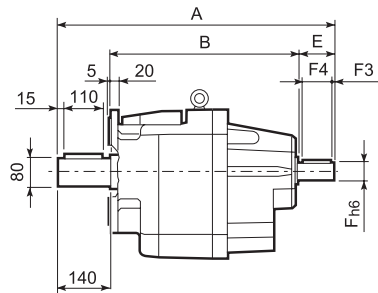


## C 80...HS

**P**



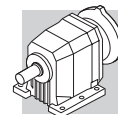
**F**



Dimensões em mm

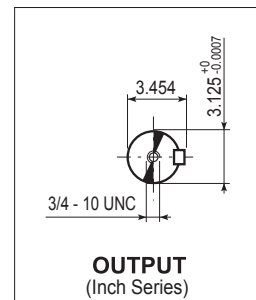
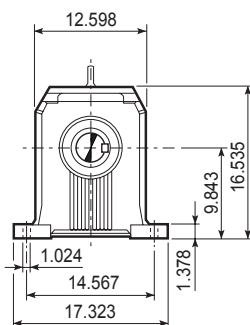
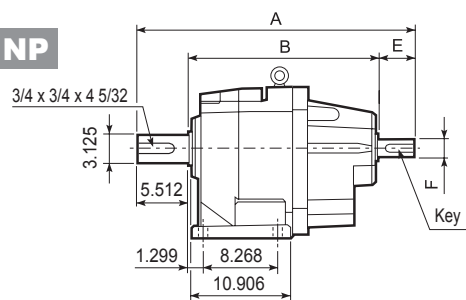
		A	B	E	F	F1	F2	F3	F4	V	Kg
<b>C 80 2</b>	HS	718.5	468.5	110	42	45	12	10	90	M12x28	154
<b>C 80 3</b>		718.5	468.5	110	42	45	12	10	90	M12x28	154
<b>C 80 4</b>		666.5	476.5	50	24	27	8	2.5	45	M8x19	141

Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS



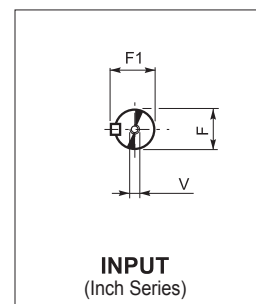
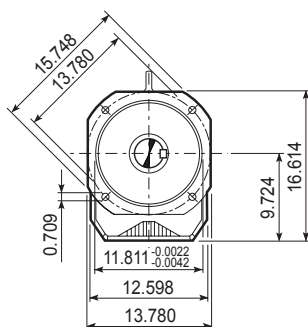
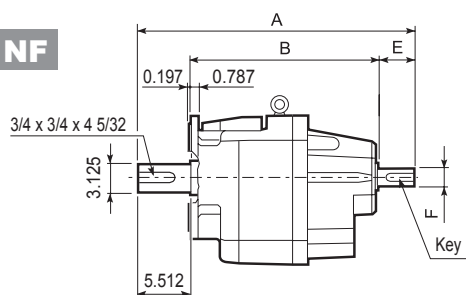
## C 80...NHS

**NP**



**OUTPUT**  
(Inch Series)

**NF**

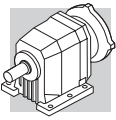


**INPUT**  
(Inch Series)

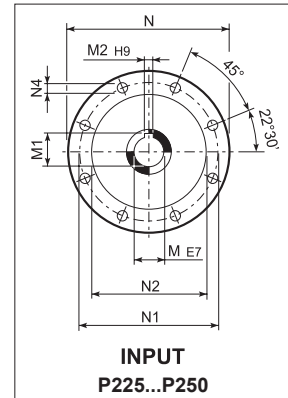
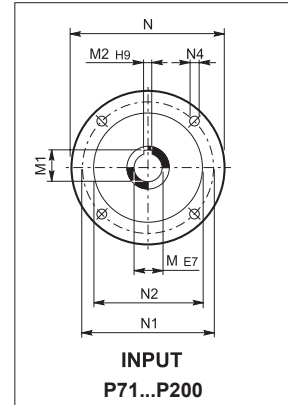
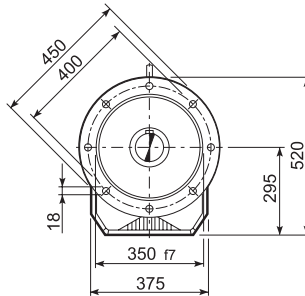
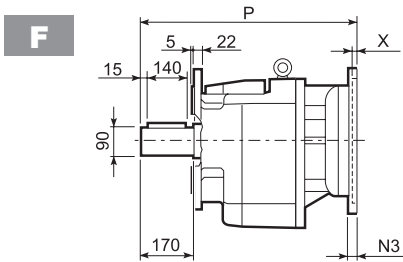
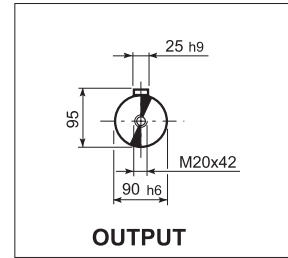
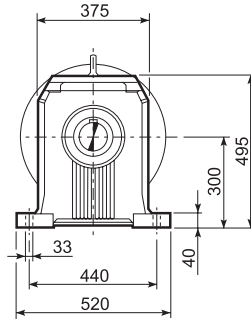
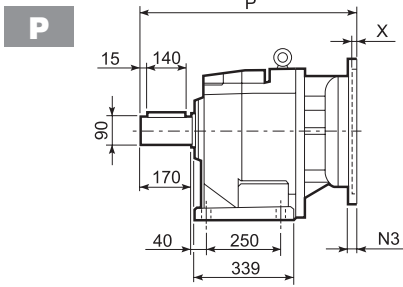
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		A	B	E	F	F1	V	Key	lbs
		28.207	18.445	4.250	1.625 $\begin{smallmatrix} +0 \\ -0.0006 \end{smallmatrix}$	1.791	5/8 - 11 UNC	3/8 x 3/8 x 4	340
<b>C 80 2</b>	<b>NHS</b>	28.207	18.445	4.250	1.625 $\begin{smallmatrix} +0 \\ -0.0006 \end{smallmatrix}$	1.791	5/8 - 11 UNC	3/8 x 3/8 x 4	340
<b>C 80 3</b>		26.240	18.760	1.969	1.000 $\begin{smallmatrix} +0 \\ -0.0005 \end{smallmatrix}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	311
<b>C 80 4</b>									

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS



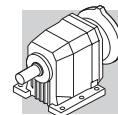
## C 90...P(IEC)



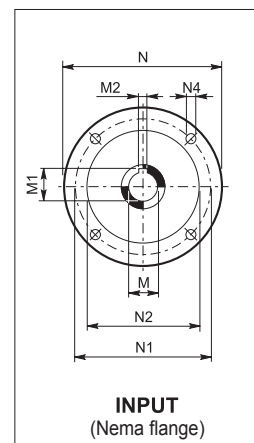
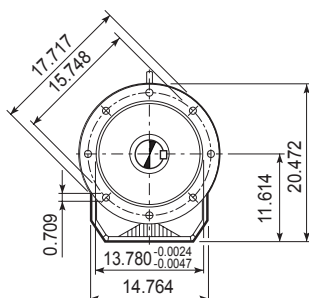
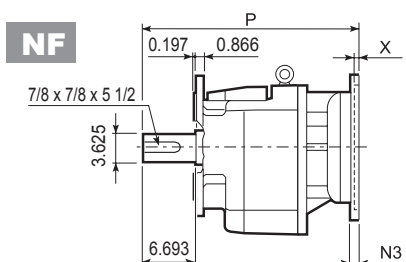
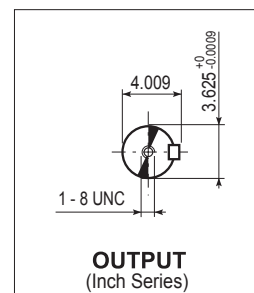
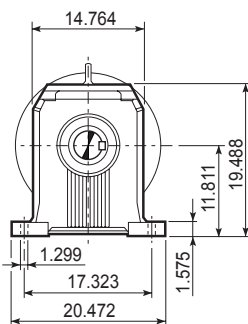
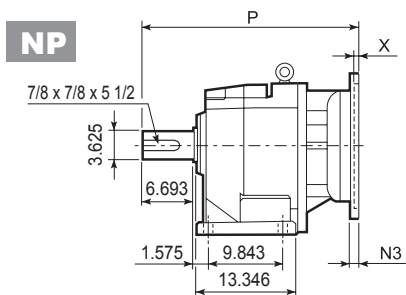
Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
C 90 2/3	P80	19	21.8	6	200	165	130	—	M10x12	4	644.5	229
C 90 2/3	P90	24	27.3	8	200	165	130	—	M10x12	4	644.5	229
C 90 2/3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	654.5	234
C 90 2/3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	654.5	234
C 90 2/3	P132	38	41.3	10	300	265	230	16	14	5	691	236
C 90 2/3	P160	42	45.3	12	350	300	250	23	18	6	746.5	251
C 90 2/3	P180	48	51.8	14	350	300	250	23	18	6	746.5	251
C 90 2/3	P200	55	59.3	16	400	350	300	—	M16x25	7	771.5	272
C 90 2/3	P225	60	64.4	18	450	400	350	30	18	6	817	273
C 90 2/3	P250	65	69.4	18	550	500	450	30	18	6	847	295
C 90 4	P63	11	12.8	4	140	115	95	—	M8x19	4	707.5	236
C 90 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	707.5	236
C 90 4	P80	19	21.8	6	200	165	130	—	M10x12	4	727	238
C 90 4	P90	24	27.3	8	200	165	130	—	M10x12	4	727	238
C 90 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	737	242
C 90 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	737	242
C 90 4	P132	38	41.3	10	300	265	230	16	14	5	773.5	244
C 90 4	P160	42	45.3	12	350	300	250	23	18	5.5	824	248
C 90 4	P180	48	51.8	14	350	300	250	23	18	5.5	824	248

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA



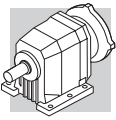
## C 90...N(NEMA Input)



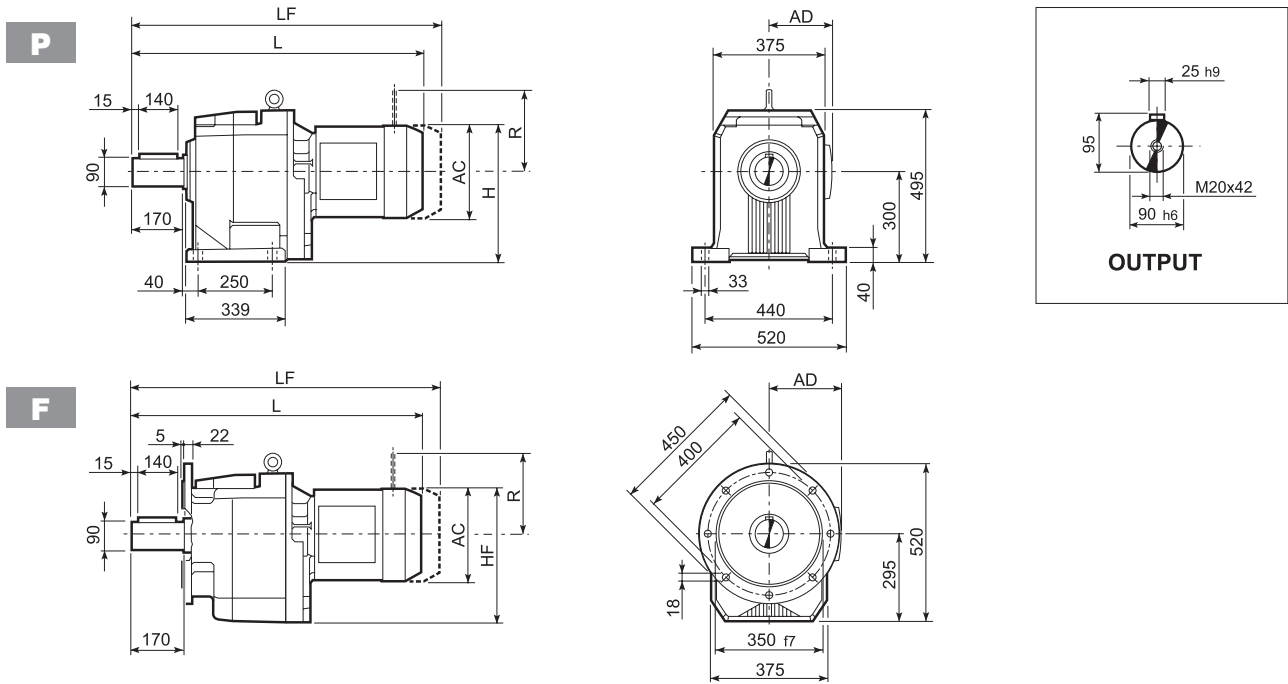
Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	
C 90 2/3	N180TC	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.630	0.551	0.217	26.142	516
C 90 2/3	N210TC	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.531	0.531	0.217	27.382	520
C 90 2/3	N250TC	1.625 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.796	0.375 <sup>+0.0014</sup> / <sub>+0</sub>	13.780	7.250	8.500	—	0.551	0.217	30.374	583
C 90 2/3	N280TC	1.875 <sup>+0.0030</sup> / <sub>+0.0020</sub>	2.102	0.500 <sup>+0.0017</sup> / <sub>+0</sub>	13.740	10.500	9.000	—	0.551	0.217	30.571	587
C 90 2/3	N320TC	2.125 <sup>+0.0035</sup> / <sub>+0.0024</sub>	2.350	0.500 <sup>+0.0017</sup> / <sub>+0</sub>	17.677	11.000	12.500	—	0.669	0.217	33.425	668
C 90 4	N56C	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	28.642	520
C 90 4	N140TC	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	28.642	525
C 90 4	N180TC	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.630	0.551	0.217	29.390	534
C 90 4	N210TC	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.531	0.531	0.217	30.630	538
C 90 4	N250TC	1.625 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.796	0.375 <sup>+0.0014</sup> / <sub>+0</sub>	13.780	7.250	8.500	—	0.551	0.217	33.425	577
C 90 4	N280TC	1.875 <sup>+0.0030</sup> / <sub>+0.0020</sub>	2.102	0.500 <sup>+0.0017</sup> / <sub>+0</sub>	13.740	10.500	9.000	—	0.551	0.217	33.622	580

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC



## C 90...M/ME



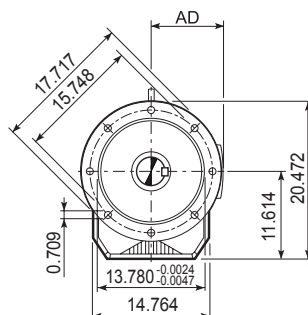
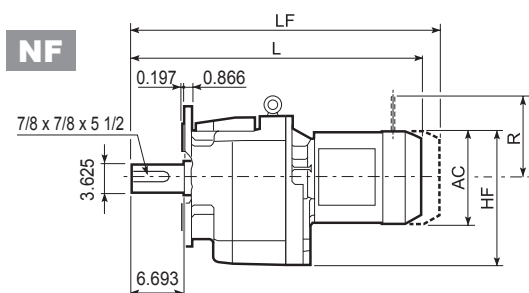
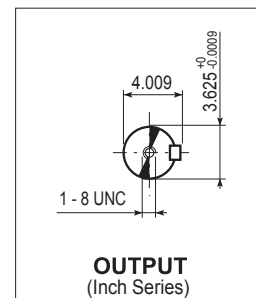
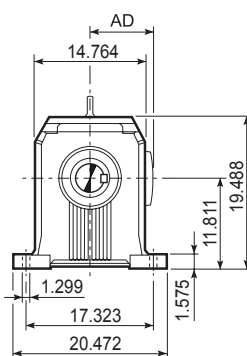
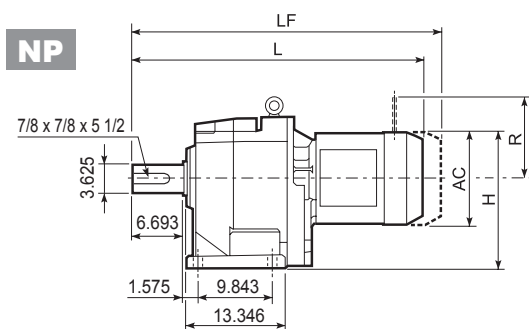
Dimensões em mm

			AC	H	HF	L	AD	Kg	M...FD M...FA		M...FD		M...FA	
									LF	Kg	R	AD	R	AD
C 90 2/3	S3	ME3S	195	397.5	392.5	852	142	229.5	—	—	—	—	—	—
C 90 2/3	S3	ME3L	195	397.5	392.5	884	142	236	—	—	—	—	—	—
C 90 2/3	S4	ME4	258	429	424	992	193	270	—	—	—	—	—	—
C 90 2/3	S4	ME4LB	258	429	424	1027	193	278	—	—	—	—	—	—
C 90 2/3	S5	ME5S	310	455	450	1078.5	245	298	—	—	—	—	—	—
C 90 2/3	S5	ME5L	310	455	450	1122.5	245	314	—	—	—	—	—	—
C 90 4	S1	M1	138	369	364	862	108	226	923	228	103	135	124	108
C 90 4	S2	M2S	156	378	373	891	119	234	962	238	129	146	134	119
C 90 4	S2	ME2S	156	378	373	891	119	234	—	—	—	—	—	—
C 90 4	S3	ME3S	195	397.5	392.5	935	142	240.5	—	—	—	—	—	—
C 90 4	S3	ME3L	195	397.5	392.5	967	142	246	—	—	—	—	—	—
C 90 4	S4	ME4	258	429	424	1075	193	280	—	—	—	—	—	—
C 90 4	S4	ME4LB	258	429	424	1126.5	193	288	—	—	—	—	—	—





## C 90...M/ME



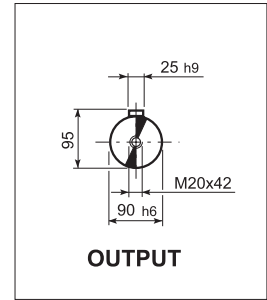
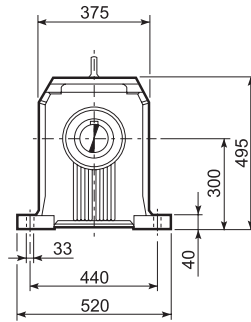
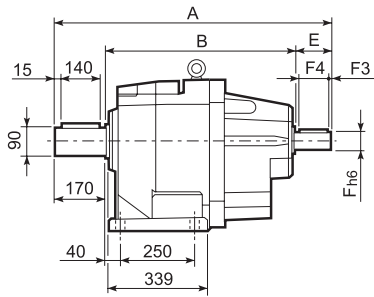
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

			AC	H	HF	L	AD	lbs	M...FD M...FA		M...FD		M...FA	
									LF	lbs	R	AD	R	AD
C 90 2/3	S3	ME3S	7.677	15.650	15.453	33.543	5.591	506	—	—	—	—	—	—
C 90 2/3	S3	ME3L	7.677	15.650	15.453	34.803	5.591	520	—	—	—	—	—	—
C 90 2/3	S4	ME4	10.157	16.890	16.693	39.055	7.598	595	—	—	—	—	—	—
C 90 2/3	S4	ME4LB	10.157	16.890	16.693	40.433	7.598	613	—	—	—	—	—	—
C 90 2/3	S5	ME5S	12.205	17.913	17.717	42.461	9.646	657	—	—	—	—	—	—
C 90 2/3	S5	ME5L	12.205	17.913	17.717	44.193	9.646	692	—	—	—	—	—	—
C 90 4	S1	M1	5.433	14.528	14.331	33.937	4.252	498	36.339	503	4.055	5.315	4.882	4.252
C 90 4	S2	M2S	6.142	14.882	14.685	35.079	4.685	516	37.874	525	5.079	5.748	5.276	4.685
C 90 4	S2	ME2S	6.142	14.882	14.685	35.079	4.685	516	—	—	—	—	—	—
C 90 4	S3	ME3S	7.677	15.650	15.453	36.811	5.591	530	—	—	—	—	—	—
C 90 4	S3	ME3L	7.677	15.650	15.453	38.071	5.591	542	—	—	—	—	—	—
C 90 4	S4	ME4	10.157	16.890	16.693	42.323	7.598	617	—	—	—	—	—	—
C 90 4	S4	ME4LB	10.157	16.890	16.693	44.350	7.598	635	—	—	—	—	—	—

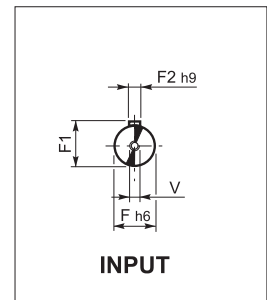
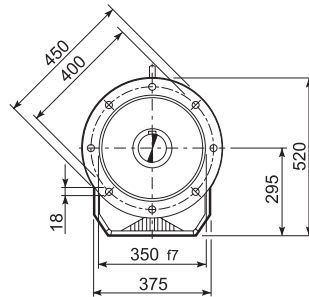
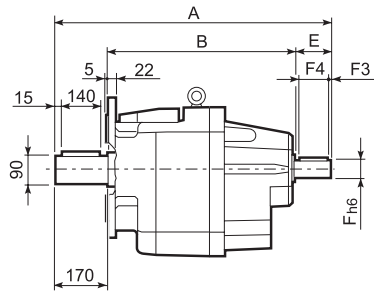


## C 90...HS

**P**



**F**



Dimensões em mm

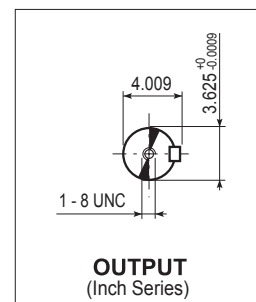
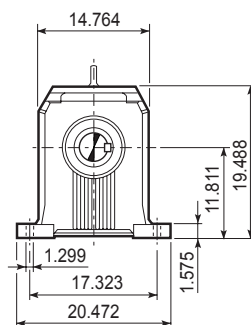
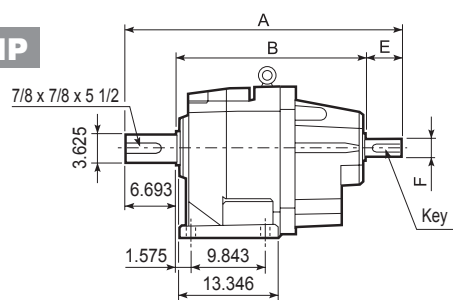
		A	B	E	F	F1	F2	F3	F4	V	Kg
<b>C 90 2</b>	HS	930.5	620.5	140	60	64	18	10	120	M16x36	273
<b>C 90 3</b>		930.5	620.5	140	60	64	18	10	120	M16x36	273
<b>C 90 4</b>		797	577	50	24	27	8	2.5	45	M8x19	240

Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

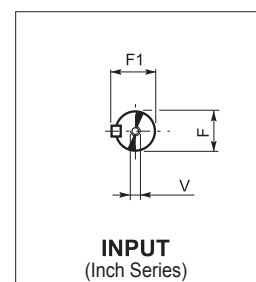
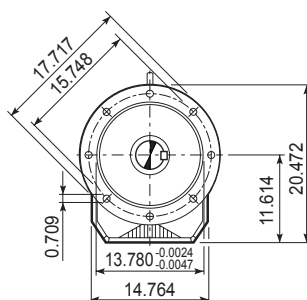
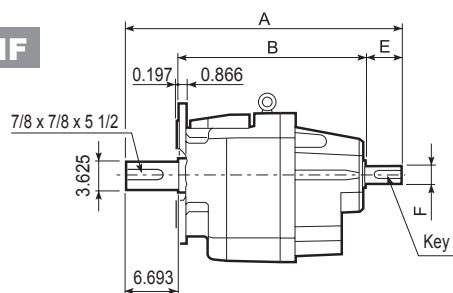


## C 90...NHS

**NP**



**NF**



Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

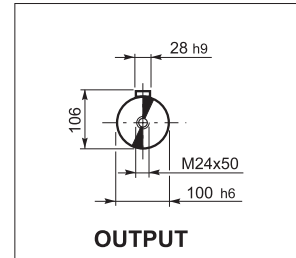
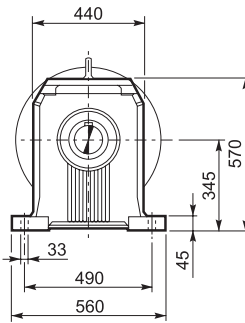
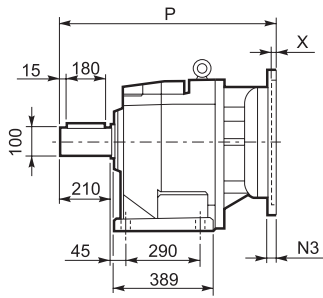
		A	B	E	F	F1	V	Key	lbs
	NHS	36.122	24.429	5.000	2.125 $\begin{smallmatrix} +0 \\ -0.0007 \end{smallmatrix}$	2.345	3/4 - 10 UNC	1/2 x 1/2 x 4 3/4	602
<b>C 90 2</b>		36.122	24.429	5.000	2.125 $\begin{smallmatrix} +0 \\ -0.0007 \end{smallmatrix}$	2.345	3/4 - 10 UNC	1/2 x 1/2 x 4 3/4	602
<b>C 90 3</b>		31.378	22.717	1.969	1.000 $\begin{smallmatrix} +0 \\ -0.0005 \end{smallmatrix}$	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	529

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

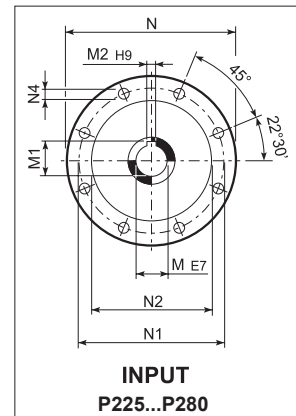
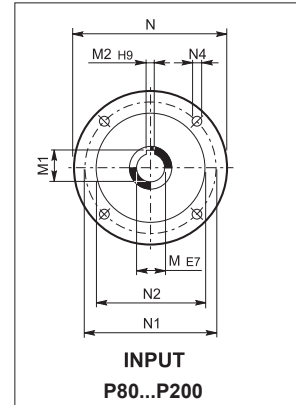
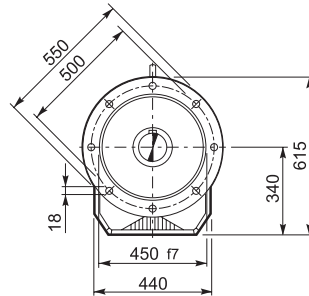
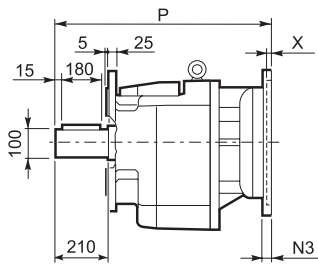


## C 100...P(IEC)

**P**



**F**



Dimensões em mm

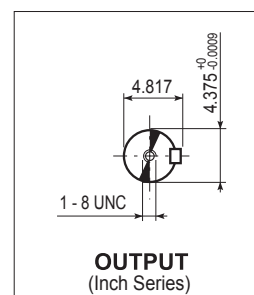
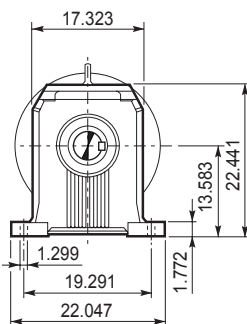
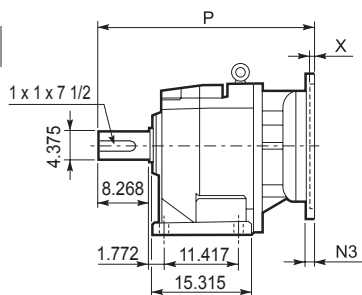
		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
C 100 2/3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	749.5	364
C 100 2/3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	749.5	364
C 100 2/3	P132	38	41.3	10	300	265	230	16	14	5	786	367
C 100 2/3	P160	42	45.3	12	350	300	250	23	18	6	841.5	382
C 100 2/3	P180	48	51.8	14	350	300	250	23	18	6	841.5	382
C 100 2/3	P200	55	59.3	16	400	350	300	—	M16x25	7	866.5	403
C 100 2/3	P225	60	64.4	18	450	400	350	30	18	7	912	403
C 100 2/3	P250	65	69.4	18	550	500	450	30	18	7	942	426
C 100 2/3	P280	75	79.9	20	550	500	450	30	18	6	942	426
C 100 4	P63	11	12.8	4	140	115	95	—	M8x19	4	803	369
C 100 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	803	369
C 100 4	P80	19	21.8	6	200	165	130	—	M10x12	4	822.5	371
C 100 4	P90	24	27.3	8	200	165	130	—	M10x12	4	822.5	371
C 100 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	832.5	375
C 100 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	832.5	375
C 100 4	P132	38	41.3	10	300	265	230	16	14	5	869	377
C 100 4	P160	42	45.3	12	350	300	250	23	18	5.5	919.5	381
C 100 4	P180	48	51.8	14	350	300	250	23	18	5.5	919.5	381

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA

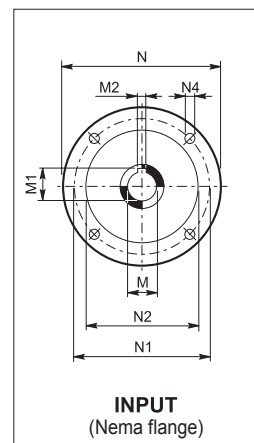
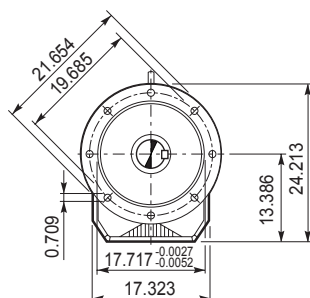
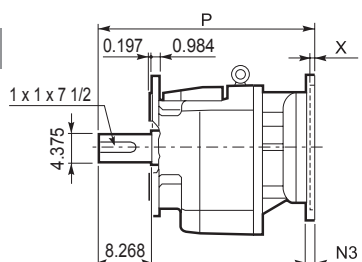


## C 100...N(NEMA Input)

**NP**



**NF**



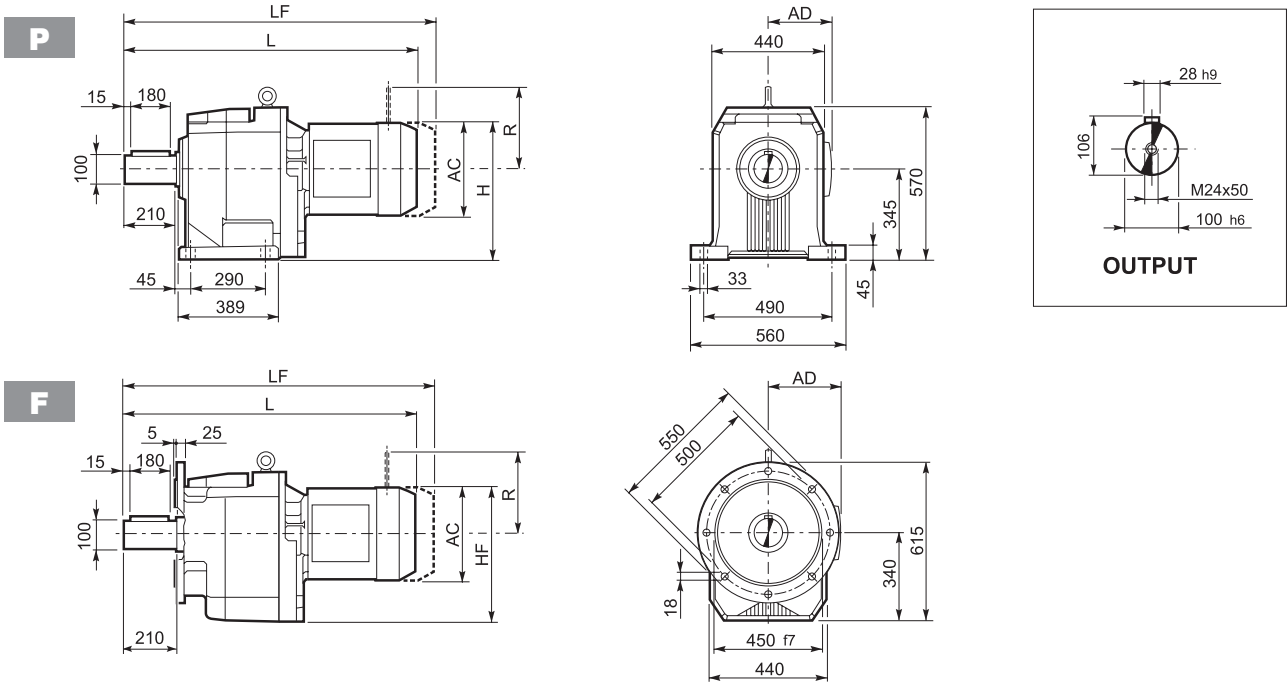
Dimensões em polegadas, exceto quando mostrados em *italico* [mm]

		M	M1	M2	N	N1	N2	N3	N4	X	P	
C 100 2/3	N210TC	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.531	0.531	0.217	31.122	809
C 100 2/3	N250TC	1.625 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.796	0.375 <sup>+0.0014</sup> / <sub>+0</sub>	13.780	7.250	8.500	—	0.551	0.217	34.114	872
C 100 2/3	N280TC	1.875 <sup>+0.0030</sup> / <sub>+0.0020</sub>	2.102	0.500 <sup>+0.0017</sup> / <sub>+0</sub>	13.740	10.500	9.000	—	0.551	0.217	34.311	875
C 100 2/3	N320TC	2.125 <sup>+0.0035</sup> / <sub>+0.0024</sub>	2.350	0.500 <sup>+0.0017</sup> / <sub>+0</sub>	17.677	11.000	12.500	—	0.669	0.217	37.165	955
C 100 4	N56C	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	32.402	813
C 100 4	N140TC	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	32.402	818
C 100 4	N180TC	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.630	0.551	0.217	33.150	827
C 100 4	N210TC	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.531	0.531	0.217	34.390	831
C 100 4	N250TC	1.625 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.796	0.375 <sup>+0.0014</sup> / <sub>+0</sub>	13.780	7.250	8.500	—	0.551	0.217	37.185	870
C 100 4	N280TC	1.875 <sup>+0.0030</sup> / <sub>+0.0020</sub>	2.102	0.500 <sup>+0.0017</sup> / <sub>+0</sub>	13.740	10.500	9.000	—	0.551	0.217	37.382	873




Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

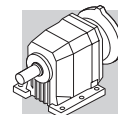


## C 100...M/ME

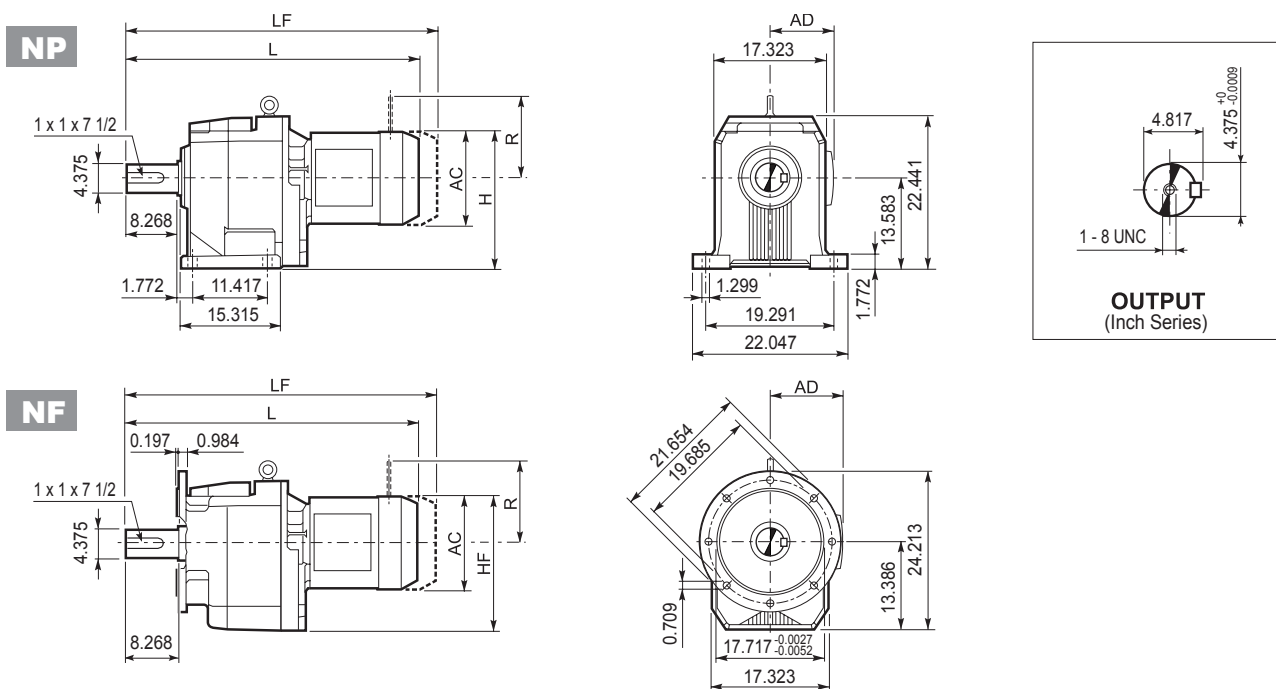


Dimensões em mm

  	AC	H	HF	L	AD	Kg	M...FD M...FA		M...FD		M...FA	
							LF	Kg	R	AD	R	AD
C 100 2/3 S4 ME4	258	474	469	1087	193	392	—	—	—	—	—	—
C 100 2/3 S4 ME4LB	258	474	469	1122	193	400	—	—	—	—	—	—
C 100 2/3 S5 ME5S	310	500	495	1173.5	245	420	—	—	—	—	—	—
C 100 2/3 S5 ME5L	310	500	495	1217.5	245	436	—	—	—	—	—	—
C 100 4 S1 M1	138	414	409	956.5	108	346	1027.5	348	103	135	124	108
C 100 4 S2 M2S	156	423	418	985.5	119	354	1056.5	357	129	146	134	119
C 100 4 S2 ME2S	156	423	418	985.5	119	354	—	—	—	—	—	—
C 100 4 S3 ME3S	195	442.5	437.5	1029.5	142	359.5	—	—	—	—	—	—
C 100 4 S3 ME3L	195	442.5	437.5	1061.5	142	366	—	—	—	—	—	—
C 100 4 S4 ME4	258	474	469	1169.5	193	400	—	—	—	—	—	—
C 100 4 S4 ME4LB	258	474	469	1204.5	245	408	—	—	—	—	—	—



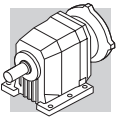
## C 100...M/ME



Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

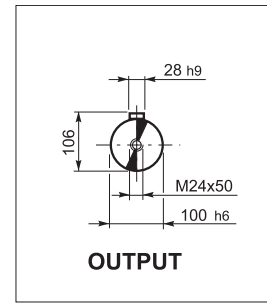
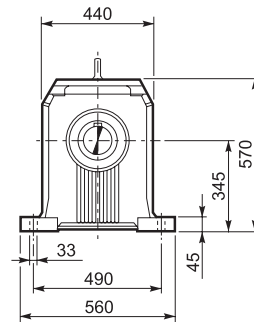
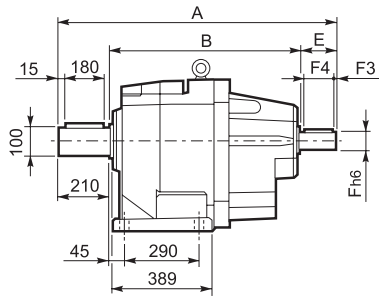
			AC	H	HF	L	AD	lbs	M...FD M...FA		M...FD		M...FA	
									LF	lbs	R	AD	R	AD
C 100 2/3	S4	ME4	10.157	18.661	18.465	42.795	7.598	864	—	—	—	—	—	—
C 100 2/3	S4	ME4LB	10.157	18.661	18.465	44.173	7.598	882	—	—	—	—	—	—
C 100 2/3	S5	ME5S	12.205	19.685	19.488	46.201	9.646	926	—	—	—	—	—	—
C 100 2/3	S5	ME5L	12.205	19.685	19.488	47.933	9.646	961	—	—	—	—	—	—
C 100 4	S1	M1	5.433	16.299	16.102	37.657	4.252	763	40.453	767	4.055	5.315	4.882	4.252
C 100 4	S2	M2S	6.142	16.654	16.457	38.799	4.685	780	41.594	787	5.079	5.748	5.276	4.685
C 100 4	S2	ME2S	6.142	16.654	16.457	38.799	4.685	780	—	—	—	—	—	—
C 100 4	S3	ME3S	7.677	17.421	17.224	40.531	5.591	793	—	—	—	—	—	—
C 100 4	S3	ME3L	7.677	17.421	17.224	41.791	5.591	807	—	—	—	—	—	—
C 100 4	S4	ME4	10.157	18.661	18.465	46.043	7.598	882	—	—	—	—	—	—
C 100 4	S4	ME4LB	10.157	18.661	18.465	47.421	7.598	899	—	—	—	—	—	—



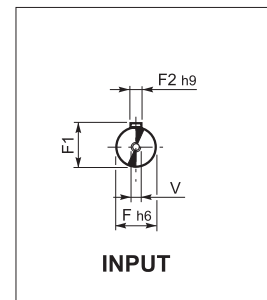
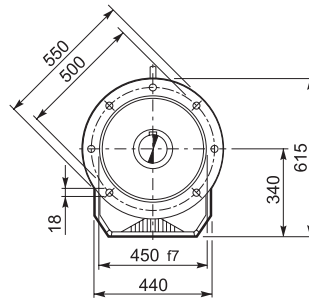
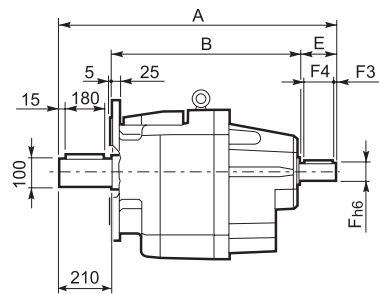


## C 100...HS

**P**



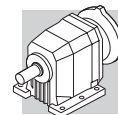
**F**



Dimensões em mm

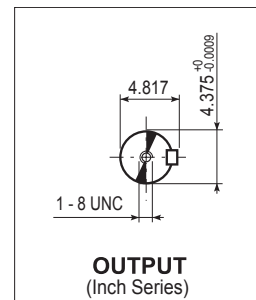
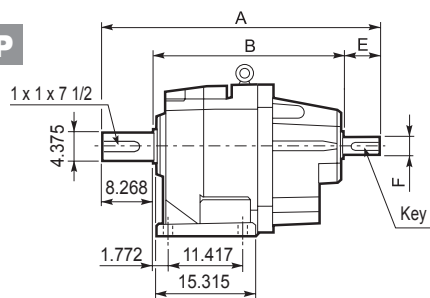
		A	B	E	F	F1	F2	F3	F4	V	kg
<b>C 100 2</b>	<b>HS</b>	1025.5	676	140	60	64	18	10	120	M16x36	409
<b>C 100 3</b>		1025.5	676	140	60	64	18	10	120	M16x36	409
<b>C 100 4</b>		892	632	50	24	27	8	2.5	45	M8x19	372

Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

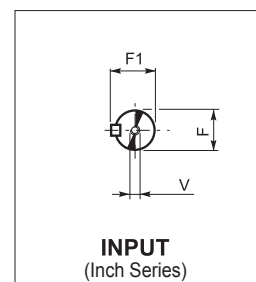
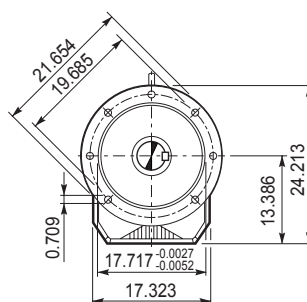
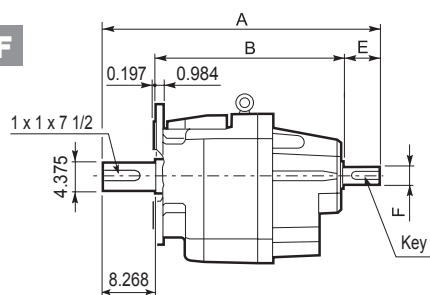


## C 100...NHS

**NP**



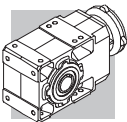
**NF**



Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		A	B	E	F	F1	V	Key	lbs
	NHS	39.862	26.594	5.000	2.125 <sup>+0</sup> / <sub>-0.0007</sub>	2.345	3/4 - 10 UNC	1/2 x 1/2 x 4 3/4	902
		39.862	26.594	5.000	2.125 <sup>+0</sup> / <sub>-0.0007</sub>	2.345	3/4 - 10 UNC	1/2 x 1/2 x 4 3/4	902
		35.118	24.882	1.969	1.000 <sup>+0</sup> / <sub>-0.0005</sub>	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	820

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS



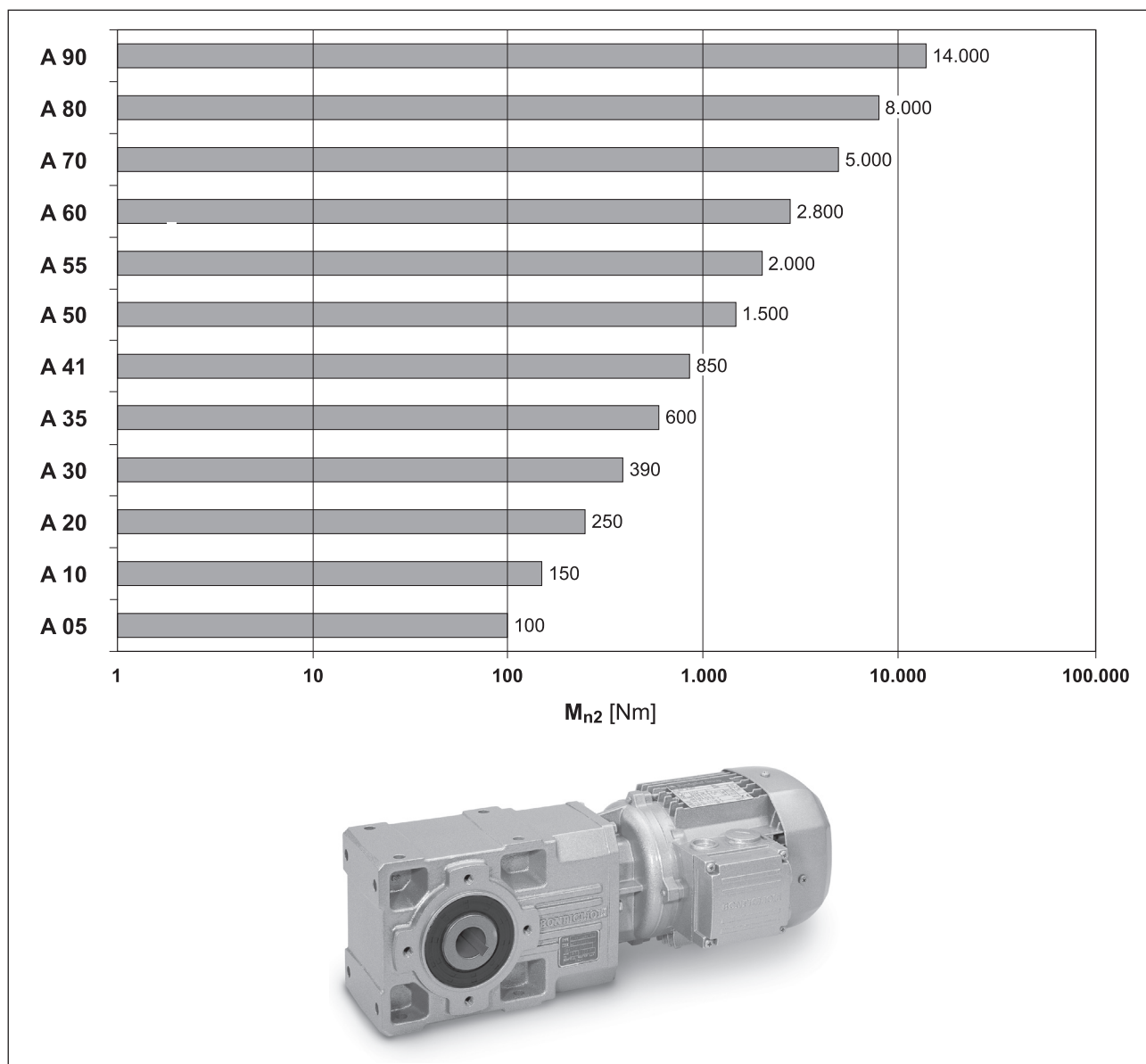
## REDUTORES ORTOGONAIS SÉRIE A

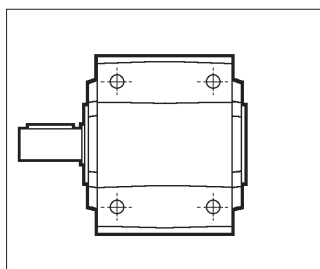
### 31 CARACTERÍSTICAS DE PROJETO

As principais características de projeto são:

- modularidade
- eficiência de espaço
- montagem universal
- alta eficiência
- operação silenciosa
- engrenagens em aço temperado e aço cementado
- caixa de alumínio bruto para os tamanhos 05, 10, 20, 30, sem pintura
- caixas em ferro fundido de alta resistência pintadas para tamanhos de quadro maiores
- eixos de entrada e saída feitos com aço de alta qualidade.

(C 26)

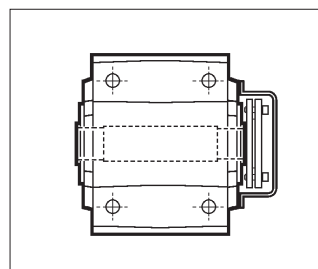




**UR / NUR**

Eixo de saída com extensão única

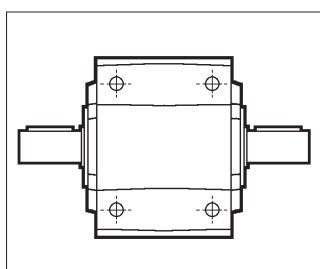
A 10 ... A 90



**US**

Eixo de saída oco e disco de contração

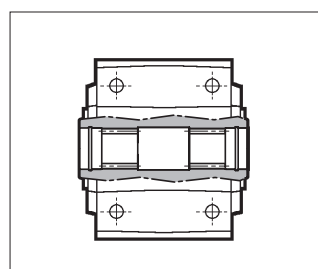
A 05 ... A 90



**UD / NUD**

Eixo de saída com extensão dupla

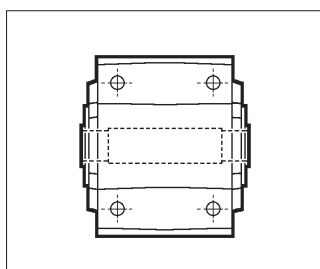
A 10 ... A 90



**UV**

Eixo oco estriado DIN 5480

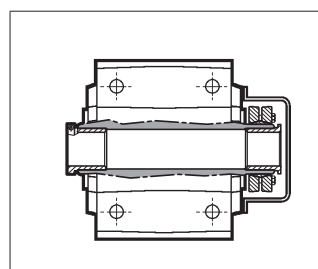
A 20 ... A 60



**UH / NUH**

Eixo de saída oco e chaveta

A 05 ... A 90



**QF / NQF  
(Quick-fit)**

Eixo oco de encaixe rápido com buchas adaptadoras e disco de contração

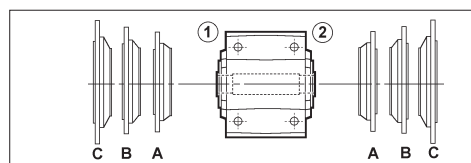
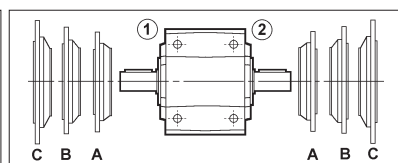
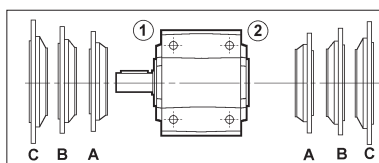
A 10 ... A 60

$M_{n2\ max}$ [Nm]	
A 35 QF35	550
A 35 NQF 1-3/8	
A 55 QF55	1900

**Versões básicas com flange parafusado**

Os desenhos mostram os flanges aplicáveis às versões básicas e suas posições ①, ②.

**UR/NUR F1... UR/NUR F2... UD/NUD F1... UD/NUD F2... UH/NUH... F1... UH/NUH... F2...**



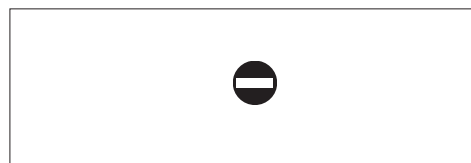
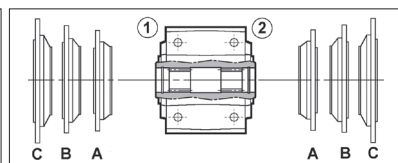
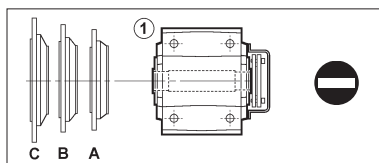
**US F1...**

**US F2...**

**UV F1...**

**UV F2...**

**QF/NQF...**





### 33 DESIGNAÇÃO

#### REDUTORES

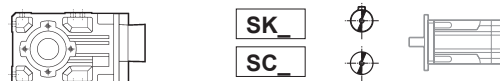
**A 35 2 UH F1A 49.1 S1 VA .....**

OPÇÕES

POSIÇÃO DE MONTAGEM

**B3** (Padrão), **B6, B7, B8, VA, VB**

CONFIGURAÇÃO DE ENTRADA



RELAÇÃO DE TRANSMISSÃO

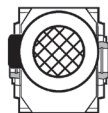
TAMANHO E POSIÇÃO DO FLANGE DE SAÍDA  
(especificar somente se solicitado)

**F** = Versão com flange

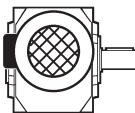
**1, 2** = Posição do flange

**A, B, C** = Tamanho do flange

VERSÃO

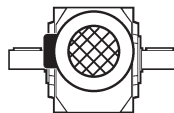


**UH\_ / NUH**



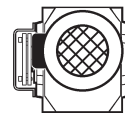
**UR / NUR**

(A 10...A 90)



**UD / NUD**

(A 10...A 90)



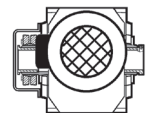
**US**

(A 05...A 90)



**UV**

(A 20...A 60)



**QF / NQF**

(A 10...A 60)

A 05	A 10	A 20	A 30	A 35	A 41	A 50	A 55	A 60	A 70	A 80	A 90
UH25	UH25	UH30	UH35	UH40	UH45	UH50	UH60	UH60	UH70	UH80	UH90
—	UH30	UH35	UH40	UH35	UH40	UH55	UH50	UH70	UH80	UH90	UH100

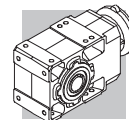
REDUÇÕES

**2** (A 05...A 60), **3** (A 20...A 90), **4** (A 50...A 90)

TAMANHO DO REDUTOR

**05, 10, 20, 30, 35, 41, 50, 55, 60, 70, 80, 90**

TIPO: **A** = Redutores ortogonais



MOTOR

FREIO

**M 1LA 4 230/400-60 IP54 CLF ..... W FD 7.5 R SB 220 SA .....**

OPÇÕES

ALIMENTAÇÃO  
DO FREIO

TIPO DE RETIFICADOR  
AC/DC  
**NB, SB, NBR, SBR**

LIBERAÇÃO MANUAL DO FREIO  
**R, RM**

TORQUE DE FRENAGEM

TIPO DE FREIO  
**FD** (freio d.c.)  
**FA** (freio a.c.)

POSIÇÃO DA CAIXA DE TERMINAIS  
**W** (padrão), **N, E, S**

MONTAGEM DO MOTOR  
— (motor compacto)  
**B5** (motor - IEC)

CLASSE DE ISOLAMENTO  
**CL F** padrão  
**CL H** opção

GRAU DE PROTEÇÃO  
**IP55** padrão (**IP56** opção)  
**IP54, IP55** freio motor

TENSÃO - FREQUÊNCIA

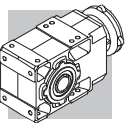
NÚMERO DE POLOS  
**2, 4, 6**

TAMANHO DO MOTOR  
**0B ... 5LA** (motor compacto)  
**63A ... 280M** (motor IEC)

TIPO DE MOTOR

**ME** = trifásico compacto, classe IE2    **M** = trifásico compacto  
**BE** = IEC trifásico, classe IE2        **BN** = trifásico IEC

**NEMA** = Trifásico a ser especificado conforme ordem



### 33.1 Opções de redutor

#### AL, AR

A pedido, o redutor pode ser fornecido completo com um dispositivo contrarrecuo que permite que o eixo de saída gire somente no sentido especificado no pedido. A tabela abaixo mostra os redutores em que o dispositivo contrarrecuo pode ser instalado. O dispositivo contrarrecuo exclui a opção RB.

(C 27)

<b>A 30 2*</b>	<b>A 35 2*</b> ● (5.4_11.8)	<b>A 41 2</b> ● (5.2; 10.1)	<b>A 50 3</b>	<b>A 55 3</b>	<b>A 60 3</b>	<b>A 70 3</b>	<b>A 80 3</b>	<b>A 90 3</b>
			<b>A 50 4</b>	<b>A 55 4</b>	<b>A 60 4</b>	<b>A 70 4</b>	<b>A 80 4</b>	<b>A 90 4</b>

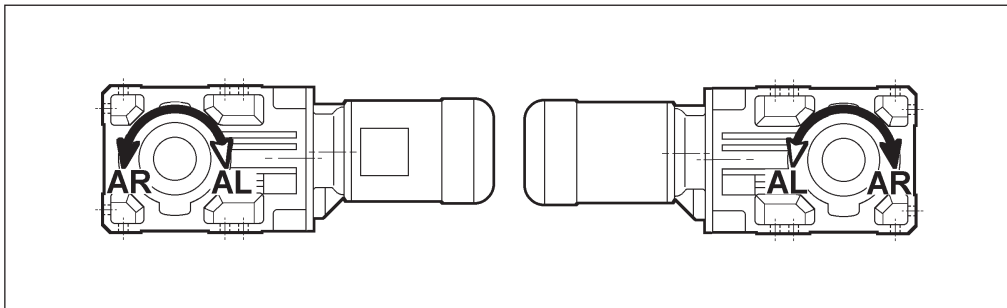
\* O fornecimento do contrarrecuo impedirá a configuração dos adaptadores de servomotor tipos S\_60A, S\_60B, S\_80A.

Ao encomendar o redutor, o sentido da rotação livre deve ser especificado através das opções AR ou AL (Tabela C27).



Obs: Quando o dispositivo contrarrecuo operar com muita frequência, certifique-se de que o torque de retorno do redutor não exceda 70% do torque nominal  $M_{n2}$  do redutor em questão.

(C 28)



#### SO

Os redutores A05, A10, A20, A30, A35 e A41, geralmente já preenchidos com óleo, são, neste caso, fornecidos sem lubrificação.

#### LO

Os redutores A50, A55, A60, A70, A80 e A90, geralmente fornecidos sem óleo, devem ser preenchidos com o óleo sintético atualmente usado pela BONFIGLIOLI RIDUTTORI de acordo com a posição de montagem especificada.

#### DV

Retenores de óleo duplos no eixo de entrada. (Disponível apenas para motorredutores integrais).

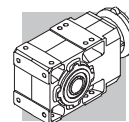
#### VV

Retentor de óleo em fluorelastômero no eixo de entrada.

#### PV

Todos os retenores de óleo no material fluorelastômero.





### TKL

Vedações do tipo Taconite estão disponíveis para eixos de saída de redutores tamanhos A70 até A90, para uso em ambientes caracterizados pela presença de poeira ou pós abrasivos. Vedações Taconite incorporam uma combinação de anéis de vedação, labirintos e câmaras de graxa. Lubrificação deve ser assegurada como parte do programa de manutenção programada. Esta opção inclui retentores de óleo em fluorelastômero em todos os eixos.

Para a posição de montagem B6, consulte a Assistência Técnica Bonfiglioli.

### HDB

Alguns redutores estão disponíveis com maiores classificações de carga radial para uso em aplicações caracterizadas por altas cargas radiais além da capacidade dos redutores padrão. Especifique a opção HDB ao fazer o pedido para obter esta maior capacidade de carga radial. A opção HDB está disponível para redutores tamanhos A10 até A50 com um eixo de saída unilateral ou eixo de saída sólido. A tabela a seguir especifica as cargas máximas para as versões de redutores reforçadas com HDB. Os dados referem-se às forças ao longo da linha central do eixo de saída.

(C 29)

HDB	R <sub>N2</sub>					
	A 10	A 20	A 30	A 35	A 41	A 50
n1 = 1800	5500 N	6200 N	9600 N	12000 N	15000 N	20000 N
n1 = 1200	5500 N	6200 N	9600 N	12000 N	15000 N	20000 N

Rolamentos reforçados também permitem que estas versões suportem cargas axiais mais altas, e especificamente

$$A_{N2} = 0.35 \times R_{N2} \quad (24)$$

em aplicações sem carga radial, a capacidade da carga axial aumenta para:

$$A_{N2} = 0.70 \times R_{N2} \quad (25)$$

Se a carga for aplicada simultaneamente nas duas pontas de um eixo de saída sólido, entre em contato com a Assistência Técnica da Bonfiglioli para verificar a aplicação.

### RB

Os redutores A10, A20, A30, A35, A41, A50, A55 e A60, geralmente fornecidos com valores padrão de folga angular, são, neste caso, fornecidos com valores reduzidos de folga angular (exclui as opções de redutores AL e AR descritos neste parágrafo). A tabela a abaixo especifica os respectivos valores de folga angular.



(C 30)

		standard		RB	
A05	i =	5.5_12.3 - $\ominus$ (10.6)	10.6_91.6 - $\ominus$ (12.3)	—	
	$\varphi$ [°]	28	18	—	
A10	i =	5.5_12.3 - $\ominus$ (10.6)	10.6_91.6 - $\ominus$ (12.3)	5.5_12.3 - $\ominus$ (10.6)	10.6_91.6 - $\ominus$ (12.3)
	$\varphi$ [°]	27	17	12	8
A20	i =	5.4_12 - $\ominus$ (10.3)	10.3_380.9 - $\ominus$ (12)	5.4_12 - $\ominus$ (10.3)	10.3_380.9 - $\ominus$ (12)
	$\varphi$ [°]	23	15	11	7
A30	i =	5.4_11.8 - $\ominus$ (10.5)	10.5_400.8 - $\ominus$ (11.8)	5.4_11.8 - $\ominus$ (10.5)	10.5_400.8 - $\ominus$ (11.8)
	$\varphi$ [°]	22	15	10	7
A35	i =	5.4_11.8	13.1_393.2	5.4_11.8	13.1_393.2
	$\varphi$ [°]	20	11	9	6
A41	i =	5.2_11.7 - $\ominus$ (10.1)	10.1_376.8 - $\ominus$ (11.7)	5.2_11.7 - $\ominus$ (10.1)	10.1_376.8 - $\ominus$ (11.7)
	$\varphi$ [°]	19	13	9	6
A50	i =	7.7_778.2		7.7_778.2	
	$\varphi$ [°]	16		7	
A55	i =	4.9_19.2	23.8_793	4.9_19.2	23.8_793
	$\varphi$ [°]	17	11	8	6
A60	i =	7.9_20.6	25.7_755.4	7.9_20.6	25.7_755.4
	$\varphi$ [°]	12	9	5	4
A70	i =	9.4_21.3	23.5_1715	—	
	$\varphi$ [°]	14	12	—	
A80	i =	9.8_20.9	22.6_1558	—	
	$\varphi$ [°]	13	11	—	
A90	i =	9.7_21	22.3_1632	—	
	$\varphi$ [°]	12	10	—	

Para informações sobre o prazo de entrega, entre em contato com a rede de vendas Bonfiglioli.

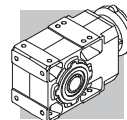
### PROTEÇÃO DE SUPERFÍCIE

Quando nenhuma classe de proteção específica for exigida, as superfícies (ferrosas) pintadas dos redutores serão protegidas de acordo com a classe de corrosividade C2 (UNI EN ISO 12944-2). Para aumentar a resistência contra corrosão atmosférica, os redutores podem ser fornecidos com proteções superficiais **C3** e **C4** obtidas pintando-se o redutor inteiro.

(C 31)

PROTEÇÃO DE SUPERFÍCIE	Ambientes típicos	Temperatura máxima de superfície	Classe corrosividade conforme com UNI EN ISO 12944-2
<b>C3</b>	Ambientes urbanos e industriais com até 100% de umidade relativa (poluição do ar média)	120°C	C3
<b>C4</b>	Áreas industriais, áreas costeiras, fábrica de produtos químicos, com até 100% de umidade relativa do ar (poluição do ar elevado)	120°C	C4

Redutores com proteção opcional para classe **C3** ou **C4** estão disponíveis em diversas cores. Se nenhuma cor específica for solicitada (ver a opção "PINTURA"), os redutores serão acabados na cor RAL 7042. Os redutores também podem ser fornecidos com proteção de superfície para corrosividade de classe **C5** de acordo com a norma UNI EN ISO 12944-2. Entre em contato com a nossa Assistência Técnica para mais detalhes.



## PINTURA

Redutores com proteção opcional para classe C3 ou C4 estão disponíveis nas cores descritas na tabela abaixo.

(C 32)

PINTURA	Cor	número RAL
<b>RAL7042*</b>	Cinza Tráfego A	7042
<b>RAL5010</b>	Azul Genciano	5010
<b>RAL9005</b>	Preto de Jato	9005
<b>RAL9006</b>	Alumínio Branco	9006
<b>RAL9010</b>	Branco Puro	9010

\* Se nenhuma cor específica for solicitada os redutores serão acabados na cor RAL 7042.

NOTA – Opções de “PINTURA” também podem ser especificadas em conjunto com as opções de “PROTEÇÃO DE SUPERFÍCIE”.

### AC - Certificado de Conformidade

O documento certifica a conformidade do produto com a ordem de compra e a construção em conformidade com os procedimentos aplicáveis do Sistema de Qualidade da Bonfiglioli.

### CC - Certificado de Inspeção

O documento implica a verificação do cumprimento do pedido, a inspeção visual das condições externas e das dimensões de acoplamento. A verificação dos principais parâmetros funcionais na condição descarregado também é feita juntamente com a vedação do óleo, tanto na condição estática como na condição de funcionamento. As unidades inspecionadas são amostradas dentro do lote de transporte e marcadas individualmente.

## 33.2 Acessórios

Ver capítulo 45 deste catálogo.

## 33.3 Opções de motor

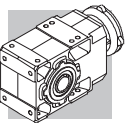
### AA, AC, AD

Posição angular da alavanca de liberação do freio em relação à caixa de terminais, olhando pelo lado da ventoinha.

Posição padrão = 90° no sentido horário.

AA = 0°, AC = 180°,

AD = 90° no sentido anti-horário.



### AL, AR

A opção contrarrecuo está também disponível para os motores M ou ME e não esta compatível com a presença da mesma opção de reductor. A tabela abaixo mostra o sentido de rotação livre do reductor, com base no qual a opção correta deve ser selecionada.

(C 33)

2x	A 05	A 10	A 20	A 30	A 35	A 41	A 50	A 60	2x	A 55						
3x	A 60	A 70	A 80	A 90					3x	A 20	A 30	A 35	A 41	A 50	A 55	
4x	A 50	A 55							4x	A 60	A 70	A 80	A 90			

### CF

Filtro capacitivo.

### D3

3 sensores bimetálicos de temperatura bobinagem, calibrados a 150°C.

### E3

3 termistores de temperatura de bobinagem, calibrados a 150°C.

### F1

Volante de inércia para partida e parada suaves.

### H1

Aquecedores anticondensação. Tensão padrão: 1~ 230V ±10%.

### PN

60 Hz de potência correspondente à potência normalizada de 50 Hz.

### PS

Extensão de eixo duplo (exceto opções RC e U1).

### RC

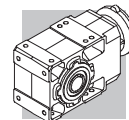
Tampa de gotejamento (exceto opção PS).

### RV

Balanceamento do rotor em vibração classe B.

### TC

A opção TC é uma variante de cobertura contra chuva para ambientes da indústria têxtil. Esta opção não é compatível com as variantes EN\_.



## TP

Tropicalização.

## U1

Refrigeração forçada (exceto opções PS e CUS).

## U2

Ventilação forçada com alimentação separada, sem caixa de terminais. Cabos com fios já instalados. A configuração não é compatível com as opções PS e CUS. Disponível nos motores: BN 71, BE 80 ... BE 132, M1, ME2 ... ME4.

Para mais informações sobre opções, consulte a seção “Motores Elétricos”.

## 34 LUBRIFICAÇÃO

As peças internas dos redutores Bonfiglioli são banhadas em óleo e lubrificadas por meio de borrião. Quadros tamanhos A 05, A 10, A 20, A 30, A 35 e A 41 são fornecidos pela fábrica ou pelos revendedores autorizados já preenchidos com óleo. Salvo especificado de outro modo, unidades tamanho A 50 ou maior são geralmente fornecidas sem lubrificação uma vez que o cliente é responsável pelo abastecimento de óleo antes de colocá-las em operação. Em ambos os casos, dependendo da versão, antes de colocar o redutor em operação poderá ser necessário substituir o bujão fechado usado para fins de transporte por um bujão de respiro fornecido com o produto.

Para tabelas de referência colocação de bujões de óleo e quantidade de lubrificante, consulte o Manual de Instalação, Operação e Manutenção (disponível no site: [www.bonfiglioli.com](http://www.bonfiglioli.com)).

O lubrificante de “longa duração” à base de poliglicol fornecido pela fábrica, se não estiver contaminado, não requer trocas de óleo periódicas durante a vida útil do redutor.

A operação dos redutores é permitida a temperaturas ambiente entre  $-20^{\circ}\text{C}$  e  $+40^{\circ}\text{C}$ . Entretanto, para temperaturas entre  $-20^{\circ}\text{C}$  e  $-10^{\circ}\text{C}$ , a unidade só poderá ser iniciada depois de ter sido gradual e uniformemente pré-aquecida ou inicialmente operada sem carga.

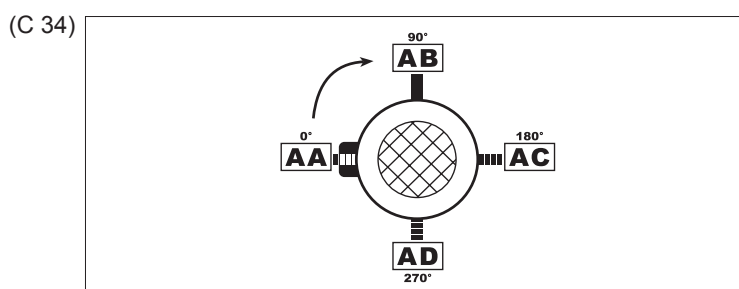
A carga poderá então ser conectada ao eixo de saída quando o redutor tiver atingido a temperatura de  $-10^{\circ}\text{C}$ , ou superior.

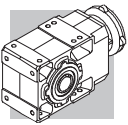
## 35 POSIÇÃO DE MONTAGEM E LOCALIZAÇÃO ANGULAR DA CAIXA DE TERMINAIS

A localização da caixa de terminais do motor pode ser especificada visualizando o motor pelo lado da ventoinha; a localização padrão é mostrada em preto (W).

### Localização angular da alavanca de liberação do freio.

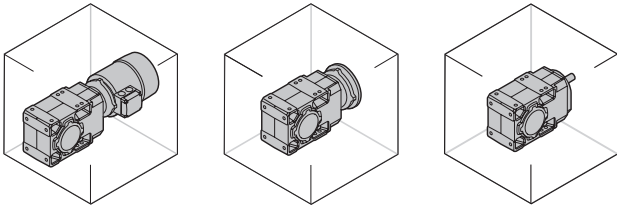
Salvo especificado de outro modo, motores com freio têm o lado do dispositivo manual localizado a um ângulo de  $90^{\circ}$  da caixa de terminais. Ângulos diferentes podem ser especificados utilizando as opções pertinentes disponíveis.



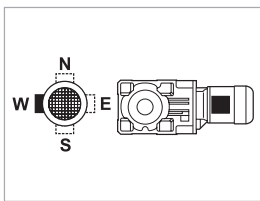


# A ...

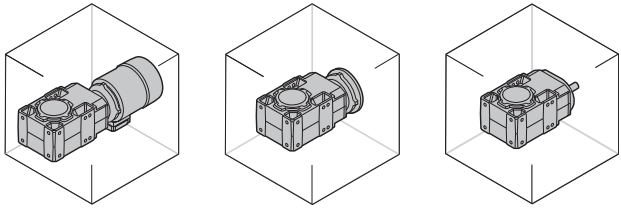
## B3



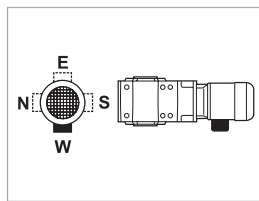
**\_S**    **\_P(IEC)** **\_N(NEMA)** **\_SK / \_SC**    **\_HS**    **\_NHS**



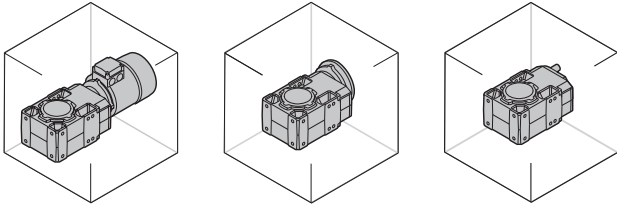
## B6



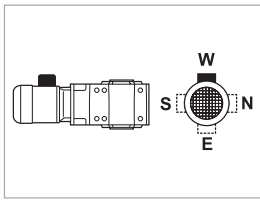
**\_S**    **\_P(IEC)** **\_N(NEMA)** **\_SK / \_SC**    **\_HS**    **\_NHS**



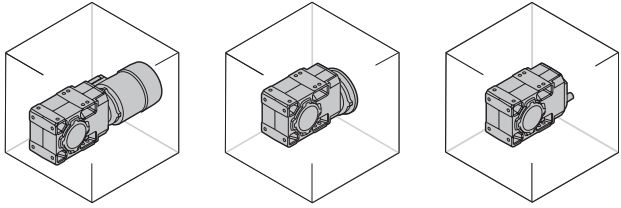
## B7



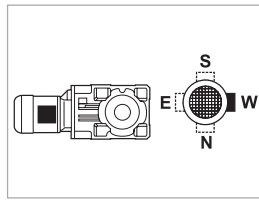
**\_S**    **\_P(IEC)** **\_N(NEMA)** **\_SK / \_SC**    **\_HS**    **\_NHS**



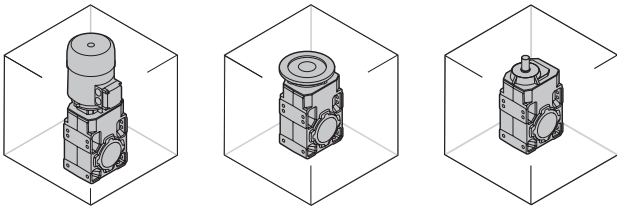
## B8



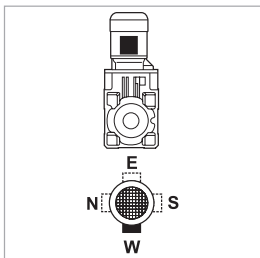
**\_S**    **\_P(IEC)** **\_N(NEMA)** **\_SK / \_SC**    **\_HS**    **\_NHS**



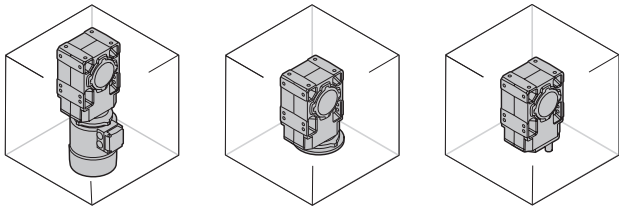
## VA



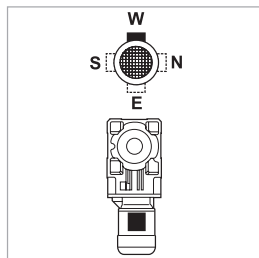
**\_S**    **\_P(IEC)** **\_N(NEMA)** **\_SK / \_SC**    **\_HS**    **\_NHS**



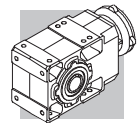
## VB



**\_S**    **\_P(IEC)** **\_N(NEMA)** **\_SK / \_SC**    **\_HS**    **\_NHS**



W = Default



## 36 CARGAS RADIAIS

Transmissões externas chavetadas no eixo de entrada e/ou saída geram cargas que atuam radialmente sobre o mesmo eixo.

A carga resultante sobre o eixo deve ser compatível com a capacidade do rolamento e do eixo. A saber, a carga sobre o eixo ( $R_{c1}$  para o eixo de entrada,  $R_{c2}$  para o eixo de saída) deve ser igual ou menor que a capacidade de carga radial permitida para o eixo em estudo ( $R_{n1}$  para o eixo de entrada,  $R_{n2}$  para o eixo de saída). Capacidade OHL informada na tabela de classificação.

Nas fórmulas apresentadas abaixo, o índice (1) refere-se aos parâmetros do eixo de entrada, enquanto o índice (2) refere-se ao eixo de saída.

A carga gerada por uma transmissão externa pode ser calculada de forma bastante aproximada com as seguintes equações:

$$R_{c1} [N] = \frac{2000 \cdot M_1 [Nm] \cdot K_r}{d [mm]} \quad ; \quad R_{c2} [N] = \frac{2000 \cdot M_2 [Nm] \cdot K_r}{d [mm]} \quad (26)$$

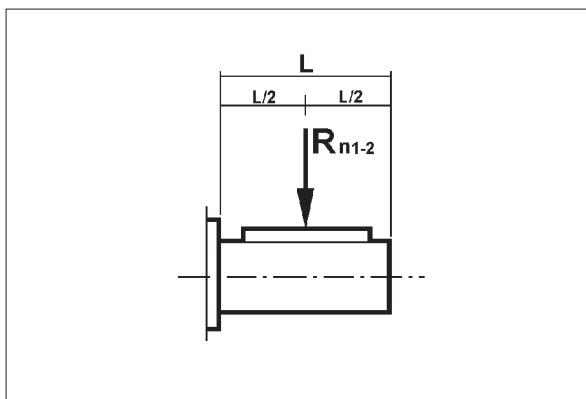
(C 35)

$M_1$ [Nm]	Torque aplicado ao eixo de entrada
$M_2$ [Nm]	Torque produzido no eixo de saída
$d$ [mm]	Diâmetro primitivo do elemento chavetado no eixo
$K_r = 1$	Transmissão por corrente

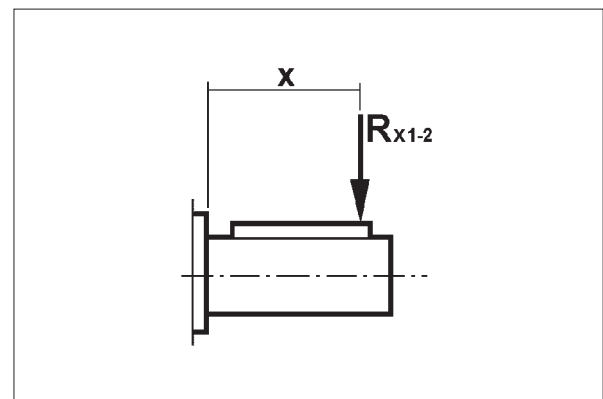
$K_r = 1.25$	Transmissão por engrenagem
$K_r = 1.5$	Transmissão por correia tipo V
$K_r = 2.0$	Transmissão por correia plana

A verificação da capacidade OHL varia dependendo de se a carga é aplicada no ponto médio do eixo ou se ela é deslocada para a ponta:

(C 36)



(C 37)







### a) Carga aplicada no ponto médio do eixo, com guia. (C35)

Uma comparação de carga sobre o eixo com as classificações do catálogo OHL deve verificar a seguinte condição:

$$R_{c1} \leq R_{n1} \quad [\text{eixo de entrada}]$$

ou

$$R_{c2} \leq R_{n2} \quad [\text{eixo de saída}]$$

### b) Carga fora da guia de ponto médio (C36)

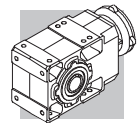
Quando a carga é deslocada a uma distância “x” do batente mecânico do eixo, a carga permitida deve ser calculada para essa distância.

Cargas radiais permitidas revisadas  $R_{x1}$  (entrada) e  $R_{x2}$  (saída) são calculadas respectivamente a partir dos valores nominais originais  $R_{n1}$  e  $R_{n2}$  com o fator:

$$\frac{a}{b+x} \quad (27)$$

(C 38)

	Fatores de localização de carga [mm]					
	Eixo de saída			Eixo de entrada		
	a	b	c	a	b	c
<b>A 05 2</b>	116	86	450	—	—	—
<b>A 10 2</b>	123	101	600	21	1	300
<b>A 20 2</b>	150	120	750	40	20	350
<b>A 20 3</b>	150	120	750	21	1	300
<b>A 30 2</b>	168	138	900	38.5	18.5	350
<b>A 30 3</b>	168	138	900	21	1	300
<b>A 35 2</b>	182.5	147.5	950	38.5	18.5	350
<b>A 35 3</b>	182.5	147.5	950	21	1	300
<b>A 41 2</b>	198	158	1050	49.5	24.5	450
<b>A 41 3</b>	198	158	1050	40	20	350
<b>A 50 2 - A 50 3</b>	242.5	201.5	1300	49.5	24.5	450
<b>A 50 4</b>	242.5	201.5	1300	38.5	18.5	350
<b>A 55 2 - A 55 3</b>	231.5	179	1300	49.5	24.5	450
<b>A 55 4</b>	231.5	179	1300	38.5	18.5	350
<b>A 60 2 - A 60 3</b>	242.5	190	1550	55.5	25.5	600
<b>A 60 4</b>	242.5	190	1550	49.5	24.5	450
<b>A 70 3</b>	295.5	230.5	1900	86	31	1000
<b>A 70 4</b>	295.5	230.5	1900	49.5	24.5	450
<b>A 80 3</b>	345	280	2400	86	31	1000
<b>A 80 4</b>	345	280	2400	49.5	24.5	450
<b>A 90 3</b>	432	327	3000	116	46	1400
<b>A 90 4</b>	432	327	3000	49.5	24.5	450



O procedimento de verificação é descrito abaixo.

### EIXO DE ENTRADA

1. Calcular:

$$R_{x1} = R_{n1} \cdot \frac{a}{b+x} \quad (28)$$

OBS: Sujeito à condição:

$$\frac{L}{2} \leq x \leq c \quad (29)$$

Por fim, a condição abaixo deve ser verificada:

$$R_{c1} \leq R_{x1} \quad (30)$$

### EIXO DE SAÍDA

1. Calcular:

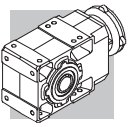
$$R_{x2} = R_{n2} \cdot \frac{a}{b+x} \quad (31)$$

OBS: Sujeito à condição:

$$\frac{L}{2} \leq x \leq c \quad (32)$$

Por fim, a condição abaixo deve ser verificada:

$$R_{c2} \leq R_{x2} \quad (33)$$



### 37 CARGAS AXIAIS, $A_{n1}$ , $A_{n2}$

As cargas axiais permitidas nos eixos de entrada [ $A_{n1}$ ] e de saída [ $A_{n2}$ ] são obtidas a partir da carga radial do eixo em consideração [ $R_{n1}$ ] e [ $R_{n2}$ ] por meio da seguinte equação:

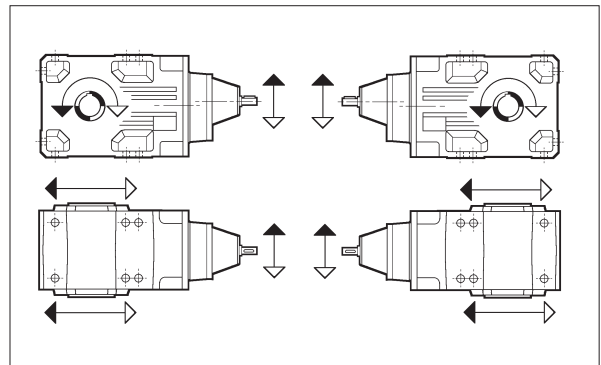
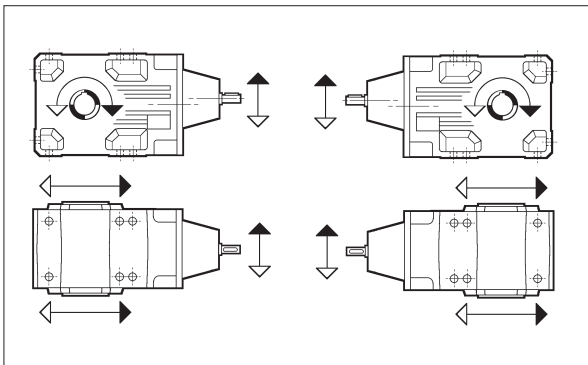
$$\begin{aligned} A_{n1} &= R_{n1} \cdot 0.2 \\ A_{n2} &= R_{n2} \cdot 0.2 \end{aligned} \quad (34)$$

As cargas axiais calculadas com estas fórmulas aplicam-se às cargas axiais ocorridas ao mesmo tempo que as cargas radiais nominais. No único caso que nenhuma carga radial atue sobre o eixo, o valor da carga axial permitida [ $A_n$ ] equivale a 50% de OHL nominal [ $R_n$ ] sobre o mesmo eixo. Quando as cargas axiais excederem o valor permitido ou prevalecerem em grande parte sobre as cargas radiais, entre em contato com a Bonfiglioli Redutores para uma análise detalhada da aplicação.

### 38 ARRANJO DE EIXOS

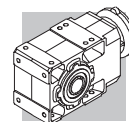
A tabela abaixo mostra os sentidos de rotação padrão dos redutores ortogonais de 2, 3 e 4 estágios.

(C 39)



2x	A 05	A 10	A 20	A 30	A 35	A 41	A 50	A 60
3x	A 60	A 70	A 80	A 90				
4x	A 50	A 55						

2x	A 55							
3x	A 20	A 30	A 35	A 41	A 50	A 55		
4x	A 60	A 70	A 80	A 90				

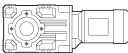






## 39 TABELAS DE CLASSIFICAÇÃO DE MOTOREDUTORES

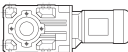






A seleção de motores sem freio leva em consideração os requisitos da Norma EC 640/2009 (ver a seção **M** deste catálogo). Quando a potência nominal do motor for maior que 0,75kW, motores BN/M podem ser fornecidos. Considerando que a Norma EC 640/2009 não é aplicável aos motores equipados com freio, a escolha do motofreio leva em consideração apenas motores BN/M, sem considerar a potência nominal. Motofreios BE e ME estão disponíveis mediante solicitação.

### 0.12 kW

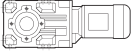



n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
4.2	248	1.3	400.8	8794	A303_400.8 S05 M05A4	322	A303_400.8 P63 BN63A4	320
4.3	243	1.8	393.2	11112	A353_393.2 S05 M05A4	332	A353_393.2 P63 BN63A4	330
4.4	236	1.0	380.8	5679	A203_380.8 S05 M05A4	312	A203_380.8 P63 BN63A4	310
4.7	220	1.6	356.3	8794	A303_356.3 S05 M05A4	322	A303_356.3 P63 BN63A4	320
5.0	210	2.3	339.3	11112	A353_339.3 S05 M05A4	332	A353_339.3 P63 BN63A4	330
5.1	204	1.1	329.4	5679	A203_329.4 S05 M05A4	312	A203_329.4 P63 BN63A4	310
5.4	195	1.9	314.6	8794	A303_314.6 S05 M05A4	322	A303_314.6 P63 BN63A4	320
5.8	181	1.3	292.8	5679	A203_292.8 S05 M05A4	312	A203_292.8 P63 BN63A4	310
6.2	168	2.1	271.5	8794	A303_271.5 S05 M05A4	322	A303_271.5 P63 BN63A4	320
6.5	161	1.4	260.5	5679	A203_260.5 S05 M05A4	312	A203_260.5 P63 BN63A4	310
6.9	151	2.3	244.3	8794	A303_244.3 S05 M05A4	322	A303_244.3 P63 BN63A4	320
7.6	137	1.7	221.3	5679	A203_221.3 S05 M05A4	312	A203_221.3 P63 BN63A4	310
7.8	134	2.5	216.6	8794	A303_216.6 S05 M05A4	322	A303_216.6 P63 BN63A4	320
8.5	123	1.9	199.2	5679	A203_199.2 S05 M05A4	312	A203_199.2 P63 BN63A4	310
8.5	123	2.6	198.5	8794	A303_198.5 S05 M05A4	322	A303_198.5 P63 BN63A4	320
9.5	110	2.9	178.5	8794	A303_178.5 S05 M05A4	322	A303_178.5 P63 BN63A4	320
9.5	110	2.1	178.3	5679	A203_178.3 S05 M05A4	312	A203_178.3 P63 BN63A4	310
10.3	101	2.2	163.4	5679	A203_163.4 S05 M05A4	312	A203_163.4 P63 BN63A4	310
11.6	90	2.4	146.1	5679	A203_146.1 S05 M05A4	312	A203_146.1 P63 BN63A4	310
13.1	80	2.5	129.1	5679	A203_129.1 S05 M05A4	312	A203_129.1 P63 BN63A4	310
14.0	75	2.6	120.5	5679	A203_120.5 S05 M05A4	312	A203_120.5 P63 BN63A4	310
15.5	68	2.8	109.2	5679	A203_109.2 S05 M05A4	312	A203_109.2 P63 BN63A4	310
18.4	59	1.7	91.6	3996	A052_91.6 S05 M05A4	295	A052_91.6 P63 BN63A4	294
18.4	59	2.2	91.6	4972	A102_91.6 S05 M05A4	302	A102_91.6 P63 BN63A4	300
22.1	49	2.0	76.4	3824	A052_76.4 S05 M05A4	295	A052_76.4 P63 BN63A4	294
25.6	42	2.4	65.9	3679	A052_65.9 S05 M05A4	295	A052_65.9 P63 BN63A4	294
28.8	37	2.7	58.6	3571	A052_58.6 S05 M05A4	295	A052_58.6 P63 BN63A4	294

### 0.18 kW

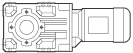



n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
2.1	748	2.7	793.0	27780			A554_793.0 P63 BN63B4	360
2.1	734	2.0	778.2	18320			A504_778.2 P63 BN63B4	350
2.3	674	2.9	714.7	27780			A554_714.7 P63 BN63B4	360
2.4	668	2.2	707.9	18320			A504_707.9 P63 BN63B4	350
2.6	596	2.5	631.2	18320			A504_631.2 P63 BN63B4	350

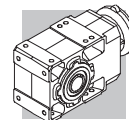


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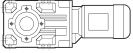

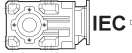


n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
2.9	542	2.8	574.2	18320			A504_574.2 P63 BN63B4	350
4.2	379	1.1	393.2	11112	A353_393.2 S05 M05B4	332	A353_393.2 P63 BN63B4	330
4.4	363	2.3	376.8	13755	A413_376.8 S05 M05B4	342	A413_376.8 P63 BN63B4	340
4.7	344	1.0	356.3	8794	A303_356.3 S05 M05B4	322	A303_356.3 P63 BN63B4	320
4.9	327	1.5	339.3	11112	A353_339.3 S05 M05B4	332	A353_339.3 P63 BN63B4	330
5.2	313	2.7	324.2	13755	A413_324.2 S05 M05B4	342	A413_324.2 P63 BN63B4	340
5.3	303	1.2	314.6	8794	A303_314.6 S05 M05B4	322	A303_314.6 P63 BN63B4	320
5.5	295	2.0	305.4	11112	A353_305.4 S05 M05B4	332	A353_305.4 P63 BN63B4	330
6.2	262	1.3	271.5	8794	A303_271.5 S05 M05B4	322	A303_271.5 P63 BN63B4	320
6.2	261	2.2	270.7	11112	A353_270.7 S05 M05B4	332	A353_270.7 P63 BN63B4	330
6.4	251	0.9	260.5	5679	A203_260.5 S05 M05B4	312	A203_260.5 P63 BN63B4	310
6.7	239	2.4	248.1	11112	A353_248.1 S05 M05B4	332	A353_248.1 P63 BN63B4	330
6.8	236	1.5	244.3	8794	A303_244.3 S05 M05B4	322	A303_244.3 P63 BN63B4	320
7.5	215	2.6	223.2	11112	A353_223.2 S05 M05B4	332	A353_223.2 P63 BN63B4	330
7.5	213	1.1	221.3	5679	A203_221.3 S05 M05B4	312	A203_221.3 P63 BN63B4	310
7.7	209	1.6	216.6	8794	A303_216.6 S05 M05B4	322	A303_216.6 P63 BN63B4	320
8.3	195	2.9	201.8	11112	A353_201.8 S05 M05B4	332	A353_201.8 P63 BN63B4	330
8.4	192	1.2	199.2	5679	A203_199.2 S05 M05B4	312	A203_199.2 P63 BN63B4	310
8.4	191	1.7	198.5	8794	A303_198.5 S05 M05B4	322	A303_198.5 P63 BN63B4	320
9.4	172	1.9	178.5	8794	A303_178.5 S05 M05B4	322	A303_178.5 P63 BN63B4	320
9.4	172	1.3	178.3	5679	A203_178.3 S05 M05B4	312	A203_178.3 P63 BN63B4	310
10.2	158	1.4	163.4	5679	A203_163.4 S05 M05B4	312	A203_163.4 P63 BN63B4	310
10.3	156	2.0	161.4	8794	A303_161.4 S05 M05B4	322	A303_161.4 P63 BN63B4	320
11.1	145	2.1	150.7	8794	A303_150.7 S05 M05B4	322	A303_150.7 P63 BN63B4	320
11.4	141	1.5	146.1	5679	A203_146.1 S05 M05B4	312	A203_146.1 P63 BN63B4	310
12.2	133	2.2	137.4	8794	A303_137.4 S05 M05B4	322	A303_137.4 P63 BN63B4	320
12.9	125	1.6	129.1	5679	A203_129.1 S05 M05B4	312	A203_129.1 P63 BN63B4	310
13.9	116	1.7	120.5	5679	A203_120.5 S05 M05B4	312	A203_120.5 P63 BN63B4	310
13.9	116	2.4	120.5	8794	A303_120.5 S05 M05B4	322	A303_120.5 P63 BN63B4	320
15.3	105	1.8	109.2	5679	A203_109.2 S05 M05B4	312	A203_109.2 P63 BN63B4	310
15.3	105	2.6	109.1	8794	A303_109.1 S05 M05B4	322	A303_109.1 P63 BN63B4	320
18.1	92	2.0	92.3	5679	A202_92.3 S05 M05B4	312	A202_92.3 P63 BN63B4	310
18.2	91	1.1	91.6	3724	A052_91.6 S05 M05B4	295	A052_91.6 P63 BN63B4	294
18.2	91	1.4	91.6	4972	A102_91.6 S05 M05B4	302	A102_91.6 P63 BN63B4	300
20.9	80	2.4	79.9	5679	A202_79.9 S05 M05B4	312	A202_79.9 P63 BN63B4	310
21.9	76	1.3	76.4	3598	A052_76.4 S05 M05B4	295	A052_76.4 P63 BN63B4	294
21.9	76	2.0	76.4	4972	A102_76.4 S05 M05B4	302	A102_76.4 P63 BN63B4	300
23.5	71	2.8	71.0	5679	A202_71.0 S05 M05B4	312	A202_71.0 P63 BN63B4	310
25.3	66	1.5	65.9	3489	A052_65.9 S05 M05B4	295	A052_65.9 P63 BN63B4	294
25.3	66	2.3	65.9	4972	A102_65.9 S05 M05B4	302	A102_65.9 P63 BN63B4	300
28.5	58	1.7	58.6	3399	A052_58.6 S05 M05B4	295	A052_58.6 P63 BN63B4	294
28.5	58	2.6	58.6	4972	A102_58.6 S05 M05B4	302	A102_58.6 P63 BN63B4	300
33	51	2.0	51.3	3291	A052_51.3 S05 M05B4	295	A052_51.3 P63 BN63B4	294
33	51	2.9	51.3	4972	A102_51.3 S05 M05B4	302	A102_51.3 P63 BN63B4	300
37	45	2.2	45.4	3200	A052_45.4 S05 M05B4	295	A052_45.4 P63 BN63B4	294
41	41	2.5	40.9	3110	A052_40.9 S05 M05B4	295	A052_40.9 P63 BN63B4	294
48	35	2.9	35.1	2992	A052_35.1 S05 M05B4	295	A052_35.1 P63 BN63B4	294

## 0.25 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
1.0	2137	2.3	1715.0	46350			A704_1715 P71 BN71A4	380
1.1	1973	2.5	1583.1	46350			A704_1583 P71 BN71A4	380
1.2	1677	3.0	1345.9	46350			A704_1346 P71 BN71A4	380
2.1	988	2.0	793.0	27780			A554_793.0 P71 BN71A4	360
2.1	970	1.5	778.2	18320			A504_778.2 P71 BN71A4	350
2.2	941	3.0	755.4	27810			A604_755.4 P71 BN71A4	370
2.3	890	2.2	714.7	27780			A554_714.7 P71 BN71A4	360
2.4	882	1.7	707.9	18320			A504_707.9 P71 BN71A4	350



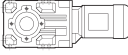




## 0.25 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
2.5	816	2.4	655.1	27780			A554_655.1 P71 BN71A4	360
2.6	787	1.9	631.2	18320			A504_631.2 P71 BN71A4	350
2.8	747	2.6	599.5	27780			A554_599.5 P71 BN71A4	360
2.9	715	2.1	574.2	18320			A504_574.2 P71 BN71A4	350
3.1	675	2.8	542.0	27780			A554_542.0 P71 BN71A4	360
3.2	660	2.3	529.5	18320			A504_529.5 P71 BN71A4	350
3.5	600	2.5	481.6	18320			A504_481.6 P71 BN71A4	350
3.7	557	2.7	446.8	18320			A504_446.8 P71 BN71A4	350
4.1	506	3.0	406.4	18320			A504_406.4 P71 BN71A4	350
4.4	480	1.8	376.8	13755	A413_376.8 S05 M05C4	342	A413_376.8 P71 BN71A4	340
4.9	432	1.1	339.3	11112	A353_339.3 S05 M05C4	332	A353_339.3 P71 BN71A4	330
5.2	413	2.1	324.2	13755	A413_324.2 S05 M05C4	342	A413_324.2 P71 BN71A4	340
5.3	401	0.9	314.6	8794	A303_314.6 S05 M05C4	322	A303_314.6 P71 BN71A4	320
5.5	389	1.5	305.4	11112	A353_305.4 S05 M05C4	332	A353_305.4 P71 BN71A4	330
5.7	372	2.3	291.7	13755	A413_291.7 S05 M05C4	342	A413_291.7 P71 BN71A4	340
6.2	346	1.0	271.5	8794	A303_271.5 S05 M05C4	322	A303_271.5 P71 BN71A4	320
6.2	345	1.7	270.7	11112	A353_270.7 S05 M05C4	332	A353_270.7 P71 BN71A4	330
6.4	334	2.5	262.5	13755	A413_262.5 S05 M05C4	342	A413_262.5 P71 BN71A4	340
6.7	316	1.8	248.1	11112	A353_248.1 S05 M05C4	332	A353_248.1 P71 BN71A4	330
6.8	311	1.1	244.3	8794	A303_244.3 S05 M05C4	322	A303_244.3 P71 BN71A4	320
6.9	307	2.8	240.6	13755	A413_240.6 S05 M05C4	342	A413_240.6 P71 BN71A4	340
7.5	284	2.0	223.2	11112	A353_223.2 S05 M05C4	332	A353_223.2 P71 BN71A4	330
7.7	276	1.2	216.6	8794	A303_216.6 S05 M05C4	322	A303_216.6 P71 BN71A4	320
8.3	257	2.2	201.8	11112	A353_201.8 S05 M05C4	332	A353_201.8 P71 BN71A4	330
8.4	254	0.9	199.2	5679	A203_199.2 S05 M05C4	312	A203_199.2 P71 BN71A4	310
8.4	253	1.3	198.5	8794	A303_198.5 S05 M05C4	322	A303_198.5 P71 BN71A4	320
8.9	240	2.3	188.3	11112	A353_188.3 S05 M05C4	332	A353_188.3 P71 BN71A4	330
9.4	227	1.4	178.5	8794	A303_178.5 S05 M05C4	322	A303_178.5 P71 BN71A4	320
9.4	227	1.0	178.3	5679	A203_178.3 S05 M05C4	312	A203_178.3 P71 BN71A4	310
9.7	219	2.5	171.8	11112	A353_171.8 S05 M05C4	332	A353_171.8 P71 BN71A4	330
10.2	208	1.0	163.4	5679	A203_163.4 S05 M05C4	312	A203_163.4 P71 BN71A4	310
10.3	206	1.5	161.4	8794	A303_161.4 S05 M05C4	322	A303_161.4 P71 BN71A4	320
11.1	192	1.6	150.7	8794	A303_150.7 S05 M05C4	322	A303_150.7 P71 BN71A4	320
11.1	192	2.9	150.6	11112	A353_150.6 S05 M05C4	332	A353_150.6 P71 BN71A4	330
11.4	186	1.1	146.1	5679	A203_146.1 S05 M05C4	312	A203_146.1 P71 BN71A4	310
12.2	175	1.7	137.4	8794	A303_137.4 S05 M05C4	322	A303_137.4 P71 BN71A4	320
12.9	165	1.2	129.1	5679	A203_129.1 S05 M05C4	312	A203_129.1 P71 BN71A4	310
13.9	154	1.3	120.5	5679	A203_120.5 S05 M05C4	312	A203_120.5 P71 BN71A4	310
13.9	153	1.8	120.5	8794	A303_120.5 S05 M05C4	322	A303_120.5 P71 BN71A4	320
15.3	139	1.4	109.2	5679	A203_109.2 S05 M05C4	312	A203_109.2 P71 BN71A4	310
15.3	139	2.0	109.1	8794	A303_109.1 S05 M05C4	322	A303_109.1 P71 BN71A4	320
17.1	128	2.3	97.5	8794			A302_97.5 P71 BN71A4	320
18.1	122	1.5	92.3	5679	A202_92.3 S05 M05C4	312	A202_92.3 P71 BN71A4	310
18.2	121	1.1	91.6	4972	A102_91.6 S05 M05C4	302	A102_91.6 P71 BN71A4	300
19.3	114	2.8	86.7	8794			A302_86.7 P71 BN71A4	320
20.9	105	1.9	79.9	5679	A202_79.9 S05 M05C4	312	A202_79.9 P71 BN71A4	310
21.9	101	1.0	76.4	3498	A052_76.4 S05 M05C4	295		
21.9	101	1.5	76.4	4972	A102_76.4 S05 M05C4	302	A102_76.4 P71 BN71A4	300
23.5	93	2.1	71.0	5679	A202_71.0 S05 M05C4	312	A202_71.0 P71 BN71A4	310
25.3	87	1.2	65.9	3390	A052_65.9 S05 M05C4	295		
25.3	87	1.7	65.9	4972	A102_65.9 S05 M05C4	302	A102_65.9 P71 BN71A4	300
26.4	83	2.7	63.1	5679	A202_63.1 S05 M05C4	312	A202_63.1 P71 BN71A4	310
28.5	77	1.3	58.6	3327	A052_58.6 S05 M05C4	295		
28.5	77	1.9	58.6	4972	A102_58.6 S05 M05C4	302	A102_58.6 P71 BN71A4	300
33	67	1.5	51.3	3119	A052_51.3 S05 M05C4	295	A052_51.3 P71 BN71A4	294
33	67	2.2	51.3	4972	A102_51.3 S05 M05C4	302	A102_51.3 P71 BN71A4	300
37	60	1.7	45.4	3046	A052_45.4 S05 M05C4	295	A052_45.4 P71 BN71A4	294
37	60	2.5	45.4	4972	A102_45.4 S05 M05C4	302	A102_45.4 P71 BN71A4	300
41	54	1.9	40.9	2974	A052_40.9 S05 M05C4	295	A052_40.9 P71 BN71A4	294
41	54	2.8	40.9	4972	A102_40.9 S05 M05C4	302	A102_40.9 P71 BN71A4	300
48	46	2.2	35.1	2875	A052_35.1 S05 M05C4	295	A052_35.1 P71 BN71A4	294
52	42	2.4	32.2	2820	A052_32.2 S05 M05C4	295	A052_32.2 P71 BN71A4	294
58	38	2.7	28.6	2739	A052_28.6 S05 M05C4	295	A052_28.6 P71 BN71A4	294
66	34	3.0	25.5	2658	A052_25.5 S05 M05C4	295	A052_25.5 P71 BN71A4	294

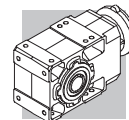




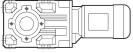

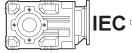


## 0.37 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
1.0	3190	1.6	1715.0	46350	A704_1715 S1 M1SD4	382	A704_1715 P71 BN71B4	380
1.1	2945	1.7	1583.1	46350	A704_1583 S1 M1SD4	382	A704_1583 P71 BN71B4	380
1.1	2897	2.8	1557.7	60320	A804_1558 S1 M1SD4	390	A804_1558 P71 BN71B4	388
1.2	2675	3.0	1437.8	60320	A804_1438 S1 M1SD4	390	A804_1438 P71 BN71B4	388
1.3	2503	2.0	1345.9	46350	A704_1346 S1 M1SD4	382	A704_1346 P71 BN71B4	380
1.4	2311	2.2	1242.3	46350	A704_1242 S1 M1SD4	382	A704_1242 P71 BN71B4	380
1.5	2160	2.3	1161.5	46350	A704_1161 S1 M1SD4	382	A704_1161 P71 BN71B4	380
1.6	1994	2.5	1072.1	46350	A704_1072 S1 M1SD4	382	A704_1072 P71 BN71B4	380
1.8	1723	2.9	926.5	46350	A704_926.5 S1 M1SD4	382	A704_926.5 P71 BN71B4	380
2.1	1475	1.4	793.0	27780	A554_793.0 S1 M1SD4	362	A554_793.0 P71 BN71B4	360
2.2	1448	1.0	778.2	18320	A504_778.2 S1 M1SD4	352	A504_778.2 P71 BN71B4	350
2.3	1405	2.0	755.4	27810	A604_755.4 S1 M1SD4	372	A604_755.4 P71 BN71B4	370
2.4	1329	1.5	714.7	27780	A554_714.7 S1 M1SD4	362	A554_714.7 P71 BN71B4	360
2.4	1317	1.1	707.9	18320	A504_707.9 S1 M1SD4	352	A504_707.9 P71 BN71B4	350
2.4	1297	2.2	697.3	27810	A604_697.3 S1 M1SD4	372	A604_697.3 P71 BN71B4	370
2.6	1219	1.6	655.1	27780	A554_655.1 S1 M1SD4	362	A554_655.1 P71 BN71B4	360
2.7	1180	2.4	634.6	27810	A604_634.6 S1 M1SD4	372	A604_634.6 P71 BN71B4	370
2.7	1174	1.3	631.2	18320	A504_631.2 S1 M1SD4	352	A504_631.2 P71 BN71B4	350
2.8	1115	1.7	599.5	27780	A554_599.5 S1 M1SD4	362	A554_599.5 P71 BN71B4	360
2.9	1090	2.6	585.8	27810	A604_585.8 S1 M1SD4	372	A604_585.8 P71 BN71B4	370
3.0	1068	1.4	574.2	18320	A504_574.2 S1 M1SD4	352	A504_574.2 P71 BN71B4	350
3.1	1008	2.8	542.0	27810	A604_542.0 S1 M1SD4	372	A604_542.0 P71 BN71B4	370
3.1	1008	1.9	542.0	27780	A554_542.0 S1 M1SD4	362	A554_542.0 P71 BN71B4	360
3.2	985	1.5	529.5	18320	A504_529.5 S1 M1SD4	352	A504_529.5 P71 BN71B4	350
3.4	941	2.0	505.9	27780	A554_505.9 S1 M1SD4	362	A554_505.9 P71 BN71B4	360
3.5	896	1.7	481.6	18320	A504_481.6 S1 M1SD4	352	A504_481.6 P71 BN71B4	350
3.8	831	1.8	446.8	18320	A504_446.8 S1 M1SD4	352	A504_446.8 P71 BN71B4	350
4.1	770	2.4	414.0	27780	A554_414.0 S1 M1SD4	362	A554_414.0 P71 BN71B4	360
4.2	756	2.0	406.4	18320	A504_406.4 S1 M1SD4	352	A504_406.4 P71 BN71B4	350
4.5	717	1.2	376.8	13755	A413_376.8 S1 M1SD4	342	A413_376.8 P71 BN71B4	340
4.6	680	2.2	365.6	18320	A504_365.6 S1 M1SD4	352	A504_365.6 P71 BN71B4	350
5.1	619	2.4	332.6	18320	A504_332.6 S1 M1SD4	352	A504_332.6 P71 BN71B4	350
5.2	617	1.4	324.2	13755	A413_324.2 S1 M1SD4	342	A413_324.2 P71 BN71B4	340
5.6	581	1.0	305.4	11112	A353_305.4 S1 M1SD4	332	A353_305.4 P71 BN71B4	330
5.8	555	1.5	291.7	13755	A413_291.7 S1 M1SD4	342	A413_291.7 P71 BN71B4	340
5.9	533	2.8	286.8	18320	A504_286.8 S1 M1SD4	352	A504_286.8 P71 BN71B4	350
6.3	515	1.1	270.7	11112	A353_270.7 S1 M1SD4	332	A353_270.7 P71 BN71B4	330
6.5	499	1.7	262.5	13755	A413_262.5 S1 M1SD4	342	A413_262.5 P71 BN71B4	340
6.9	472	1.2	248.1	11112	A353_248.1 S1 M1SD4	332	A353_248.1 P71 BN71B4	330
7.1	458	1.9	240.6	13755	A413_240.6 S1 M1SD4	342	A413_240.6 P71 BN71B4	340
7.6	424	1.3	223.2	11112	A353_223.2 S1 M1SD4	332	A353_223.2 P71 BN71B4	330
7.8	413	2.1	217.4	13755	A413_217.4 S1 M1SD4	342	A413_217.4 P71 BN71B4	340
8.4	384	1.4	201.8	11112	A353_201.8 S1 M1SD4	332	A353_201.8 P71 BN71B4	330
8.6	376	2.3	197.5	13755	A413_197.5 S1 M1SD4	342	A413_197.5 P71 BN71B4	340
9.0	358	1.6	188.3	11112	A353_188.3 S1 M1SD4	332	A353_188.3 P71 BN71B4	330
9.2	351	2.4	184.4	13755	A413_184.4 S1 M1SD4	342	A413_184.4 P71 BN71B4	340
9.5	340	0.9	178.5	8061	A303_178.5 S1 M1SD4	322	A303_178.5 P71 BN71B4	320
9.9	327	1.7	171.8	11112	A353_171.8 S1 M1SD4	332	A353_171.8 P71 BN71B4	330
10.5	307	1.0	161.4	8381	A303_161.4 S1 M1SD4	322	A303_161.4 P71 BN71B4	320
11.3	287	1.1	150.7	8794	A303_150.7 S1 M1SD4	322	A303_150.7 P71 BN71B4	320
11.3	286	1.9	150.6	11112	A353_150.6 S1 M1SD4	332	A353_150.6 P71 BN71B4	330
12.4	261	1.1	137.4	8794	A303_137.4 S1 M1SD4	322	A303_137.4 P71 BN71B4	320
12.5	259	2.1	136.3	11112	A353_136.3 S1 M1SD4	332	A353_136.3 P71 BN71B4	330
14.1	229	1.2	120.5	8794	A303_120.5 S1 M1SD4	322	A303_120.5 P71 BN71B4	320
14.5	222	2.3	116.9	11112	A353_116.9 S1 M1SD4	332	A353_116.9 P71 BN71B4	330
15.6	208	0.9	109.2	5175	A203_109.2 S1 M1SD4	312	A203_109.2 P71 BN71B4	310
15.6	207	1.3	109.1	8794	A303_109.1 S1 M1SD4	322	A303_109.1 P71 BN71B4	320
16.1	201	2.4	105.5	11112	A353_105.5 S1 M1SD4	332	A353_105.5 P71 BN71B4	330
17.4	192	1.6	97.5	8794	A302_97.5 S1 M1SD4	312	A302_97.5 P71 BN71B4	320
17.8	188	2.9	95.6	11112	A352_95.6 S1 M1SD4	332	A352_95.6 P71 BN71B4	330
18.4	181	1.0	92.3	5404	A202_92.3 S1 M1SD4	312	A202_92.3 P71 BN71B4	310
19.6	170	1.9	86.7	8794	A302_86.7 S1 M1SD4	312	A302_86.7 P71 BN71B4	320
21.3	157	1.2	79.9	5679	A202_79.9 S1 M1SD4	312	A202_79.9 P71 BN71B4	310
22.2	150	2.3	76.5	8794	A302_76.5 S1 M1SD4	322	A302_76.5 P71 BN71B4	320
22.2	150	1.0	76.4	4656	A102_76.4 S1 M1SD4	312	A102_76.4 P71 BN71B4	300
23.9	139	1.4	71.0	5679	A202_71.0 S1 M1SD4	312	A202_71.0 P71 BN71B4	310
25.8	130	1.2	65.9	4800	A102_65.9 S1 M1SD4	312	A102_65.9 P71 BN71B4	300
26.9	124	1.8	63.1	5679	A202_63.1 S1 M1SD4	312	A202_63.1 P71 BN71B4	310
29.0	115	1.3	58.6	4873	A102_58.6 S1 M1SD4	312	A102_58.6 P71 BN71B4	300
32	105	2.4	53.7	5578	A202_53.7 S1 M1SD4	312	A202_53.7 P71 BN71B4	310
33	101	1.0	51.3	2802	A052_51.3 S1 M1SD4	295	A052_51.3 P71 BN71B4	294

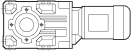

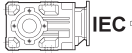






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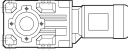

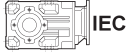


n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
33	101	1.5	51.3	4963	A102_51.3 S1 M1SD4	302	A102_51.3 P71 BN71B4	300
35	95	2.6	48.3	5441	A202_48.3 S1 M1SD4	312	A202_48.3 P71 BN71B4	310
37	89	1.1	45.4	2766	A052_45.4 S1 M1SD4	295	A052_45.4 P71 BN71B4	294
37	89	1.7	45.4	4836	A102_45.4 S1 M1SD4	302	A102_45.4 P71 BN71B4	300
39	85	2.9	43.2	5294	A202_43.2 S1 M1SD4	312	A202_43.2 P71 BN71B4	310
42	80	1.2	40.9	2730	A052_40.9 S1 M1SD4	295	A052_40.9 P71 BN71B4	294
42	80	1.9	40.9	4972	A102_40.9 S1 M1SD4	302	A102_40.9 P71 BN71B4	300
48	69	1.4	35.1	2667	A052_35.1 S1 M1SD4	295	A052_35.1 P71 BN71B4	294
48	69	2.2	35.1	4556	A102_35.1 S1 M1SD4	302	A102_35.1 P71 BN71B4	300
53	63	1.6	32.2	2622	A052_32.2 S1 M1SD4	295	A052_32.2 P71 BN71B4	294
53	63	2.4	32.2	4972	A102_32.2 S1 M1SD4	302	A102_32.2 P71 BN71B4	300
60	56	1.8	28.6	2567	A052_28.6 S1 M1SD4	295	A052_28.6 P71 BN71B4	294
60	56	2.7	28.6	4330	A102_28.6 S1 M1SD4	302	A102_28.6 P71 BN71B4	300
67	50	2.0	25.5	2504	A052_25.5 S1 M1SD4	295	A052_25.5 P71 BN71B4	294
67	50	3.0	25.5	4972	A102_25.5 S1 M1SD4	302	A102_25.5 P71 BN71B4	300
72	47	2.1	23.8	2468	A052_23.8 S1 M1SD4	295	A052_23.8 P71 BN71B4	294
80	42	2.4	21.4	2414	A052_21.4 S1 M1SD4	295	A052_21.4 P71 BN71B4	294
92	36	2.6	18.6	2341	A052_18.6 S1 M1SD4	295	A052_18.6 P71 BN71B4	294
103	32	2.9	16.4	2269	A052_16.4 S1 M1SD4	295	A052_16.4 P71 BN71B4	294

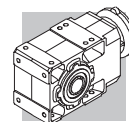
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n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
1.0	4762	1.0	1715.0	46350	A704_1715 S1 M1LA4	382	A704_1715 P80 BN80A4	380
1.1	4396	1.1	1583.1	46350	A704_1583 S1 M1LA4	382	A704_1583 P80 BN80A4	380
1.1	4325	1.8	1557.7	60320	A804_1558 S1 M1LA4	390	A804_1558 P80 BN80A4	388
1.2	3993	2.0	1437.8	60320	A804_1438 S1 M1LA4	390	A804_1438 P80 BN80A4	388
1.3	3737	1.3	1345.9	46350	A704_1346 S1 M1LA4	382	A704_1346 P80 BN80A4	380
1.3	3721	2.2	1339.9	60320	A804_1340 S1 M1LA4	390	A804_1340 P80 BN80A4	388
1.4	3450	1.4	1242.3	46350	A704_1242 S1 M1LA4	382	A704_1242 P80 BN80A4	380
1.4	3435	2.3	1236.9	60320	A804_1237 S1 M1LA4	390	A804_1237 P80 BN80A4	388
1.5	3225	1.6	1161.5	46350	A704_1161 S1 M1LA4	382	A704_1161 P80 BN80A4	380
1.6	3013	2.7	1084.9	60320	A804_1085 S1 M1LA4	390	A804_1085 P80 BN80A4	388
1.6	2977	1.7	1072.1	46350	A704_1072 S1 M1LA4	382	A704_1072 P80 BN80A4	380
1.7	2781	2.9	1001.4	60320	A804_1001 S1 M1LA4	390	A804_1001 P80 BN80A4	388
1.8	2573	1.9	926.5	46350	A704_926.5 S1 M1LA4	382	A704_926.5 P80 BN80A4	380
2.0	2375	2.1	855.3	46350	A704_855.3 S1 M1LA4	382	A704_855.3 P80 BN80A4	380
2.2	2202	0.9	793.0	27780	A554_793.0 S1 M1LA4	362	A554_793.0 P80 BN80A4	360
2.2	2121	2.4	763.9	46350	A704_763.9 S1 M1LA4	382	A704_763.9 P80 BN80A4	380
2.3	2098	1.3	755.4	27810	A604_755.4 S1 M1LA4	372	A604_755.4 P80 BN80A4	370
2.4	1985	1.0	714.7	27780	A554_714.7 S1 M1LA4	362	A554_714.7 P80 BN80A4	360
2.4	1958	2.6	705.1	46350	A704_705.1 S1 M1LA4	382	A704_705.1 P80 BN80A4	380
2.5	1936	1.4	697.3	27810	A604_697.3 S1 M1LA4	372	A604_697.3 P80 BN80A4	370
2.6	1819	1.1	655.1	27780	A554_655.1 S1 M1LA4	362	A554_655.1 P80 BN80A4	360
2.7	1790	2.8	644.6	46350	A704_644.6 S1 M1LA4	382	A704_644.6 P80 BN80A4	380
2.7	1762	1.6	634.6	27810	A604_634.6 S1 M1LA4	372	A604_634.6 P80 BN80A4	370
2.9	1665	1.2	599.5	27780	A554_599.5 S1 M1LA4	362	A554_599.5 P80 BN80A4	360
2.9	1627	1.7	585.8	27810	A604_585.8 S1 M1LA4	372	A604_585.8 P80 BN80A4	370
3.0	1594	0.9	574.2	18320	A504_574.2 S1 M1LA4	352	A504_574.2 P80 BN80A4	350
3.2	1505	1.9	542.0	27810	A604_542.0 S1 M1LA4	372	A604_542.0 P80 BN80A4	370
3.2	1505	1.3	542.0	27780	A554_542.0 S1 M1LA4	362	A554_542.0 P80 BN80A4	360
3.2	1470	1.0	529.5	18320	A504_529.5 S1 M1LA4	352	A504_529.5 P80 BN80A4	350
3.4	1405	1.4	505.9	27780	A554_505.9 S1 M1LA4	362	A554_505.9 P80 BN80A4	360
3.4	1389	2.0	500.3	27810	A604_500.3 S1 M1LA4	372	A604_500.3 P80 BN80A4	370
3.6	1337	1.1	481.6	18320	A504_481.6 S1 M1LA4	352	A504_481.6 P80 BN80A4	350
3.8	1241	1.2	446.8	18320	A504_446.8 S1 M1LA4	352	A504_446.8 P80 BN80A4	350
3.9	1217	2.3	438.4	27810	A604_438.4 S1 M1LA4	372	A604_438.4 P80 BN80A4	370
4.1	1149	1.6	414.0	27780	A554_414.0 S1 M1LA4	362	A554_414.0 P80 BN80A4	360
4.2	1129	1.3	406.4	18320	A504_406.4 S1 M1LA4	352	A504_406.4 P80 BN80A4	350
4.2	1124	2.5	404.7	27810	A604_404.7 S1 M1LA4	372	A604_404.7 P80 BN80A4	370
4.7	1015	1.5	365.6	18320	A504_365.6 S1 M1LA4	352	A504_365.6 P80 BN80A4	350

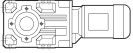

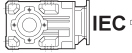




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n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
4.9	975	2.9	351.2	27810	A604_351.2 S1 M1LA4	372	A604_351.2 P80 BN80A4	370
5.1	924	1.6	332.6	18320	A504_332.6 S1 M1LA4	352	A504_332.6 P80 BN80A4	350
5.3	902	2.1	324.7	27780	A554_324.7 S1 M1LA4	362	A554_324.7 P80 BN80A4	360
5.3	920	0.9	324.2	27810	A604_324.2 S1 M1LA4	372	A604_324.2 P80 BN80A4	370
5.9	828	1.0	291.7	13755	A413_291.7 S1 M1LA4	342	A413_291.7 P80 BN80A4	340
6.0	796	1.9	286.8	18320	A504_286.8 S1 M1LA4	352	A504_286.8 P80 BN80A4	350
6.5	729	2.5	262.6	27780	A554_262.6 S1 M1LA4	362	A554_262.6 P80 BN80A4	360
6.5	745	1.1	262.5	13755	A413_262.5 S1 M1LA4	342	A413_262.5 P80 BN80A4	340
6.6	724	2.1	260.9	18320	A504_260.9 S1 M1LA4	352	A504_260.9 P80 BN80A4	350
7.1	683	1.2	240.6	13755	A413_240.6 S1 M1LA4	342	A413_240.6 P80 BN80A4	340
7.4	644	2.3	232.0	18320	A504_232.0 S1 M1LA4	352	A504_232.0 P80 BN80A4	350
7.9	617	1.4	217.4	13755	A413_217.4 S1 M1LA4	342	A413_217.4 P80 BN80A4	340
8.1	586	2.6	211.0	18320	A504_211.0 S1 M1LA4	352	A504_211.0 P80 BN80A4	350
8.5	573	1.0	201.8	11112	A353_201.8 S1 M1LA4	332	A353_201.8 P80 BN80A4	330
8.7	561	1.5	197.5	13755	A413_197.5 S1 M1LA4	342	A413_197.5 P80 BN80A4	340
9.0	541	2.8	190.6	18320	A503_190.6 S1 M1LA4	352	A503_190.6 P80 BN80A4	350
9.1	535	1.0	188.3	11112	A353_188.3 S1 M1LA4	332	A353_188.3 P80 BN80A4	330
9.3	523	1.6	184.4	13755	A413_184.4 S1 M1LA4	342	A413_184.4 P80 BN80A4	340
10.0	488	1.1	171.8	11112	A353_171.8 S1 M1LA4	332	A353_171.8 P80 BN80A4	330
11.4	428	1.3	150.6	11112	A353_150.6 S1 M1LA4	332	A353_150.6 P80 BN80A4	330
11.6	417	2.0	146.9	13755	A413_146.9 S1 M1LA4	342	A413_146.9 P80 BN80A4	340
12.5	387	1.4	136.3	11112	A353_136.3 S1 M1LA4	332	A353_136.3 P80 BN80A4	330
14.6	332	1.6	116.9	11112	A353_116.9 S1 M1LA4	332	A353_116.9 P80 BN80A4	330
14.8	329	2.4	115.9	13755	A413_115.9 S1 M1LA4	342	A413_115.9 P80 BN80A4	340
16.2	300	1.6	105.5	11112	A353_105.5 S1 M1LA4	332	A353_105.5 P80 BN80A4	330
17.5	286	1.0	97.5	8794			A302_97.5 P80 BN80A4	320
17.9	281	1.9	95.6	11112	A352_95.6 S1 M1LA4	332	A352_95.6 P80 BN80A4	330
18.4	263	2.8	92.8	13755	A413_92.8 S1 M1LA4	342	A413_92.8 P80 BN80A4	340
19.7	254	1.3	86.7	8629			A302_86.7 P80 BN80A4	320
20.7	242	2.5	82.5	11112	A352_82.5 S1 M1LA4	332	A352_82.5 P80 BN80A4	330
22.3	224	1.6	76.5	8409	A302_76.5 S1 M1LA4	322	A302_76.5 P80 BN80A4	320
23.0	218	2.8	74.3	11112	A352_74.3 S1 M1LA4	332	A352_74.3 P80 BN80A4	330
24.1	208	0.9	71.0	5166			A202_71.0 P80 BN80A4	310
25.9	194	2.0	66.0	8134	A302_66.0 S1 M1LA4	322	A302_66.0 P80 BN80A4	320
27.1	185	1.2	63.1	5349	A202_63.1 S1 M1LA4	312	A202_63.1 P80 BN80A4	310
28.8	174	2.3	59.4	7933	A302_59.4 S1 M1LA4	322	A302_59.4 P80 BN80A4	320
32	157	1.6	53.7	5194	A202_53.7 S1 M1LA4	312	A202_53.7 P80 BN80A4	310
32	154	2.7	52.7	7704	A302_52.7 S1 M1LA4	322	A302_52.7 P80 BN80A4	320
33	150	1.0	51.3	4402	A102_51.3 S1 M1LA4	302	A102_51.3 P80 BN80A4	300
35	142	1.8	48.3	5093	A202_48.3 S1 M1LA4	312	A202_48.3 P80 BN80A4	310
35	142	2.9	48.3	7539	A302_48.3 S1 M1LA4	322	A302_48.3 P80 BN80A4	320
38	133	1.1	45.4	4439	A102_45.4 S1 M1LA4	302	A102_45.4 P80 BN80A4	300
40	127	2.0	43.2	4983	A202_43.2 S1 M1LA4	312	A202_43.2 P80 BN80A4	310
42	120	1.3	40.9	4972	A102_40.9 S1 M1LA4	302	A102_40.9 P80 BN80A4	300
43	116	2.2	39.6	4891	A202_39.6 S1 M1LA4	312	A202_39.6 P80 BN80A4	310
48	104	2.4	35.4	4763	A202_35.4 S1 M1LA4	312	A202_35.4 P80 BN80A4	310
49	103	1.0	35.1	2396	A052_35.1 S1 M1LA4	295	A052_35.1 P80 BN80A4	294
49	103	1.5	35.1	4249	A102_35.1 S1 M1LA4	302	A102_35.1 P80 BN80A4	300
53	94	1.1	32.2	2441	A052_32.2 S1 M1LA4	295	A052_32.2 P80 BN80A4	294
53	94	1.6	32.2	4963	A102_32.2 S1 M1LA4	302	A102_32.2 P80 BN80A4	300
55	92	2.7	31.3	4635	A202_31.3 S1 M1LA4	312	A202_31.3 P80 BN80A4	310
59	86	2.9	29.2	4553	A202_29.2 S1 M1LA4	312	A202_29.2 P80 BN80A4	310
60	84	1.2	28.6	2305	A052_28.6 S1 M1LA4	295	A052_28.6 P80 BN80A4	294
60	84	1.8	28.6	4077	A102_28.6 S1 M1LA4	302	A102_28.6 P80 BN80A4	300
67	75	1.3	25.5	2269	A052_25.5 S1 M1LA4	295	A052_25.5 P80 BN80A4	294
67	75	2.0	25.5	4728	A102_25.5 S1 M1LA4	302	A102_25.5 P80 BN80A4	300
72	70	1.4	23.8	2251	A052_23.8 S1 M1LA4	295	A052_23.8 P80 BN80A4	294
72	70	2.2	23.8	3914	A102_23.8 S1 M1LA4	302	A102_23.8 P80 BN80A4	300
80	63	1.6	21.4	2215	A052_21.4 S1 M1LA4	295	A052_21.4 P80 BN80A4	294
80	63	2.4	21.4	4538	A102_21.4 S1 M1LA4	302	A102_21.4 P80 BN80A4	300
92	54	1.7	18.6	2170	A052_18.6 S1 M1LA4	295	A052_18.6 P80 BN80A4	294
92	54	2.7	18.6	3697	A102_18.6 S1 M1LA4	302	A102_18.6 P80 BN80A4	300
104	48	1.9	16.4	2115	A052_16.4 S1 M1LA4	295	A052_16.4 P80 BN80A4	294
104	48	2.9	16.4	4258	A102_16.4 S1 M1LA4	302	A102_16.4 P80 BN80A4	300
123	41	2.3	13.9	2052	A052_13.9 S1 M1LA4	295	A052_13.9 P80 BN80A4	294
139	36	2.8	12.3	2007	A052_12.3 S1 M1LA4	295	A052_12.3 P80 BN80A4	294
162	31	3.0	10.6	1926	A052_10.6 S1 M1LA4	295	A052_10.6 P80 BN80A4	294



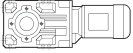




## 0.75 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
1.1	5956	2.4	1632.3	69675	A904_1632 S2 ME2SB4	398	A904_1632 P80 BE80B4	396
1.1	5684	1.4	1557.7	60320	A804_1558 S2 ME2SB4	390	A804_1558 P80 BE80B4	388
1.2	5498	2.5	1506.8	69675	A904_1507 S2 ME2SB4	398	A904_1507 P80 BE80B4	396
1.2	5247	1.5	1437.8	60320	A804_1438 S2 ME2SB4	390	A804_1438 P80 BE80B4	388
1.3	4911	1.0	1345.9	46350	A704_1346 S2 ME2SB4	382	A704_1346 P80 BE80B4	380
1.3	4889	1.6	1339.9	60320	A804_1340 S2 ME2SB4	390	A804_1340 P80 BE80B4	388
1.3	4831	2.9	1324.0	69675	A904_1324 S2 ME2SB4	398	A904_1324 P80 BE80B4	396
1.4	4533	1.1	1242.3	46350	A704_1242 S2 ME2SB4	382	A704_1242 P80 BE80B4	380
1.4	4513	1.8	1236.9	60320	A804_1237 S2 ME2SB4	390	A804_1237 P80 BE80B4	388
1.5	4238	1.2	1161.5	46350	A704_1161 S2 ME2SB4	382	A704_1161 P80 BE80B4	380
1.6	3959	2.0	1084.9	60320	A804_1085 S2 ME2SB4	390	A804_1085 P80 BE80B4	388
1.6	3912	1.3	1072.1	46350	A704_1072 S2 ME2SB4	382	A704_1072 P80 BE80B4	380
1.7	3654	2.2	1001.4	60320	A804_1001 S2 ME2SB4	390	A804_1001 P80 BE80B4	388
1.9	3381	1.5	926.5	46350	A704_926.5 S2 ME2SB4	382	A704_926.5 P80 BE80B4	380
1.9	3279	2.4	898.7	60320	A804_898.7 S2 ME2SB4	390	A804_898.7 P80 BE80B4	388
2.0	3121	1.6	855.3	46350	A704_855.3 S2 ME2SB4	382	A704_855.3 P80 BE80B4	380
2.1	3027	2.6	829.5	60320	A804_829.5 S2 ME2SB4	390	A804_829.5 P80 BE80B4	388
2.3	2787	1.8	763.9	46350	A704_763.9 S2 ME2SB4	382	A704_763.9 P80 BE80B4	380
2.3	2781	2.9	762.1	60320	A804_762.1 S2 ME2SB4	390	A804_762.1 P80 BE80B4	388
2.3	2756	1.0	755.4	27810	A604_755.4 S2 ME2SB4	372	A604_755.4 P80 BE80B4	370
2.5	2573	1.9	705.1	46350	A704_705.1 S2 ME2SB4	382	A704_705.1 P80 BE80B4	380
2.5	2544	1.1	697.3	27810	A604_697.3 S2 ME2SB4	372	A604_697.3 P80 BE80B4	370
2.7	2352	2.1	644.6	46350	A704_644.6 S2 ME2SB4	382	A704_644.6 P80 BE80B4	380
2.7	2316	1.2	634.6	27810	A604_634.6 S2 ME2SB4	372	A604_634.6 P80 BE80B4	370
2.9	2171	2.3	595.0	46350	A704_595.0 S2 ME2SB4	382	A704_595.0 P80 BE80B4	380
3.0	2137	1.3	585.8	27810	A604_585.8 S2 ME2SB4	372	A604_585.8 P80 BE80B4	370
3.2	1978	1.4	542.0	27810	A604_542.0 S2 ME2SB4	372	A604_542.0 P80 BE80B4	370
3.2	1978	1.0	542.0	27780	A554_542.0 S2 ME2SB4	362	A554_542.0 P80 BE80B4	360
3.4	1881	2.7	515.4	46350	A704_515.4 S2 ME2SB4	382	A704_515.4 P80 BE80B4	380
3.4	1846	1.0	505.9	27780	A554_505.9 S2 ME2SB4	362	A554_505.9 P80 BE80B4	360
3.5	1826	1.5	500.3	27810	A604_500.3 S2 ME2SB4	372	A604_500.3 P80 BE80B4	370
3.7	1736	2.9	475.8	46350	A704_475.8 S2 ME2SB4	382	A704_475.8 P80 BE80B4	380
3.9	1630	0.9	446.8	18320	A504_446.8 S2 ME2SB4	352	A504_446.8 P80 BE80B4	350
4.0	1600	1.8	438.4	27810	A604_438.4 S2 ME2SB4	372	A604_438.4 P80 BE80B4	370
4.2	1511	1.2	414.0	27780	A554_414.0 S2 ME2SB4	362	A554_414.0 P80 BE80B4	360
4.3	1483	1.0	406.4	18320	A504_406.4 S2 ME2SB4	352	A504_406.4 P80 BE80B4	350
4.3	1477	1.9	404.7	27810	A604_404.7 S2 ME2SB4	372	A604_404.7 P80 BE80B4	370
4.8	1334	1.1	365.6	18320	A504_365.6 S2 ME2SB4	352	A504_365.6 P80 BE80B4	350
5.0	1282	2.2	351.2	27810	A604_351.2 S2 ME2SB4	372	A604_351.2 P80 BE80B4	370
5.2	1214	1.2	332.6	18320	A504_332.6 S2 ME2SB4	352	A504_332.6 P80 BE80B4	350
5.4	1185	1.6	324.7	27780	A554_324.7 S2 ME2SB4	362	A554_324.7 P80 BE80B4	360
5.4	1183	2.4	324.2	27810	A604_324.2 S2 ME2SB4	372	A604_324.2 P80 BE80B4	370
6.1	1047	1.4	286.8	18320	A504_286.8 S2 ME2SB4	352	A504_286.8 P80 BE80B4	350
6.1	1045	2.7	286.3	27810	A604_286.3 S2 ME2SB4	372	A604_286.3 P80 BE80B4	370
6.6	964	2.9	264.3	27810	A604_264.3 S2 ME2SB4	372	A604_264.3 P80 BE80B4	370
6.6	958	1.9	262.6	27780	A554_262.6 S2 ME2SB4	362	A554_262.6 P80 BE80B4	360
6.7	952	1.6	260.9	18320	A504_260.9 S2 ME2SB4	352	A504_260.9 P80 BE80B4	350
7.3	898	0.9	240.6	13755	A413_240.6 S2 ME2SB4	342	A413_240.6 P80 BE80B4	340
7.5	847	1.8	232.0	18320	A504_232.0 S2 ME2SB4	352	A504_232.0 P80 BE80B4	350
8.0	811	1.0	217.4	13755	A413_217.4 S2 ME2SB4	342	A413_217.4 P80 BE80B4	340
8.3	770	1.9	211.0	18320	A504_211.0 S2 ME2SB4	352	A504_211.0 P80 BE80B4	350
8.4	759	2.4	208.1	27780	A554_208.1 S2 ME2SB4	362	A554_208.1 P80 BE80B4	360
8.8	737	1.2	197.5	13755	A413_197.5 S2 ME2SB4	342	A413_197.5 P80 BE80B4	340
9.0	725	2.8	194.2	27780	A553_194.2 S2 ME2SB4	362	A553_194.2 P80 BE80B4	360
9.2	711	2.1	190.6	18320	A503_190.6 S2 ME2SB4	352	A503_190.6 P80 BE80B4	350
9.5	688	1.2	184.4	13755	A413_184.4 S2 ME2SB4	342	A413_184.4 P80 BE80B4	340
10.1	647	2.3	173.4	18320	A503_173.4 S2 ME2SB4	352	A503_173.4 P80 BE80B4	350
11.3	577	2.6	154.6	18320	A503_154.6 S2 ME2SB4	352	A503_154.6 P80 BE80B4	350
11.6	562	1.0	150.6	11112	A353_150.6 S2 ME2SB4	332	A353_150.6 P80 BE80B4	330
11.9	548	1.6	146.9	13755	A413_146.9 S2 ME2SB4	342	A413_146.9 P80 BE80B4	340
12.4	525	2.9	140.6	18320	A503_140.6 S2 ME2SB4	352	A503_140.6 P80 BE80B4	350
12.8	509	1.0	136.3	11112	A353_136.3 S2 ME2SB4	332	A353_136.3 P80 BE80B4	330
14.9	436	1.2	116.9	11112	A353_116.9 S2 ME2SB4	332	A353_116.9 P80 BE80B4	330
15.1	432	1.9	115.9	13755	A413_115.9 S2 ME2SB4	342	A413_115.9 P80 BE80B4	340
16.5	394	1.2	105.5	11112	A353_105.5 S2 ME2SB4	332	A353_105.5 P80 BE80B4	330

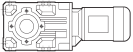








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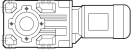

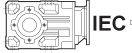


n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
18.2	369	1.5	95.6	11112	A352_95.6 S2 ME2SB4	332	A352_95.6 P80 BE80B4	330
18.8	346	2.1	92.8	13755	A413_92.8 S2 ME2SB4	342	A413_92.8 P80 BE80B4	340
20.1	334	1.0	86.7	7969	A302_86.7 S2 ME2SB4	322	A302_86.7 P80 BE80B4	320
21.1	318	1.9	82.5	11112	A352_82.5 S2 ME2SB4	332	A352_82.5 P80 BE80B4	330
22.0	305	2.6	79.2	13755	A412_79.2 S2 ME2SB4	342	A412_79.2 P80 BE80B4	340
22.8	295	1.2	76.5	7859	A302_76.5 S2 ME2SB4	322	A302_76.5 P80 BE80B4	320
23.5	286	2.1	74.3	11112	A352_74.3 S2 ME2SB4	332	A352_74.3 P80 BE80B4	330
24.5	275	2.9	71.3	13755	A412_71.3 S2 ME2SB4	342	A412_71.3 P80 BE80B4	340
26.4	254	1.5	66.0	7658	A302_66.0 S2 ME2SB4	322	A302_66.0 P80 BE80B4	320
26.5	254	2.4	65.8	11112	A352_65.8 S2 ME2SB4	332	A352_65.8 P80 BE80B4	330
27.6	243	0.9	63.1	4717	A202_63.1 S2 ME2SB4	312	A202_63.1 P80 BE80B4	310
28.9	233	2.6	60.4	11112	A352_60.4 S2 ME2SB4	332	A352_60.4 P80 BE80B4	330
29.4	229	1.7	59.4	7502	A302_59.4 S2 ME2SB4	322	A302_59.4 P80 BE80B4	320
32	209	2.9	54.3	11112	A352_54.3 S2 ME2SB4	332	A352_54.3 P80 BE80B4	330
33	207	1.2	53.7	4772	A202_53.7 S2 ME2SB4	312	A202_53.7 P80 BE80B4	310
33	203	2.0	52.7	7319	A302_52.7 S2 ME2SB4	322	A302_52.7 P80 BE80B4	320
36	186	1.3	48.3	4708	A202_48.3 S2 ME2SB4	312	A202_48.3 P80 BE80B4	310
36	186	2.2	48.3	7181	A302_48.3 S2 ME2SB4	322	A302_48.3 P80 BE80B4	320
40	167	2.4	43.4	7017	A302_43.4 S2 ME2SB4	322	A302_43.4 P80 BE80B4	320
40	167	1.5	43.2	4635	A202_43.2 S2 ME2SB4	312	A202_43.2 P80 BE80B4	310
43	157	1.0	40.9	3996	A102_40.9 S2 ME2SB4	302	A102_40.9 P80 BE80B4	300
44	153	1.6	39.6	4571	A202_39.6 S2 ME2SB4	312	A202_39.6 P80 BE80B4	310
44	151	2.7	39.3	6852	A302_39.3 S2 ME2SB4	322	A302_39.3 P80 BE80B4	320
48	141	2.9	36.6	6742	A302_36.6 S2 ME2SB4	322	A302_36.6 P80 BE80B4	320
49	137	1.8	35.4	4479	A202_35.4 S2 ME2SB4	312	A202_35.4 P80 BE80B4	310
50	135	1.1	35.1	3905	A102_35.1 S2 ME2SB4	302	A102_35.1 P80 BE80B4	300
54	124	1.2	32.2	4592	A102_32.2 S2 ME2SB4	302	A102_32.2 P80 BE80B4	300
56	121	2.1	31.3	4378	A202_31.3 S2 ME2SB4	312	A202_31.3 P80 BE80B4	310
60	113	2.2	29.2	4314	A202_29.2 S2 ME2SB4	312	A202_29.2 P80 BE80B4	310
61	110	0.9	28.6	2097	A052_28.6 S2 ME2SB4	295	A052_28.6 P80 BE80B4	294
61	110	1.4	28.6	3797	A102_28.6 S2 ME2SB4	302	A102_28.6 P80 BE80B4	300
66	102	2.4	26.5	4232	A202_26.5 S2 ME2SB4	312	A202_26.5 P80 BE80B4	310
69	98	1.0	25.5	2124	A052_25.5 S2 ME2SB4	295	A052_25.5 P80 BE80B4	294
69	98	1.5	25.5	4430	A102_25.5 S2 ME2SB4	302	A102_25.5 P80 BE80B4	300
73	92	1.1	23.8	1989	A052_23.8 S2 ME2SB4	295	A052_23.8 P80 BE80B4	294
73	92	1.6	23.8	3679	A102_23.8 S2 ME2SB4	302	A102_23.8 P80 BE80B4	300
76	89	2.6	23.1	4104	A202_23.1 S2 ME2SB4	312	A202_23.1 P80 BE80B4	310
82	82	1.2	21.4	1998	A052_21.4 S2 ME2SB4	295	A052_21.4 P80 BE80B4	294
82	82	1.8	21.4	4285	A102_21.4 S2 ME2SB4	302	A102_21.4 P80 BE80B4	300
82	82	2.8	21.2	4021	A202_21.2 S2 ME2SB4	312	A202_21.2 P80 BE80B4	310
94	72	1.3	18.6	1980	A052_18.6 S2 ME2SB4	295	A052_18.6 P80 BE80B4	294
94	72	2.1	18.6	3508	A102_18.6 S2 ME2SB4	302	A102_18.6 P80 BE80B4	300
106	63	1.5	16.4	1953	A052_16.4 S2 ME2SB4	295	A052_16.4 P80 BE80B4	294
106	63	2.2	16.4	4059	A102_16.4 S2 ME2SB4	302	A102_16.4 P80 BE80B4	300
125	54	1.7	13.9	1907	A052_13.9 S2 ME2SB4	295	A052_13.9 P80 BE80B4	294
125	54	2.6	13.9	3291	A102_13.9 S2 ME2SB4	302	A102_13.9 P80 BE80B4	300
142	47	2.1	12.3	1880	A052_12.3 S2 ME2SB4	295	A052_12.3 P80 BE80B4	294
142	47	2.7	12.3	3191	A102_12.3 S2 ME2SB4	302	A102_12.3 P80 BE80B4	300
165	41	2.3	10.6	1817	A052_10.6 S2 ME2SB4	295	A052_10.6 P80 BE80B4	294
181	37	2.6	9.6	1799	A052_9.6 S2 ME2SB4	295	A052_9.6 P80 BE80B4	294
205	33	2.8	8.5	1754	A052_8.5 S2 ME2SB4	295	A052_8.5 P80 BE80B4	294

## 1.1 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
1.1	8717	1.6	1632.3	69675	A904_1632 S3 ME3SA4	398	A904_1632 P90 BE90S4	396
1.1	8318	1.0	1557.7	60320	A804_1558 S3 ME3SA4	390	A804_1558 P90 BE90S4	388

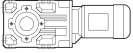






## 1.1 kW

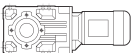




n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
1.2	8046	1.7	1506.8	69675	A904_1507 S3 ME3SA4	398	A904_1507 P90 BE90S4	396
1.2	7678	1.0	1437.8	60320	A804_1438 S3 ME3SA4	390	A804_1438 P90 BE90S4	388
1.3	7155	1.1	1339.9	60320	A804_1340 S3 ME3SA4	390	A804_1340 P90 BE90S4	388
1.3	7070	2.0	1324.0	69675	A904_1324 S3 ME3SA4	398	A904_1324 P90 BE90S4	396
1.4	6605	1.2	1236.9	60320	A804_1237 S3 ME3SA4	390	A804_1237 P90 BE90S4	388
1.4	6526	2.1	1222.2	69675	A904_1222 S3 ME3SA4	398	A904_1222 P90 BE90S4	396
1.6	5931	2.4	1110.6	69675	A904_1111 S3 ME3SA4	398	A904_1111 P90 BE90S4	396
1.6	5793	1.4	1084.9	60320	A804_1085 S3 ME3SA4	390	A804_1085 P90 BE90S4	388
1.7	5474	2.6	1025.2	69675	A904_1025 S3 ME3SA4	398	A904_1025 P90 BE90S4	396
1.7	5348	1.5	1001.4	60320	A804_1001 S3 ME3SA4	390	A804_1001 P90 BE90S4	388
1.9	5005	2.8	937.2	69675	A904_937.2 S3 ME3SA4	398	A904_937.2 P90 BE90S4	396
1.9	4948	1.0	926.5	46350	A704_926.5 S3 ME3SA4	382	A704_926.5 P90 BE90S4	380
1.9	4799	1.7	898.7	60320	A804_898.7 S3 ME3SA4	390	A804_898.7 P90 BE90S4	388
2.0	4567	1.1	855.3	46350	A704_855.3 S3 ME3SA4	382	A704_855.3 P90 BE90S4	380
2.1	4430	1.8	829.5	60320	A804_829.5 S3 ME3SA4	390	A804_829.5 P90 BE90S4	388
2.3	4079	1.2	763.9	46350	A704_763.9 S3 ME3SA4	382	A704_763.9 P90 BE90S4	380
2.3	4070	2.0	762.1	60320	A804_762.1 S3 ME3SA4	390	A804_762.1 P90 BE90S4	388
2.5	3765	1.3	705.1	46350	A704_705.1 S3 ME3SA4	382	A704_705.1 P90 BE90S4	380
2.5	3756	2.1	703.5	60320	A804_703.5 S3 ME3SA4	390	A804_703.5 P90 BE90S4	388
2.7	3442	1.5	644.6	46350	A704_644.6 S3 ME3SA4	382	A704_644.6 P90 BE90S4	380
2.9	3242	2.5	607.2	60320	A804_607.2 S3 ME3SA4	390	A804_607.2 P90 BE90S4	388
2.9	3177	1.6	595.0	46350	A704_595.0 S3 ME3SA4	382	A704_595.0 P90 BE90S4	380
3.1	2993	2.7	560.5	60320	A804_560.5 S3 ME3SA4	390	A804_560.5 P90 BE90S4	388
3.2	2894	1.0	542.0	27810	A604_542.0 S3 ME3SA4	372	A604_542.0 P90 BE90S4	370
3.4	2752	1.8	515.4	46350	A704_515.4 S3 ME3SA4	382	A704_515.4 P90 BE90S4	380
3.5	2672	1.0	500.3	27810	A604_500.3 S3 ME3SA4	372	A604_500.3 P90 BE90S4	370
3.7	2541	2.0	475.8	46350	A704_475.8 S3 ME3SA4	382	A704_475.8 P90 BE90S4	380
4.0	2341	1.2	438.4	27810	A604_438.4 S3 ME3SA4	372	A604_438.4 P90 BE90S4	370
4.3	2161	1.3	404.7	27810	A604_404.7 S3 ME3SA4	372	A604_404.7 P90 BE90S4	370
4.3	2137	2.3	400.2	46350	A704_400.2 S3 ME3SA4	382	A704_400.2 P90 BE90S4	380
4.7	1973	2.5	369.4	46350	A704_369.4 S3 ME3SA4	382	A704_369.4 P90 BE90S4	380
5.0	1875	1.5	351.2	27810	A604_351.2 S3 ME3SA4	372	A604_351.2 P90 BE90S4	370
5.4	1734	1.1	324.7	27780	A554_324.7 S3 ME3SA4	362	A554_324.7 P90 BE90S4	360
5.4	1731	1.6	324.2	27810	A604_324.2 S3 ME3SA4	372	A604_324.2 P90 BE90S4	370
5.5	1689	3.0	316.4	46350	A704_316.4 S3 ME3SA4	382	A704_316.4 P90 BE90S4	380
6.1	1532	1.0	286.8	18320	A504_286.8 S3 ME3SA4	352	A504_286.8 P90 BE90S4	350
6.1	1529	1.8	286.3	27810	A604_286.3 S3 ME3SA4	372	A604_286.3 P90 BE90S4	370
6.6	1411	2.0	264.3	27810	A604_264.3 S3 ME3SA4	372	A604_264.3 P90 BE90S4	370
6.6	1403	1.3	262.6	27780	A554_262.6 S3 ME3SA4	362	A554_262.6 P90 BE90S4	360
6.7	1393	1.1	260.9	18320	A504_260.9 S3 ME3SA4	352	A504_260.9 P90 BE90S4	350
7.5	1239	1.2	232.0	18320	A504_232.0 S3 ME3SA4	352	A504_232.0 P90 BE90S4	350
7.7	1208	2.3	226.1	27810	A604_226.1 S3 ME3SA4	372	A604_226.1 P90 BE90S4	370
8.2	1127	1.3	211.0	18320	A504_211.0 S3 ME3SA4	352	A504_211.0 P90 BE90S4	350
8.3	1115	2.5	208.7	27810	A604_208.7 S3 ME3SA4	372	A604_208.7 P90 BE90S4	370
8.4	1111	1.6	208.1	27780	A554_208.1 S3 ME3SA4	362	A554_208.1 P90 BE90S4	360
9.0	1060	1.9	194.2	27780	A553_194.2 S3 ME3SA4	362	A553_194.2 P90 BE90S4	360
9.1	1041	1.4	190.6	18320	A503_190.6 S3 ME3SA4	352	A503_190.6 P90 BE90S4	350
9.4	1014	2.8	185.8	27810	A603_185.8 S3 ME3SA4	372	A603_185.8 P90 BE90S4	370
9.9	956	2.1	175.0	27780	A553_175.0 S3 ME3SA4	362	A553_175.0 P90 BE90S4	360
10.0	947	1.6	173.4	18320	A503_173.4 S3 ME3SA4	352	A503_173.4 P90 BE90S4	350
10.1	936	3.0	171.5	27810	A603_171.5 S3 ME3SA4	372	A603_171.5 P90 BE90S4	370
10.8	876	2.3	160.4	27780	A553_160.4 S3 ME3SA4	362	A553_160.4 P90 BE90S4	360
11.3	844	1.8	154.6	18320	A503_154.6 S3 ME3SA4	352	A503_154.6 P90 BE90S4	350
11.8	802	1.1	146.9	13755	A413_146.9 S3 ME3SA4	342	A413_146.9 P90 BE90S4	340
11.9	802	2.5	146.8	27780	A553_146.8 S3 ME3SA4	362	A553_146.8 P90 BE90S4	360
12.4	768	2.0	140.6	18320	A503_140.6 S3 ME3SA4	352	A503_140.6 P90 BE90S4	350
13.1	725	2.8	132.7	27780	A553_132.7 S3 ME3SA4	362	A553_132.7 P90 BE90S4	360
13.4	708	2.1	129.7	18320	A503_129.7 S3 ME3SA4	352	A503_129.7 P90 BE90S4	350
14.0	676	3.0	123.9	27780	A553_123.9 S3 ME3SA4	362	A553_123.9 P90 BE90S4	360
14.8	644	2.3	118.0	18320	A503_118.0 S3 ME3SA4	352	A503_118.0 P90 BE90S4	350
15.0	633	1.3	115.9	13755	A413_115.9 S3 ME3SA4	342	A413_115.9 P90 BE90S4	340
15.9	597	2.5	109.4	18320	A503_109.4 S3 ME3SA4	352	A503_109.4 P90 BE90S4	350
17.5	543	2.8	99.5	18320	A503_99.5 S3 ME3SA4	352	A503_99.5 P90 BE90S4	350
18.2	539	1.0	95.6	11112	A352_95.6 S3 ME3SA4	332	A352_95.6 P90 BE90S4	330
18.8	507	1.5	92.8	13755	A413_92.8 S3 ME3SA4	342	A413_92.8 P90 BE90S4	340



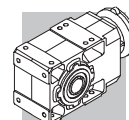
## 1.1 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
21.1	466	1.3	82.5	11112	A352_82.5 S3 ME3SA4	332	A352_82.5 P90 BE90S4	330
22.0	447	1.8	79.2	13755	A412_79.2 S3 ME3SA4	342	A412_79.2 P90 BE90S4	340
23.4	419	1.4	74.3	11112	A352_74.3 S3 ME3SA4	332	A352_74.3 P90 BE90S4	330
24.4	402	2.0	71.3	13755	A412_71.3 S3 ME3SA4	342	A412_71.3 P90 BE90S4	340
26.4	372	1.0	66.0	6760	A302_66.0 S3 ME3SA4	322	A302_66.0 P90 BE90S4	320
26.4	371	1.6	65.8	11112	A352_65.8 S3 ME3SA4	332	A352_65.8 P90 BE90S4	330
27.1	362	2.2	64.2	13755	A412_64.2 S3 ME3SA4	342	A412_64.2 P90 BE90S4	340
28.8	340	1.8	60.4	11112	A352_60.4 S3 ME3SA4	332	A352_60.4 P90 BE90S4	330
29.3	335	1.2	59.4	6797	A302_59.4 S3 ME3SA4	322	A302_59.4 P90 BE90S4	320
29.6	332	2.4	58.8	13755	A412_58.8 S3 ME3SA4	342	A412_58.8 P90 BE90S4	340
32	306	2.0	54.3	11112	A352_54.3 S3 ME3SA4	332	A352_54.3 P90 BE90S4	330
33	300	2.6	53.1	13755	A412_53.1 S3 ME3SA4	342	A412_53.1 P90 BE90S4	340
33	297	1.4	52.7	6696	A302_52.7 S3 ME3SA4	322	A302_52.7 P90 BE90S4	320
35	277	2.2	49.1	10927	A352_49.1 S3 ME3SA4	332	A352_49.1 P90 BE90S4	330
36	272	0.9	48.3	4186	A202_48.3 S3 ME3SA4	312	A202_48.3 P90 BE90S4	310
36	272	1.5	48.3	6614	A302_48.3 S3 ME3SA4	322	A302_48.3 P90 BE90S4	320
36	272	2.9	48.3	13755	A412_48.3 S3 ME3SA4	342	A412_48.3 P90 BE90S4	340
38	258	2.3	45.8	10834	A352_45.8 S3 ME3SA4	332	A352_45.8 P90 BE90S4	330
40	245	1.7	43.4	6504	A302_43.4 S3 ME3SA4	322	A302_43.4 P90 BE90S4	320
40	244	1.0	43.2	4076	A202_43.2 S3 ME3SA4	312	A202_43.2 P90 BE90S4	310
42	236	2.5	41.8	10556	A352_41.8 S3 ME3SA4	332	A352_41.8 P90 BE90S4	330
44	223	1.1	39.6	4122	A202_39.6 S3 ME3SA4	312	A202_39.6 P90 BE90S4	310
44	221	1.9	39.3	6385	A302_39.3 S3 ME3SA4	322	A302_39.3 P90 BE90S4	320
47	207	2.0	36.6	6302	A302_36.6 S3 ME3SA4	322	A302_36.6 P90 BE90S4	320
48	207	2.9	36.6	10279	A352_36.6 S3 ME3SA4	332	A352_36.6 P90 BE90S4	330
49	200	1.3	35.4	4012	A202_35.4 S3 ME3SA4	312	A202_35.4 P90 BE90S4	310
52	189	2.1	33.4	6192	A302_33.4 S3 ME3SA4	322	A302_33.4 P90 BE90S4	320
56	177	1.4	31.3	3957	A202_31.3 S3 ME3SA4	312	A202_31.3 P90 BE90S4	310
59	165	2.3	29.3	6027	A302_29.3 S3 ME3SA4	322	A302_29.3 P90 BE90S4	320
60	165	1.5	29.2	3930	A202_29.2 S3 ME3SA4	312	A202_29.2 P90 BE90S4	310
61	161	0.9	28.6	3372	A102_28.6 S3 ME3SA4	302	A102_28.6 P90 BE90S4	300
66	150	2.5	26.5	5899	A302_26.5 S3 ME3SA4	322	A302_26.5 P90 BE90S4	320
66	149	1.6	26.5	3875	A202_26.5 S3 ME3SA4	312	A202_26.5 P90 BE90S4	310
68	144	1.0	25.5	3272	A102_25.5 S3 ME3SA4	302	A102_25.5 P90 BE90S4	300
73	134	1.1	23.8	3291	A102_23.8 S3 ME3SA4	302	A102_23.8 P90 BE90S4	300
75	130	1.8	23.1	3792	A202_23.1 S3 ME3SA4	312	A202_23.1 P90 BE90S4	310
76	128	3.0	22.8	5698	A302_22.8 S3 ME3SA4	322	A302_22.8 P90 BE90S4	320
81	120	1.2	21.4	3869	A102_21.4 S3 ME3SA4	302	A102_21.4 P90 BE90S4	300
82	120	1.9	21.2	3737	A202_21.2 S3 ME3SA4	312	A202_21.2 P90 BE90S4	310
94	105	1.4	18.6	3200	A102_18.6 S3 ME3SA4	302	A102_18.6 P90 BE90S4	300
96	102	2.3	18.1	3637	A202_18.1 S3 ME3SA4	312	A202_18.1 P90 BE90S4	310
106	93	1.5	16.4	3734	A102_16.4 S3 ME3SA4	302	A102_16.4 P90 BE90S4	300
108	91	2.5	16.2	3554	A202_16.2 S3 ME3SA4	312	A202_16.2 P90 BE90S4	310
124	79	2.9	14.1	3453	A202_14.1 S3 ME3SA4	312	A202_14.1 P90 BE90S4	310
125	79	1.8	13.9	3056	A102_13.9 S3 ME3SA4	302	A102_13.9 P90 BE90S4	300
141	69	1.9	12.3	2983	A102_12.3 S3 ME3SA4	302	A102_12.3 P90 BE90S4	300
145	67	2.9	12.0	3316	A202_12.0 S3 ME3SA4	312	A202_12.0 P90 BE90S4	310
165	60	2.3	10.6	2902	A102_10.6 S3 ME3SA4	302	A102_10.6 P90 BE90S4	300
181	54	2.4	9.6	2839	A102_9.6 S3 ME3SA4	302	A102_9.6 P90 BE90S4	300
204	48	2.7	8.5	3282	A102_8.5 S3 ME3SA4	302	A102_8.5 P90 BE90S4	300

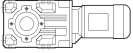

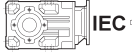


## 1.5 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
1.1	11913	1.2	1632.3	69675	A904_1632 S3 ME3SB4	398	A904_1632 P90 BE90LA4	396
1.2	10996	1.3	1506.8	69675	A904_1507 S3 ME3SB4	398	A904_1507 P90 BE90LA4	396
1.3	9663	1.4	1324.0	69675	A904_1324 S3 ME3SB4	398	A904_1324 P90 BE90LA4	396
1.4	8919	1.6	1222.2	69675	A904_1222 S3 ME3SB4	398	A904_1222 P90 BE90LA4	396
1.6	8105	1.7	1110.6	69675	A904_1111 S3 ME3SB4	398	A904_1111 P90 BE90LA4	396





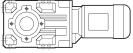



## 1.5 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
1.6	7917	1.0	1084.9	60320	A804_1085 S3 ME3SB4	390	A804_1085 P90 BE90LA4	388
1.7	7482	1.9	1025.2	69675	A904_1025 S3 ME3SB4	398	A904_1025 P90 BE90LA4	396
1.7	7308	1.1	1001.4	60320	A804_1001 S3 ME3SB4	390	A804_1001 P90 BE90LA4	388
1.9	6840	2.0	937.2	69675	A904_937.2 S3 ME3SB4	398	A904_937.2 P90 BE90LA4	396
1.9	6558	1.2	898.7	60320	A804_898.7 S3 ME3SB4	390	A804_898.7 P90 BE90LA4	388
2.0	6313	2.2	865.1	69675	A904_865.1 S3 ME3SB4	398	A904_865.1 P90 BE90LA4	396
2.1	6054	1.3	829.5	60320	A804_829.5 S3 ME3SB4	390	A804_829.5 P90 BE90LA4	388
2.3	5597	2.5	766.9	69675	A904_766.9 S3 ME3SB4	398	A904_766.9 P90 BE90LA4	396
2.3	5562	1.4	762.1	60320	A804_762.1 S3 ME3SB4	390	A804_762.1 P90 BE90LA4	388
2.5	5166	2.7	707.9	69675	A904_707.9 S3 ME3SB4	398	A904_707.9 P90 BE90LA4	396
2.5	5146	1.0	705.1	46350	A704_705.1 S3 ME3SB4	382	A704_705.1 P90 BE90LA4	380
2.5	5134	1.6	703.5	60320	A804_703.5 S3 ME3SB4	390	A804_703.5 P90 BE90LA4	388
2.7	4704	1.1	644.6	46350	A704_644.6 S3 ME3SB4	382	A704_644.6 P90 BE90LA4	380
2.9	4431	1.8	607.2	60320	A804_607.2 S3 ME3SB4	390	A804_607.2 P90 BE90LA4	388
2.9	4343	1.2	595.0	46350	A704_595.0 S3 ME3SB4	382	A704_595.0 P90 BE90LA4	380
3.1	4090	2.0	560.5	60320	A804_560.5 S3 ME3SB4	390	A804_560.5 P90 BE90LA4	388
3.4	3761	1.3	515.4	46350	A704_515.4 S3 ME3SB4	382	A704_515.4 P90 BE90LA4	380
3.6	3495	2.3	478.9	60320	A804_478.9 S3 ME3SB4	390	A804_478.9 P90 BE90LA4	388
3.7	3472	1.4	475.8	46350	A704_475.8 S3 ME3SB4	382	A704_475.8 P90 BE90LA4	380
3.9	3226	2.5	442.1	60320	A804_442.1 S3 ME3SB4	390	A804_442.1 P90 BE90LA4	388
4.3	2953	0.9	404.7	27810	A604_404.7 S3 ME3SB4	372	A604_404.7 P90 BE90LA4	370
4.3	2920	1.7	400.2	46350	A704_400.2 S3 ME3SB4	382	A704_400.2 P90 BE90LA4	380
4.5	2799	2.9	383.5	60320	A804_383.5 S3 ME3SB4	390	A804_383.5 P90 BE90LA4	388
4.7	2696	1.9	369.4	46350	A704_369.4 S3 ME3SB4	382	A704_369.4 P90 BE90LA4	380
5.0	2563	1.1	351.2	27810	A604_351.2 S3 ME3SB4	372	A604_351.2 P90 BE90LA4	370
5.4	2366	1.2	324.2	27810	A604_324.2 S3 ME3SB4	372	A604_324.2 P90 BE90LA4	370
5.5	2309	2.2	316.4	46350	A704_316.4 S3 ME3SB4	382	A704_316.4 P90 BE90LA4	380
6.0	2131	2.3	292.0	46350	A704_292.0 S3 ME3SB4	382	A704_292.0 P90 BE90LA4	380
6.1	2090	1.3	286.3	27810	A604_286.3 S3 ME3SB4	372	A604_286.3 P90 BE90LA4	370
6.6	1929	1.5	264.3	27810	A604_264.3 S3 ME3SB4	372	A604_264.3 P90 BE90LA4	370
6.6	1917	1.0	262.6	27780	A554_262.6 S3 ME3SB4	362	A554_262.6 P90 BE90LA4	360
7.3	1741	2.9	238.6	46350	A704_238.6 S3 ME3SB4	382	A704_238.6 P90 BE90LA4	380
7.7	1650	1.7	226.1	27810	A604_226.1 S3 ME3SB4	372	A604_226.1 P90 BE90LA4	370
8.2	1540	1.0	211.0	18320	A504_211.0 S3 ME3SB4	352	A504_211.0 P90 BE90LA4	350
8.3	1523	1.8	208.7	27810	A604_208.7 S3 ME3SB4	372	A604_208.7 P90 BE90LA4	370
8.4	1518	1.2	208.1	27780	A554_208.1 S3 ME3SB4	362	A554_208.1 P90 BE90LA4	360
9.0	1449	1.4	194.2	27780	A553_194.2 S3 ME3SB4	362	A553_194.2 P90 BE90LA4	360
9.1	1422	1.1	190.6	18320	A503_190.6 S3 ME3SB4	352	A503_190.6 P90 BE90LA4	350
9.4	1386	2.0	185.8	27810	A603_185.8 S3 ME3SB4	372	A603_185.8 P90 BE90LA4	370
9.9	1306	1.5	175.0	27780	A553_175.0 S3 ME3SB4	362	A553_175.0 P90 BE90LA4	360
10.0	1294	1.2	173.4	18320	A503_173.4 S3 ME3SB4	352	A503_173.4 P90 BE90LA4	350
10.1	1279	2.2	171.5	27810	A603_171.5 S3 ME3SB4	372	A603_171.5 P90 BE90LA4	370
10.8	1197	1.7	160.4	27780	A553_160.4 S3 ME3SB4	362	A553_160.4 P90 BE90LA4	360
11.2	1164	2.4	156.0	27810	A603_156.0 S3 ME3SB4	372	A603_156.0 P90 BE90LA4	370
11.3	1154	1.3	154.6	18320	A503_154.6 S3 ME3SB4	352	A503_154.6 P90 BE90LA4	350
11.9	1095	1.8	146.8	27780	A553_146.8 S3 ME3SB4	362	A553_146.8 P90 BE90LA4	360
12.1	1075	2.6	144.0	27810	A603_144.0 S3 ME3SB4	372	A603_144.0 P90 BE90LA4	370
12.4	1049	1.4	140.6	18320	A503_140.6 S3 ME3SB4	352	A503_140.6 P90 BE90LA4	350
13.1	995	2.8	133.3	27810	A603_133.3 S3 ME3SB4	372	A603_133.3 P90 BE90LA4	370
13.1	990	2.0	132.7	27780	A553_132.7 S3 ME3SB4	362	A553_132.7 P90 BE90LA4	360
13.4	968	1.6	129.7	18320	A503_129.7 S3 ME3SB4	352	A503_129.7 P90 BE90LA4	350
14.0	924	2.2	123.9	27780	A553_123.9 S3 ME3SB4	362	A553_123.9 P90 BE90LA4	360
14.8	880	1.7	118.0	18320	A503_118.0 S3 ME3SB4	352	A503_118.0 P90 BE90LA4	350
15.0	865	0.9	115.9	13755	A413_115.9 S3 ME3SB4	342	A413_115.9 P90 BE90LA4	340
15.9	817	1.8	109.4	18320	A503_109.4 S3 ME3SB4	352	A503_109.4 P90 BE90LA4	350
17.2	756	2.6	101.4	27780	A553_101.4 S3 ME3SB4	362	A553_101.4 P90 BE90LA4	360
17.5	743	2.0	99.5	18320	A503_99.5 S3 ME3SB4	352	A503_99.5 P90 BE90LA4	350
18.8	692	1.1	92.8	13755	A413_92.8 S3 ME3SB4	342	A413_92.8 P90 BE90LA4	340
19.4	668	2.2	89.5	18320	A503_89.5 S3 ME3SB4	352	A503_89.5 P90 BE90LA4	350



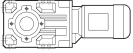

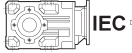




## 1.5 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
21.1	636	0.9	82.5	10140	A352_82.5 S3 ME3SB4	332	A352_82.5 P90 BE90LA4	330
21.4	608	2.5	81.5	18320	A503_81.5 S3 ME3SB4	352	A503_81.5 P90 BE90LA4	350
22.0	611	1.3	79.2	13755	A412_79.2 S3 ME3SB4	342	A412_79.2 P90 BE90LA4	340
23.4	573	1.0	74.3	10325	A352_74.3 S3 ME3SB4	332	A352_74.3 P90 BE90LA4	330
24.4	550	1.4	71.3	13755	A412_71.3 S3 ME3SB4	342	A412_71.3 P90 BE90LA4	340
24.8	524	2.9	70.2	18320	A503_70.2 S3 ME3SB4	352	A503_70.2 P90 BE90LA4	350
26.4	508	1.2	65.8	10742	A352_65.8 S3 ME3SB4	332	A352_65.8 P90 BE90LA4	330
27.1	495	1.6	64.2	13755	A412_64.2 S3 ME3SB4	342	A412_64.2 P90 BE90LA4	340
28.8	465	1.3	60.4	10649	A352_60.4 S3 ME3SB4	332	A352_60.4 P90 BE90LA4	330
29.6	453	1.7	58.8	13755	A412_58.8 S3 ME3SB4	342	A412_58.8 P90 BE90LA4	340
32	418	1.4	54.3	10464	A352_54.3 S3 ME3SB4	332	A352_54.3 P90 BE90LA4	330
33	410	1.9	53.1	13755	A412_53.1 S3 ME3SB4	342	A412_53.1 P90 BE90LA4	340
33	406	1.0	52.7	6027	A302_52.7 S3 ME3SB4	322	A302_52.7 P90 BE90LA4	320
35	378	1.6	49.1	10279	A352_49.1 S3 ME3SB4	332	A352_49.1 P90 BE90LA4	330
36	372	1.1	48.3	6119	A302_48.3 S3 ME3SB4	322	A302_48.3 P90 BE90LA4	320
36	372	2.1	48.3	13663	A412_48.3 S3 ME3SB4	342	A412_48.3 P90 BE90LA4	340
38	353	1.7	45.8	10186	A352_45.8 S3 ME3SB4	332	A352_45.8 P90 BE90LA4	330
39	347	2.2	45.1	13388	A412_45.1 S3 ME3SB4	342	A412_45.1 P90 BE90LA4	340
40	335	1.2	43.4	5908	A302_43.4 S3 ME3SB4	322	A302_43.4 P90 BE90LA4	320
42	322	1.9	41.8	10001	A352_41.8 S3 ME3SB4	332	A352_41.8 P90 BE90LA4	330
44	303	1.4	39.3	5844	A302_39.3 S3 ME3SB4	322	A302_39.3 P90 BE90LA4	320
47	282	1.4	36.6	5798	A302_36.6 S3 ME3SB4	322	A302_36.6 P90 BE90LA4	320
48	282	2.1	36.6	9723	A352_36.6 S3 ME3SB4	332	A352_36.6 P90 BE90LA4	330
48	277	2.6	35.9	12655	A412_35.9 S3 ME3SB4	342	A412_35.9 P90 BE90LA4	340
49	273	0.9	35.4	3646	A202_35.4 S3 ME3SB4	312	A202_35.4 P90 BE90LA4	310
52	258	1.5	33.4	5734	A302_33.4 S3 ME3SB4	322	A302_33.4 P90 BE90LA4	320
52	256	2.3	33.2	9538	A352_33.2 S3 ME3SB4	332	A352_33.2 P90 BE90LA4	330
56	241	1.0	31.3	3517	A202_31.3 S3 ME3SB4	312	A202_31.3 P90 BE90LA4	310
59	226	1.7	29.3	5624	A302_29.3 S3 ME3SB4	322	A302_29.3 P90 BE90LA4	320
60	225	1.1	29.2	3499	A202_29.2 S3 ME3SB4	312	A202_29.2 P90 BE90LA4	310
61	219	2.7	28.4	9204	A352_28.4 S3 ME3SB4	332	A352_28.4 P90 BE90LA4	330
66	204	1.9	26.5	5533	A302_26.5 S3 ME3SB4	322	A302_26.5 P90 BE90LA4	320
66	204	1.2	26.5	3472	A202_26.5 S3 ME3SB4	312	A202_26.5 P90 BE90LA4	310
68	198	3.0	25.7	8991	A352_25.7 S3 ME3SB4	332	A352_25.7 P90 BE90LA4	330
75	178	1.3	23.1	3444	A202_23.1 S3 ME3SB4	312	A202_23.1 P90 BE90LA4	310
76	175	2.2	22.8	5377	A302_22.8 S3 ME3SB4	322	A302_22.8 P90 BE90LA4	320
81	165	0.9	21.4	2956	A102_21.4 S3 ME3SB4	302	A102_21.4 P90 BE90LA4	300
82	164	1.4	21.2	3417	A202_21.2 S3 ME3SB4	312	A202_21.2 P90 BE90LA4	310
85	158	2.4	20.5	5276	A302_20.5 S3 ME3SB4	322	A302_20.5 P90 BE90LA4	320
94	143	1.0	18.6	2848	A102_18.6 S3 ME3SB4	302	A102_18.6 P90 BE90LA4	300
96	140	1.7	18.1	3353	A202_18.1 S3 ME3SB4	312	A202_18.1 P90 BE90LA4	310
97	139	2.7	18.0	5130	A302_18.0 S3 ME3SB4	322	A302_18.0 P90 BE90LA4	320
106	127	1.1	16.4	3363	A102_16.4 S3 ME3SB4	302	A102_16.4 P90 BE90LA4	300
106	126	2.8	16.3	5020	A302_16.3 S3 ME3SB4	322	A302_16.3 P90 BE90LA4	320
108	125	1.9	16.2	3298	A202_16.2 S3 ME3SB4	312	A202_16.2 P90 BE90LA4	310
124	108	2.1	14.1	3233	A202_14.1 S3 ME3SB4	312	A202_14.1 P90 BE90LA4	310
125	107	1.3	13.9	2793	A102_13.9 S3 ME3SB4	302	A102_13.9 P90 BE90LA4	300
141	95	1.4	12.3	2748	A102_12.3 S3 ME3SB4	302	A102_12.3 P90 BE90LA4	300
145	92	2.1	12.0	3133	A202_12.0 S3 ME3SB4	312	A202_12.0 P90 BE90LA4	310
165	81	1.7	10.6	2703	A102_10.6 S3 ME3SB4	302	A102_10.6 P90 BE90LA4	300
168	80	2.6	10.3	3050	A202_10.3 S3 ME3SB4	312	A202_10.3 P90 BE90LA4	310
181	74	1.7	9.6	2658	A102_9.6 S3 ME3SB4	302	A102_9.6 P90 BE90LA4	300
186	72	2.7	9.4	2977	A202_9.4 S3 ME3SB4	312	A202_9.4 P90 BE90LA4	310
204	66	2.0	8.5	3092	A102_8.5 S3 ME3SB4	302	A102_8.5 P90 BE90LA4	300
241	56	2.3	7.2	2522	A102_7.2 S3 ME3SB4	302	A102_7.2 P90 BE90LA4	300
275	49	2.6	6.3	2911	A102_6.3 S3 ME3SB4	302	A102_6.3 P90 BE90LA4	300

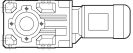





## 2.2 kW

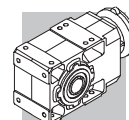
n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
1.3	14141	1.0	1324.0	69675	A904_1324 S3 ME3LA4	398	A904_1324 P100 BE100LA4	396
1.4	13053	1.1	1222.2	69675	A904_1222 S3 ME3LA4	398	A904_1222 P100 BE100LA4	396
1.6	11861	1.2	1110.6	69675	A904_1111 S3 ME3LA4	398	A904_1111 P100 BE100LA4	396
1.7	10949	1.3	1025.2	69675	A904_1025 S3 ME3LA4	398	A904_1025 P100 BE100LA4	396
1.9	10009	1.4	937.2	69675	A904_937.2 S3 ME3LA4	398	A904_937.2 P100 BE100LA4	396
2.0	9239	1.5	865.1	69675	A904_865.1 S3 ME3LA4	398	A904_865.1 P100 BE100LA4	396
2.1	8859	0.9	829.5	60320	A804_829.5 S3 ME3LA4	390	A804_829.5 P100 BE100LA4	388
2.3	8191	1.7	766.9	69675	A904_766.9 S3 ME3LA4	398	A904_766.9 P100 BE100LA4	396
2.3	8139	1.0	762.1	60320	A804_762.1 S3 ME3LA4	390	A804_762.1 P100 BE100LA4	388
2.5	7561	1.9	707.9	69675	A904_707.9 S3 ME3LA4	398	A904_707.9 P100 BE100LA4	396
2.5	7513	1.1	703.5	60320	A804_703.5 S3 ME3LA4	390	A804_703.5 P100 BE100LA4	388
2.9	6484	1.2	607.2	60320	A804_607.2 S3 ME3LA4	390	A804_607.2 P100 BE100LA4	388
2.9	6425	2.2	601.6	69675	A904_601.6 S3 ME3LA4	398	A904_601.6 P100 BE100LA4	396
3.1	5986	1.3	560.5	60320	A804_560.5 S3 ME3LA4	390	A804_560.5 P100 BE100LA4	388
3.1	5931	2.4	555.3	69675	A904_555.3 S3 ME3LA4	398	A904_555.3 P100 BE100LA4	396
3.4	5505	0.9	515.4	46350	A704_515.4 S3 ME3LA4	382	A704_515.4 P100 BE100LA4	380
3.6	5197	2.7	486.6	69675	A904_486.6 S3 ME3LA4	398	A904_486.6 P100 BE100LA4	396
3.6	5115	1.6	478.9	60320	A804_478.9 S3 ME3LA4	390	A804_478.9 P100 BE100LA4	388
3.7	5081	1.0	475.8	46350	A704_475.8 S3 ME3LA4	382	A704_475.8 P100 BE100LA4	380
3.9	4797	2.9	449.2	69675	A904_449.2 S3 ME3LA4	398	A904_449.2 P100 BE100LA4	396
3.9	4721	1.7	442.1	60320	A804_442.1 S3 ME3LA4	390	A804_442.1 P100 BE100LA4	388
4.4	4274	1.2	400.2	46350	A704_400.2 S3 ME3LA4	382	A704_400.2 P100 BE100LA4	380
4.6	4095	2.0	383.5	60320	A804_383.5 S3 ME3LA4	390	A804_383.5 P100 BE100LA4	388
4.7	3945	1.3	369.4	46350	A704_369.4 S3 ME3LA4	382	A704_369.4 P100 BE100LA4	380
4.9	3780	2.1	354.0	60320	A804_354.0 S3 ME3LA4	390	A804_354.0 P100 BE100LA4	388
5.5	3379	1.5	316.4	46350	A704_316.4 S3 ME3LA4	382	A704_316.4 P100 BE100LA4	380
5.8	3208	2.5	300.4	60320	A804_300.4 S3 ME3LA4	390	A804_300.4 P100 BE100LA4	388
6.0	3119	1.6	292.0	46350	A704_292.0 S3 ME3LA4	382	A704_292.0 P100 BE100LA4	380
6.1	3058	0.9	286.3	27810	A604_286.3 S3 ME3LA4	372	A604_286.3 P100 BE100LA4	370
6.3	2961	2.7	277.3	60320	A804_277.3 S3 ME3LA4	390	A804_277.3 P100 BE100LA4	388
6.6	2823	1.0	264.3	27810	A604_264.3 S3 ME3LA4	372	A604_264.3 P100 BE100LA4	370
7.3	2548	2.0	238.6	46350	A704_238.6 S3 ME3LA4	382	A704_238.6 P100 BE100LA4	380
7.7	2415	1.2	226.1	27810	A604_226.1 S3 ME3LA4	372	A604_226.1 P100 BE100LA4	370
7.9	2352	2.1	220.3	46350	A704_220.3 S3 ME3LA4	382	A704_220.3 P100 BE100LA4	380
8.4	2229	1.3	208.7	27810	A604_208.7 S3 ME3LA4	372	A604_208.7 P100 BE100LA4	370
9.0	2121	0.9	194.2	27780	A553_194.2 S3 ME3LA4	362	A553_194.2 P100 BE100LA4	360
9.4	2028	1.4	185.8	27810	A603_185.8 S3 ME3LA4	372	A603_185.8 P100 BE100LA4	370
9.5	1964	2.5	183.9	46350	A704_183.9 S3 ME3LA4	382	A704_183.9 P100 BE100LA4	380
10.0	1911	1.0	175.0	27780	A553_175.0 S3 ME3LA4	362	A553_175.0 P100 BE100LA4	360
10.2	1872	1.5	171.5	27810	A603_171.5 S3 ME3LA4	372	A603_171.5 P100 BE100LA4	370
10.3	1813	2.8	169.8	46350	A704_169.8 S3 ME3LA4	382	A704_169.8 P100 BE100LA4	380
10.9	1752	1.1	160.4	27780	A553_160.4 S3 ME3LA4	362	A553_160.4 P100 BE100LA4	360
11.2	1704	1.6	156.0	27810	A603_156.0 S3 ME3LA4	372	A603_156.0 P100 BE100LA4	370
11.4	1678	2.2	153.7	46350	A703_153.7 S3 ME3LA4	382	A703_153.7 P100 BE100LA4	380
11.9	1603	1.2	146.8	27780	A553_146.8 S3 ME3LA4	362	A553_146.8 P100 BE100LA4	360
12.1	1573	1.8	144.0	27810	A603_144.0 S3 ME3LA4	372	A603_144.0 P100 BE100LA4	370
12.4	1536	1.0	140.6	17038	A503_140.6 S3 ME3LA4	352	A503_140.6 P100 BE100LA4	350
13.1	1455	1.9	133.3	27810	A603_133.3 S3 ME3LA4	372	A603_133.3 P100 BE100LA4	370
13.1	1449	1.4	132.7	27780	A553_132.7 S3 ME3LA4	362	A553_132.7 P100 BE100LA4	360
13.5	1416	1.1	129.7	18045	A503_129.7 S3 ME3LA4	352	A503_129.7 P100 BE100LA4	350
14.1	1353	1.5	123.9	27780	A553_123.9 S3 ME3LA4	362	A553_123.9 P100 BE100LA4	360
14.2	1343	2.1	123.0	27810	A603_123.0 S3 ME3LA4	372	A603_123.0 P100 BE100LA4	370
14.8	1288	1.2	118.0	18320	A503_118.0 S3 ME3LA4	352	A503_118.0 P100 BE100LA4	350
15.9	1195	1.3	109.4	18320	A503_109.4 S3 ME3LA4	352	A503_109.4 P100 BE100LA4	350
16.2	1177	2.4	107.8	27810	A603_107.8 S3 ME3LA4	372	A603_107.8 P100 BE100LA4	370
17.2	1107	1.8	101.4	27780	A553_101.4 S3 ME3LA4	362	A553_101.4 P100 BE100LA4	360
17.5	1087	1.4	99.5	18320	A503_99.5 S3 ME3LA4	352	A503_99.5 P100 BE100LA4	350



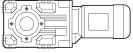
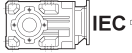

## 2.2 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
17.5	1087	2.6	99.5	27810	A603_99.5 S3 ME3LA4	372	A603_99.5 P100 BE100LA4	370
19.5	978	1.5	89.5	18137	A503_89.5 S3 ME3LA4	352	A503_89.5 P100 BE100LA4	350
20.2	943	3.0	86.4	27810	A603_86.4 S3 ME3LA4	372	A603_86.4 P100 BE100LA4	370
21.4	889	1.7	81.5	17954	A503_81.5 S3 ME3LA4	352	A503_81.5 P100 BE100LA4	350
21.9	868	2.3	79.5	27780	A553_79.5 S3 ME3LA4	362	A553_79.5 P100 BE100LA4	360
24.5	804	1.0	71.3	12746	A412_71.3 S3 ME3LA4	342	A412_71.3 P100 BE100LA4	340
24.8	767	2.0	70.2	17679	A503_70.2 S3 ME3LA4	352	A503_70.2 P100 BE100LA4	350
27.1	702	2.8	64.3	27780	A553_64.3 S3 ME3LA4	362	A553_64.3 P100 BE100LA4	360
27.2	724	1.1	64.2	13297	A412_64.2 S3 ME3LA4	342	A412_64.2 P100 BE100LA4	340
27.3	698	2.1	63.9	17404	A503_63.9 S3 ME3LA4	352	A503_63.9 P100 BE100LA4	350
29.7	663	1.2	58.8	13205	A412_58.8 S3 ME3LA4	342	A412_58.8 P100 BE100LA4	340
31	620	2.4	56.8	17038	A503_56.8 S3 ME3LA4	352	A503_56.8 P100 BE100LA4	350
32	612	1.0	54.3	9492	A352_54.3 S3 ME3LA4	332	A352_54.3 P100 BE100LA4	330
33	599	1.3	53.1	12930	A412_53.1 S3 ME3LA4	342	A412_53.1 P100 BE100LA4	340
34	564	2.7	51.7	16763	A503_51.7 S3 ME3LA4	352	A503_51.7 P100 BE100LA4	350
36	554	1.1	49.1	9167	A352_49.1 S3 ME3LA4	332	A352_49.1 P100 BE100LA4	330
36	545	1.4	48.3	12746	A412_48.3 S3 ME3LA4	342	A412_48.3 P100 BE100LA4	340
38	517	1.2	45.8	9112	A352_45.8 S3 ME3LA4	332	A352_45.8 P100 BE100LA4	330
39	508	1.5	45.1	12563	A412_45.1 S3 ME3LA4	342	A412_45.1 P100 BE100LA4	340
39	491	3.0	45.0	16396	A503_45.0 S3 ME3LA4	352	A503_45.0 P100 BE100LA4	350
42	471	1.3	41.8	9029	A352_41.8 S3 ME3LA4	332	A352_41.8 P100 BE100LA4	330
44	443	0.9	39.3	5130	A302_39.3 S3 ME3LA4	322	A302_39.3 P100 BE100LA4	320
48	413	1.0	36.6	5130	A302_36.6 S3 ME3LA4	322	A302_36.6 P100 BE100LA4	320
48	413	1.5	36.6	8890	A352_36.6 S3 ME3LA4	332	A352_36.6 P100 BE100LA4	330
49	405	1.8	35.9	12013	A412_35.9 S3 ME3LA4	342	A412_35.9 P100 BE100LA4	340
52	377	1.0	33.4	4626	A302_33.4 S3 ME3LA4	322	A302_33.4 P100 BE100LA4	320
53	374	1.6	33.2	8760	A352_33.2 S3 ME3LA4	332	A352_33.2 P100 BE100LA4	330
60	331	1.1	29.3	4928	A302_29.3 S3 ME3LA4	322	A302_29.3 P100 BE100LA4	320
61	321	1.9	28.4	8547	A352_28.4 S3 ME3LA4	332	A352_28.4 P100 BE100LA4	330
62	319	2.1	28.3	11371	A412_28.3 S3 ME3LA4	342	A412_28.3 P100 BE100LA4	340
66	299	1.3	26.5	4901	A302_26.5 S3 ME3LA4	322	A302_26.5 P100 BE100LA4	320
68	290	2.0	25.7	8399	A352_25.7 S3 ME3LA4	332	A352_25.7 P100 BE100LA4	330
77	257	1.5	22.8	4846	A302_22.8 S3 ME3LA4	322	A302_22.8 P100 BE100LA4	320
77	256	2.5	22.7	10729	A412_22.7 S3 ME3LA4	342	A412_22.7 P100 BE100LA4	340
78	254	2.2	22.5	8186	A352_22.5 S3 ME3LA4	332	A352_22.5 P100 BE100LA4	330
82	239	1.0	21.2	2950	A202_21.2 S3 ME3LA4	312	A202_21.2 P100 BE100LA4	310
85	232	1.6	20.5	4791	A302_20.5 S3 ME3LA4	322	A302_20.5 P100 BE100LA4	320
85	230	2.4	20.4	8019	A352_20.4 S3 ME3LA4	332	A352_20.4 P100 BE100LA4	330
96	204	1.1	18.1	2876	A202_18.1 S3 ME3LA4	312	A202_18.1 P100 BE100LA4	310
97	203	1.8	18.0	4708	A302_18.0 S3 ME3LA4	322	A302_18.0 P100 BE100LA4	320
98	200	2.9	17.8	10087	A412_17.8 S3 ME3LA4	342	A412_17.8 P100 BE100LA4	340
103	191	2.9	17.0	7704	A352_17.0 S3 ME3LA4	332	A352_17.0 P100 BE100LA4	330
107	184	1.9	16.3	4635	A302_16.3 S3 ME3LA4	322	A302_16.3 P100 BE100LA4	320
108	182	1.3	16.2	2876	A202_16.2 S3 ME3LA4	312	A202_16.2 P100 BE100LA4	310
124	159	1.4	14.1	2858	A202_14.1 S3 ME3LA4	312	A202_14.1 P100 BE100LA4	310
129	153	2.2	13.6	4488	A302_13.6 S3 ME3LA4	322	A302_13.6 P100 BE100LA4	320
142	139	0.9	12.3	2350	A102_12.3 S3 ME3LA4	302	A102_12.3 P100 BE100LA4	300
146	135	1.4	12.0	2812	A202_12.0 S3 ME3LA4	312	A202_12.0 P100 BE100LA4	310
148	133	2.1	11.8	4351	A302_11.8 S3 ME3LA4	322	A302_11.8 P100 BE100LA4	320
148	133	2.8	11.8	7139	A352_11.8 S3 ME3LA4	332	A352_11.8 P100 BE100LA4	330
165	119	1.2	10.6	2350	A102_10.6 S3 ME3LA4	302	A102_10.6 P100 BE100LA4	300
167	118	2.7	10.5	4269	A302_10.5 S3 ME3LA4	322	A302_10.5 P100 BE100LA4	320
169	117	1.8	10.3	2775	A202_10.3 S3 ME3LA4	312	A202_10.3 P100 BE100LA4	310
181	108	1.2	9.6	2332	A102_9.6 S3 ME3LA4	302	A102_9.6 P100 BE100LA4	300
186	106	1.8	9.4	2730	A202_9.4 S3 ME3LA4	312	A202_9.4 P100 BE100LA4	310
187	105	2.6	9.3	4149	A302_9.3 S3 ME3LA4	322	A302_9.3 P100 BE100LA4	320
205	96	1.3	8.5	2757	A102_8.5 S3 ME3LA4	302	A102_8.5 P100 BE100LA4	300

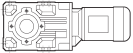
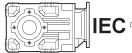





## 2.2 kW

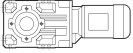

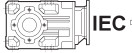


n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
206	95	2.9	8.5	4058	A302_8.5 S3 ME3LA4	322	A302_8.5 P100 BE100LA4	320
208	94	2.1	8.4	2684	A202_8.4 S3 ME3LA4	312	A202_8.4 P100 BE100LA4	310
239	82	2.4	7.3	2620	A202_7.3 S3 ME3LA4	312	A202_7.3 P100 BE100LA4	310
242	81	1.6	7.2	2278	A102_7.2 S3 ME3LA4	302	A102_7.2 P100 BE100LA4	300
267	74	2.6	6.5	2574	A202_6.5 S3 ME3LA4	312	A202_6.5 P100 BE100LA4	310
275	71	1.8	6.3	2667	A102_6.3 S3 ME3LA4	302	A102_6.3 P100 BE100LA4	300
319	62	2.1	5.5	2197	A102_5.5 S3 ME3LA4	302	A102_5.5 P100 BE100LA4	300

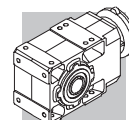
## 3 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
1.7	15054	0.9	1025.2	69675	A904_1025 S3 ME3LB4	398	A904_1025 P100 BE100LB4	396
1.9	13763	1.0	937.2	69675	A904_937.2 S3 ME3LB4	398	A904_937.2 P100 BE100LB4	396
2.0	12704	1.1	865.1	69675	A904_865.1 S3 ME3LB4	398	A904_865.1 P100 BE100LB4	396
2.3	11262	1.2	766.9	69675	A904_766.9 S3 ME3LB4	398	A904_766.9 P100 BE100LB4	396
2.5	10396	1.3	707.9	69675	A904_707.9 S3 ME3LB4	398	A904_707.9 P100 BE100LB4	396
2.9	8834	1.6	601.6	69675	A904_601.6 S3 ME3LB4	398	A904_601.6 P100 BE100LB4	396
3.1	8230	1.0	560.5	60320	A804_560.5 S3 ME3LB4	390	A804_560.5 P100 BE100LB4	388
3.1	8155	1.7	555.3	69675	A904_555.3 S3 ME3LB4	398	A904_555.3 P100 BE100LB4	396
3.6	7146	2.0	486.6	69675	A904_486.6 S3 ME3LB4	398	A904_486.6 P100 BE100LB4	396
3.6	7033	1.1	478.9	60320	A804_478.9 S3 ME3LB4	390	A804_478.9 P100 BE100LB4	388
3.9	6596	2.1	449.2	69675	A904_449.2 S3 ME3LB4	398	A904_449.2 P100 BE100LB4	396
3.9	6492	1.2	442.1	60320	A804_442.1 S3 ME3LB4	390	A804_442.1 P100 BE100LB4	388
4.5	5660	2.5	385.4	69675	A904_385.4 S3 ME3LB4	398	A904_385.4 P100 BE100LB4	396
4.5	5631	1.4	383.5	60320	A804_383.5 S3 ME3LB4	390	A804_383.5 P100 BE100LB4	388
4.7	5424	0.9	369.4	46350	A704_369.4 S3 ME3LB4	382	A704_369.4 P100 BE100LB4	380
4.9	5225	2.7	355.8	69675	A904_355.8 S3 ME3LB4	398	A904_355.8 P100 BE100LB4	396
4.9	5198	1.5	354.0	60320	A804_354.0 S3 ME3LB4	390	A804_354.0 P100 BE100LB4	388
5.5	4646	1.1	316.4	46350	A704_316.4 S3 ME3LB4	382	A704_316.4 P100 BE100LB4	380
5.8	4411	1.8	300.4	60320	A804_300.4 S3 ME3LB4	390	A804_300.4 P100 BE100LB4	388
5.9	4288	1.2	292.0	46350	A704_292.0 S3 ME3LB4	382	A704_292.0 P100 BE100LB4	380
6.3	4072	2.0	277.3	60320	A804_277.3 S3 ME3LB4	390	A804_277.3 P100 BE100LB4	388
7.3	3504	1.4	238.6	46350	A704_238.6 S3 ME3LB4	382	A704_238.6 P100 BE100LB4	380
7.5	3416	2.3	232.6	60320	A804_232.6 S3 ME3LB4	390	A804_232.6 P100 BE100LB4	388
7.9	3234	1.5	220.3	46350	A704_220.3 S3 ME3LB4	382	A704_220.3 P100 BE100LB4	380
8.1	3153	2.5	214.7	60320	A804_214.7 S3 ME3LB4	390	A804_214.7 P100 BE100LB4	388
8.3	3065	0.9	208.7	27810	A604_208.7 S3 ME3LB4	372	A604_208.7 P100 BE100LB4	370
9.3	2789	1.0	185.8	27810	A603_185.8 S3 ME3LB4	372	A603_185.8 P100 BE100LB4	370
9.4	2701	1.9	183.9	46350	A704_183.9 S3 ME3LB4	382	A704_183.9 P100 BE100LB4	380
10.1	2575	1.1	171.5	27810	A603_171.5 S3 ME3LB4	372	A603_171.5 P100 BE100LB4	370
10.2	2493	2.0	169.8	46350	A704_169.8 S3 ME3LB4	382	A704_169.8 P100 BE100LB4	380
11.1	2343	1.2	156.0	27810	A603_156.0 S3 ME3LB4	372	A603_156.0 P100 BE100LB4	370
11.3	2308	1.6	153.7	46350	A703_153.7 S3 ME3LB4	382	A703_153.7 P100 BE100LB4	380
11.8	2204	0.9	146.8	27780	A553_146.8 S3 ME3LB4	362	A553_146.8 P100 BE100LB4	360
12.0	2163	1.3	144.0	27810	A603_144.0 S3 ME3LB4	372	A603_144.0 P100 BE100LB4	370
12.2	2130	2.3	141.9	46350	A703_141.9 S3 ME3LB4	382	A703_141.9 P100 BE100LB4	380
13.0	2001	1.4	133.3	27810	A603_133.3 S3 ME3LB4	372	A603_133.3 P100 BE100LB4	370
13.1	1993	1.0	132.7	27780	A553_132.7 S3 ME3LB4	362	A553_132.7 P100 BE100LB4	360
13.3	1962	2.5	130.7	46350	A703_130.7 S3 ME3LB4	382	A703_130.7 P100 BE100LB4	380
14.0	1860	1.1	123.9	27780	A553_123.9 S3 ME3LB4	362	A553_123.9 P100 BE100LB4	360
14.1	1847	1.5	123.0	27810	A603_123.0 S3 ME3LB4	372	A603_123.0 P100 BE100LB4	370

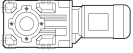

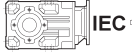




### 3 kW

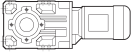

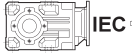


n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
14.4	1811	2.8	120.6	46350	A703_120.6 S3 ME3LB4	382	A703_120.6 P100 BE100LB4	380
15.9	1643	0.9	109.4	16488	A503_109.4 S3 ME3LB4	352	A503_109.4 P100 BE100LB4	350
16.1	1619	1.7	107.8	27810	A603_107.8 S3 ME3LB4	372	A603_107.8 P100 BE100LB4	370
17.1	1522	1.3	101.4	27780	A553_101.4 S3 ME3LB4	362	A553_101.4 P100 BE100LB4	360
17.4	1495	1.0	99.5	15755	A503_99.5 S3 ME3LB4	352	A503_99.5 P100 BE100LB4	350
17.4	1494	1.9	99.5	27810	A603_99.5 S3 ME3LB4	372	A603_99.5 P100 BE100LB4	370
19.4	1344	1.1	89.5	15664	A503_89.5 S3 ME3LB4	352	A503_89.5 P100 BE100LB4	350
20.1	1297	2.2	86.4	27810	A603_86.4 S3 ME3LB4	372	A603_86.4 P100 BE100LB4	370
21.3	1223	1.2	81.5	15755	A503_81.5 S3 ME3LB4	352	A503_81.5 P100 BE100LB4	350
21.8	1197	2.3	79.7	27810	A603_79.7 S3 ME3LB4	372	A603_79.7 P100 BE100LB4	370
21.8	1194	1.7	79.5	27780	A553_79.5 S3 ME3LB4	362	A553_79.5 P100 BE100LB4	360
24.6	1057	2.6	70.4	27810	A603_70.4 S3 ME3LB4	372	A603_70.4 P100 BE100LB4	370
24.7	1055	1.4	70.2	15755	A503_70.2 S3 ME3LB4	352	A503_70.2 P100 BE100LB4	350
26.7	976	2.9	65.0	27810	A603_65.0 S3 ME3LB4	372	A603_65.0 P100 BE100LB4	370
27.0	966	2.1	64.3	27780	A553_64.3 S3 ME3LB4	362	A553_64.3 P100 BE100LB4	360
27.2	959	1.6	63.9	15664	A503_63.9 S3 ME3LB4	352	A503_63.9 P100 BE100LB4	350
31	853	1.8	56.8	15572	A503_56.8 S3 ME3LB4	352	A503_56.8 P100 BE100LB4	350
33	824	1.0	53.1	11463	A412_53.1 S3 ME3LB4	342	A412_53.1 P100 BE100LB4	340
34	776	1.9	51.7	15389	A503_51.7 S3 ME3LB4	352	A503_51.7 P100 BE100LB4	350
34	765	2.6	51.0	27780	A553_51.0 S3 ME3LB4	362	A553_51.0 P100 BE100LB4	360
36	749	1.1	48.3	11646	A412_48.3 S3 ME3LB4	342	A412_48.3 P100 BE100LB4	340
38	699	1.1	45.1	11554	A412_45.1 S3 ME3LB4	342	A412_45.1 P100 BE100LB4	340
39	676	2.2	45.0	15114	A503_45.0 S3 ME3LB4	352	A503_45.0 P100 BE100LB4	350
42	648	0.9	41.8	8056	A352_41.8 S3 ME3LB4	332	A352_41.8 P100 BE100LB4	330
42	615	2.3	40.9	14931	A503_40.9 S3 ME3LB4	352	A503_40.9 P100 BE100LB4	350
47	568	1.1	36.6	7917	A352_36.6 S3 ME3LB4	332	A352_36.6 P100 BE100LB4	330
48	557	1.3	35.9	11187	A412_35.9 S3 ME3LB4	342	A412_35.9 P100 BE100LB4	340
49	535	2.6	35.6	14656	A503_35.6 S3 ME3LB4	352	A503_35.6 P100 BE100LB4	350
52	514	1.2	33.2	7890	A352_33.2 S3 ME3LB4	332	A352_33.2 P100 BE100LB4	330
54	486	2.9	32.4	14381	A503_32.4 S3 ME3LB4	352	A503_32.4 P100 BE100LB4	350
61	441	1.4	28.4	7797	A352_28.4 S3 ME3LB4	332	A352_28.4 P100 BE100LB4	330
61	439	1.5	28.3	10729	A412_28.3 S3 ME3LB4	342	A412_28.3 P100 BE100LB4	340
65	411	0.9	26.5	4259	A302_26.5 S3 ME3LB4	322	A302_26.5 P100 BE100LB4	320
68	398	1.5	25.7	7714	A352_25.7 S3 ME3LB4	332	A352_25.7 P100 BE100LB4	330
76	353	1.1	22.8	4223	A302_22.8 S3 ME3LB4	322	A302_22.8 P100 BE100LB4	320
77	352	1.8	22.7	10270	A412_22.7 S3 ME3LB4	342	A412_22.7 P100 BE100LB4	340
77	349	1.6	22.5	7584	A352_22.5 S3 ME3LB4	332	A352_22.5 P100 BE100LB4	330
84	319	1.2	20.5	4232	A302_20.5 S3 ME3LB4	322	A302_20.5 P100 BE100LB4	320
85	317	1.8	20.4	7482	A352_20.4 S3 ME3LB4	332	A352_20.4 P100 BE100LB4	330
96	279	1.3	18.0	4214	A302_18.0 S3 ME3LB4	322	A302_18.0 P100 BE100LB4	320
98	276	2.1	17.8	9720	A412_17.8 S3 ME3LB4	342	A412_17.8 P100 BE100LB4	340
102	263	2.1	17.0	7251	A352_17.0 S3 ME3LB4	332	A352_17.0 P100 BE100LB4	330
106	253	1.4	16.3	4195	A302_16.3 S3 ME3LB4	322	A302_16.3 P100 BE100LB4	320
107	251	0.9	16.2	2482	A202_16.2 S3 ME3LB4	312	A202_16.2 P100 BE100LB4	310
108	250	2.3	16.1	9537	A412_16.1 S3 ME3LB4	342	A412_16.1 P100 BE100LB4	340
112	240	2.3	15.5	7130	A352_15.5 S3 ME3LB4	332	A352_15.5 P100 BE100LB4	330
123	218	1.0	14.1	2427	A202_14.1 S3 ME3LB4	312	A202_14.1 P100 BE100LB4	310
126	213	2.5	13.8	9161	A412_13.8 S3 ME3LB4	342	A412_13.8 P100 BE100LB4	340
128	210	1.6	13.6	4122	A302_13.6 S3 ME3LB4	322	A302_13.6 P100 BE100LB4	320
133	203	2.7	13.1	6899	A352_13.1 S3 ME3LB4	332	A352_13.1 P100 BE100LB4	330
145	186	1.1	12.0	2446	A202_12.0 S3 ME3LB4	312	A202_12.0 P100 BE100LB4	310
147	183	1.5	11.8	4030	A302_11.8 S3 ME3LB4	322	A302_11.8 P100 BE100LB4	320
147	183	2.0	11.8	6862	A352_11.8 S3 ME3LB4	332	A352_11.8 P100 BE100LB4	330
148	182	2.8	11.7	8785	A412_11.7 S3 ME3LB4	342	A412_11.7 P100 BE100LB4	340
163	165	2.2	10.6	6695	A352_10.6 S3 ME3LB4	332	A352_10.6 P100 BE100LB4	330



### 3 kW

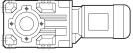


n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
166	162	1.9	10.5	3985	A302_10.5 S3 ME3LB4	322	A302_10.5 P100 BE100LB4	320
168	160	1.3	10.3	2464	A202_10.3 S3 ME3LB4	312	A202_10.3 P100 BE100LB4	310
185	145	1.3	9.4	2446	A202_9.4 S3 ME3LB4	312	A202_9.4 P100 BE100LB4	310
186	144	1.9	9.3	3884	A302_9.3 S3 ME3LB4	322	A302_9.3 P100 BE100LB4	320
186	144	2.6	9.3	6482	A352_9.3 S3 ME3LB4	332	A352_9.3 P100 BE100LB4	330
204	132	1.0	8.5	2260	A102_8.5 S3 ME3LB4	302	A102_8.5 P100 BE100LB4	300
205	131	2.1	8.5	3820	A302_8.5 S3 ME3LB4	322	A302_8.5 P100 BE100LB4	320
205	131	2.7	8.5	6334	A352_8.5 S3 ME3LB4	332	A352_8.5 P100 BE100LB4	330
207	130	1.5	8.4	2427	A202_8.4 S3 ME3LB4	312	A202_8.4 P100 BE100LB4	310
238	113	1.7	7.3	2400	A202_7.3 S3 ME3LB4	312	A202_7.3 P100 BE100LB4	310
241	112	1.2	7.2	2007	A102_7.2 S3 ME3LB4	302	A102_7.2 P100 BE100LB4	300
247	109	2.6	7.0	3691	A302_7.0 S3 ME3LB4	322	A302_7.0 P100 BE100LB4	320
265	101	1.9	6.5	2372	A202_6.5 S3 ME3LB4	312	A202_6.5 P100 BE100LB4	310
271	99	2.8	6.4	3618	A302_6.4 S3 ME3LB4	322	A302_6.4 P100 BE100LB4	320
274	98	1.3	6.3	2387	A102_6.3 S3 ME3LB4	302	A102_6.3 P100 BE100LB4	300
317	85	1.5	5.5	1989	A102_5.5 S3 ME3LB4	302	A102_5.5 P100 BE100LB4	300
324	83	2.3	5.4	2308	A202_5.4 S3 ME3LB4	312	A202_5.4 P100 BE100LB4	310

### 3.7 kW

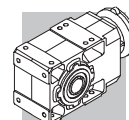
n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
2.0	15399	0.9	865.1	69675	A904_865.1 S4 ME4SA4	398	A904_865.1 P112 BE112M4	396
2.3	13651	1.0	766.9	69675	A904_766.9 S4 ME4SA4	398	A904_766.9 P112 BE112M4	396
2.5	12601	1.1	707.9	69675	A904_707.9 S4 ME4SA4	398	A904_707.9 P112 BE112M4	396
2.9	10708	1.3	601.6	69675	A904_601.6 S4 ME4SA4	398	A904_601.6 P112 BE112M4	396
3.1	9884	1.4	555.3	69675	A904_555.3 S4 ME4SA4	398	A904_555.3 P112 BE112M4	396
3.6	8661	1.6	486.6	69675	A904_486.6 S4 ME4SA4	398	A904_486.6 P112 BE112M4	396
3.6	8525	0.9	478.9	60320	A804_478.9 S4 ME4SA4	390	A804_478.9 P112 BE112M4	388
3.9	7995	1.8	449.2	69675	A904_449.2 S4 ME4SA4	398	A904_449.2 P112 BE112M4	396
3.9	7869	1.0	442.1	60320	A804_442.1 S4 ME4SA4	390	A804_442.1 P112 BE112M4	388
4.5	6861	2.0	385.4	69675	A904_385.4 S4 ME4SA4	398	A904_385.4 P112 BE112M4	396
4.5	6826	1.2	383.5	60320	A804_383.5 S4 ME4SA4	390	A804_383.5 P112 BE112M4	388
4.9	6333	2.2	355.8	69675	A904_355.8 S4 ME4SA4	398	A904_355.8 P112 BE112M4	396
4.9	6301	1.3	354.0	60320	A804_354.0 S4 ME4SA4	390	A804_354.0 P112 BE112M4	388
5.7	5427	2.6	304.9	69675	A904_304.9 S4 ME4SA4	398	A904_304.9 P112 BE112M4	396
5.8	5347	1.5	300.4	60320	A804_300.4 S4 ME4SA4	390	A804_300.4 P112 BE112M4	388
6.0	5198	1.0	292.0	46350	A704_292.0 S4 ME4SA4	382	A704_292.0 P112 BE112M4	380
6.2	5010	2.8	281.4	69675	A904_281.4 S4 ME4SA4	398	A904_281.4 P112 BE112M4	396
6.3	4936	1.6	277.3	60320	A804_277.3 S4 ME4SA4	390	A804_277.3 P112 BE112M4	388
7.3	4247	1.2	238.6	46350	A704_238.6 S4 ME4SA4	382	A704_238.6 P112 BE112M4	380
7.5	4141	1.9	232.6	60320	A804_232.6 S4 ME4SA4	390	A804_232.6 P112 BE112M4	388
7.9	3921	1.3	220.3	46350	A704_220.3 S4 ME4SA4	382	A704_220.3 P112 BE112M4	380
8.1	3822	2.1	214.7	60320	A804_214.7 S4 ME4SA4	390	A804_214.7 P112 BE112M4	388
9.5	3273	1.5	183.9	46350	A704_183.9 S4 ME4SA4	382	A704_183.9 P112 BE112M4	380
10.2	3049	2.6	171.3	60320	A804_171.3 S4 ME4SA4	390	A804_171.3 P112 BE112M4	388
10.3	3022	1.7	169.8	46350	A704_169.8 S4 ME4SA4	382	A704_169.8 P112 BE112M4	380
11.1	2854	2.8	156.8	60320	A803_156.8 S4 ME4SA4	390	A803_156.8 P112 BE112M4	388
11.2	2840	1.0	156.0	27810			A603_156.0 P112 BE112M4	370
11.3	2797	1.3	153.7	46350	A703_153.7 S4 ME4SA4	382	A703_153.7 P112 BE112M4	380
12.1	2622	1.1	144.0	27810			A603_144.0 P112 BE112M4	370
12.3	2582	1.9	141.9	46350	A703_141.9 S4 ME4SA4	382	A703_141.9 P112 BE112M4	380



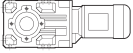


## 3.7 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
13.1	2426	1.2	133.3	27810	A603_133.3 S4 ME4SA4	372	A603_133.3 P112 BE112M4	370
13.3	2378	2.1	130.7	46350	A703_130.7 S4 ME4SA4	382	A703_130.7 P112 BE112M4	380
14.1	2239	1.3	123.0	27810	A603_123.0 S4 ME4SA4	372	A603_123.0 P112 BE112M4	370
14.4	2195	2.3	120.6	46350	A703_120.6 S4 ME4SA4	382	A703_120.6 P112 BE112M4	380
16.1	1962	1.4	107.8	27810	A603_107.8 S4 ME4SA4	372	A603_107.8 P112 BE112M4	370
16.7	1897	2.6	104.2	46350	A703_104.2 S4 ME4SA4	382	A703_104.2 P112 BE112M4	380
17.2	1845	1.1	101.4	27780	A553_101.4 S4 ME4SA4	362	A553_101.4 P112 BE112M4	360
17.5	1811	1.5	99.5	27810	A603_99.5 S4 ME4SA4	372	A603_99.5 P112 BE112M4	370
18.1	1751	2.8	96.2	46350	A703_96.2 S4 ME4SA4	382	A703_96.2 P112 BE112M4	380
19.4	1630	0.9	89.5	15114	A503_89.5 S4 ME4SA4	352	A503_89.5 P112 BE112M4	350
20.1	1572	1.8	86.4	27810	A603_86.4 S4 ME4SA4	372	A603_86.4 P112 BE112M4	370
21.4	1482	1.0	81.5	14702	A503_81.5 S4 ME4SA4	352	A503_81.5 P112 BE112M4	350
21.8	1451	1.9	79.7	27810	A603_79.7 S4 ME4SA4	372	A603_79.7 P112 BE112M4	370
21.9	1447	1.4	79.5	27780	A553_79.5 S4 ME4SA4	362	A553_79.5 P112 BE112M4	360
24.7	1281	2.2	70.4	27810	A603_70.4 S4 ME4SA4	372	A603_70.4 P112 BE112M4	370
24.8	1278	1.2	70.2	14161	A503_70.2 S4 ME4SA4	352	A503_70.2 P112 BE112M4	350
26.8	1183	2.4	65.0	27810	A603_65.0 S4 ME4SA4	372	A603_65.0 P112 BE112M4	370
27.1	1171	1.7	64.3	27780	A553_64.3 S4 ME4SA4	362	A553_64.3 P112 BE112M4	360
27.2	1163	1.3	63.9	13465	A503_63.9 S4 ME4SA4	352	A503_63.9 P112 BE112M4	350
31	1034	1.5	56.8	13557	A503_56.8 S4 ME4SA4	352	A503_56.8 P112 BE112M4	350
31	1012	2.8	55.6	27810	A603_55.6 S4 ME4SA4	372	A603_55.6 P112 BE112M4	370
34	941	1.6	51.7	13648	A503_51.7 S4 ME4SA4	352	A503_51.7 P112 BE112M4	350
34	934	3.0	51.3	27810	A603_51.3 S4 ME4SA4	372	A603_51.3 P112 BE112M4	370
34	927	2.2	51.0	27780	A553_51.0 S4 ME4SA4	362	A553_51.0 P112 BE112M4	360
39	847	0.9	45.1	10637	A412_45.1 S4 ME4SA4	342	A412_45.1 P112 BE112M4	340
39	819	1.8	45.0	13648	A503_45.0 S4 ME4SA4	352	A503_45.0 P112 BE112M4	350
43	745	1.9	40.9	13557	A503_40.9 S4 ME4SA4	352	A503_40.9 P112 BE112M4	350
43	734	2.5	40.3	27780	A553_40.3 S4 ME4SA4	362	A553_40.3 P112 BE112M4	360
48	675	1.1	35.9	10270	A412_35.9 S4 ME4SA4	342	A412_35.9 P112 BE112M4	340
49	648	2.1	35.6	13465	A503_35.6 S4 ME4SA4	352	A503_35.6 P112 BE112M4	350
52	623	1.0	33.2	7445			A352_33.2 P112 BE112M4	330
54	589	2.4	32.4	13282	A503_32.4 S4 ME4SA4	352	A503_32.4 P112 BE112M4	350
61	535	1.1	28.4	7214			A352_28.4 P112 BE112M4	330
61	532	1.3	28.3	9995	A412_28.3 S4 ME4SA4	342	A412_28.3 P112 BE112M4	340
66	481	2.9	26.4	12916	A503_26.4 S4 ME4SA4	352	A503_26.4 P112 BE112M4	350
68	483	1.2	25.7	6871			A352_25.7 P112 BE112M4	330
77	426	1.5	22.7	9629	A412_22.7 S4 ME4SA4	342	A412_22.7 P112 BE112M4	340
77	423	1.3	22.5	6852			A352_22.5 P112 BE112M4	330
83	393	2.8	20.9	13832	A502_20.9 S4 ME4SA4	352	A502_20.9 P112 BE112M4	350
85	386	1.0	20.5	3856			A302_20.5 P112 BE112M4	320
85	384	1.4	20.4	6815			A352_20.4 P112 BE112M4	330
97	338	1.1	18.0	3600			A302_18.0 P112 BE112M4	320
98	334	1.7	17.8	9262	A412_17.8 S4 ME4SA4	342	A412_17.8 P112 BE112M4	340
103	319	1.7	17.0	6704			A352_17.0 P112 BE112M4	330
106	307	1.2	16.3	3637			A302_16.3 P112 BE112M4	320
108	303	1.9	16.1	9115	A412_16.1 S4 ME4SA4	342	A412_16.1 P112 BE112M4	340
112	291	1.9	15.5	6630			A352_15.5 P112 BE112M4	330
126	259	2.1	13.8	8812	A412_13.8 S4 ME4SA4	342	A412_13.8 P112 BE112M4	340
128	255	1.3	13.6	3664			A302_13.6 P112 BE112M4	320
133	246	2.3	13.1	6482			A352_13.1 P112 BE112M4	330
148	221	1.3	11.8	3627			A302_11.8 P112 BE112M4	320
148	221	1.7	11.8	6528	A352_11.8 S4 ME4SA4	332	A352_11.8 P112 BE112M4	330
148	221	2.3	11.7	8491	A412_11.7 S4 ME4SA4	342	A412_11.7 P112 BE112M4	340








## 3.7 kW

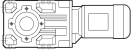



n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
164	200	1.9	10.6	6399	A352_10.6 S4 ME4SA4	332	A352_10.6 P112 BE112M4	330
166	197	1.6	10.5	3637			A302_10.5 P112 BE112M4	320
168	194	1.1	10.3	1924	A412_10.1 S4 ME4SA4	342	A202_10.3 P112 BE112M4	310
172	190	2.6	10.1	8216			A412_10.1 P112 BE112M4	340
186	176	1.1	9.4	2153			A202_9.4 P112 BE112M4	310
187	175	1.6	9.3	3572			A302_9.3 P112 BE112M4	320
187	175	2.1	9.3	6232			A352_9.3 S4 ME4SA4	332
189	173	2.9	9.2	8015	A412_9.2 S4 ME4SA4	342	A412_9.2 P112 BE112M4	340
206	159	1.7	8.5	3536	A352_8.5 S4 ME4SA4	332	A302_8.5 P112 BE112M4	320
206	159	2.2	8.5	6102			A352_8.5 P112 BE112M4	330
208	157	1.2	8.4	2107			A202_8.4 P112 BE112M4	310
239	137	1.4	7.3	2116			A202_7.3 P112 BE112M4	310
241	136	1.0	7.2	2079			A352_7.0 S4 ME4SA4	332
248	132	2.1	7.0	3453	A302_7.0 P112 BE112M4	320		
248	132	2.6	7.0	5843	A352_7.0 P112 BE112M4	330		
266	123	1.6	6.5	2116	A202_6.5 P112 BE112M4	310		
271	121	2.3	6.4	3408	A302_6.4 P112 BE112M4	320		
271	121	2.7	6.4	5723	A352_6.4 S4 ME4SA4	332	A352_6.4 P112 BE112M4	330
275	119	1.1	6.3	1799			A102_6.3 P112 BE112M4	300
318	103	1.3	5.5	1727			A102_5.5 P112 BE112M4	300
321	102	2.7	5.4	3307			A302_5.4 P112 BE112M4	320
325	101	1.9	5.4	2107			A202_5.4 P112 BE112M4	310

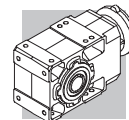
## 5.5 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
3.2	14826	0.9	555.3	69675	A904_555.3 S4 ME4SB4	398	A904_555.3 P132 BE132S4	396
3.6	12992	1.1	486.6	69675	A904_486.6 S4 ME4SB4	398	A904_486.6 P132 BE132S4	396
3.9	11993	1.2	449.2	69675	A904_449.2 S4 ME4SB4	398	A904_449.2 P132 BE132S4	396
4.6	10291	1.4	385.4	69675	A904_385.4 S4 ME4SB4	398	A904_385.4 P132 BE132S4	396
4.9	9500	1.5	355.8	69675	A904_355.8 S4 ME4SB4	398	A904_355.8 P132 BE132S4	396
5.8	8141	1.7	304.9	69675	A904_304.9 S4 ME4SB4	398	A904_304.9 P132 BE132S4	396
5.9	8020	1.0	300.4	60320	A804_300.4 S4 ME4SB4	390	A804_300.4 P132 BE132S4	388
6.3	7514	1.9	281.4	69675	A904_281.4 S4 ME4SB4	398	A904_281.4 P132 BE132S4	396
6.3	7403	1.1	277.3	60320	A804_277.3 S4 ME4SB4	390	A804_277.3 P132 BE132S4	388
7.6	6211	1.3	232.6	60320	A804_232.6 S4 ME4SB4	390	A804_232.6 P132 BE132S4	388
7.8	6046	2.3	226.4	69675	A904_226.4 S4 ME4SB4	398	A904_226.4 P132 BE132S4	396
8.2	5733	1.4	214.7	60320	A804_214.7 S4 ME4SB4	390	A804_214.7 P132 BE132S4	388
8.4	5581	2.5	209.0	69675	A904_209.0 S4 ME4SB4	398	A904_209.0 P132 BE132S4	396
9.6	4910	1.0	183.9	46350	A704_183.9 S4 ME4SB4	382	A704_183.9 P132 BE132S4	380
9.8	4805	2.9	180.0	69675	A904_180.0 S4 ME4SB4	398	A904_180.0 P132 BE132S4	396
10.3	4574	1.7	171.3	60320	A804_171.3 S4 ME4SB4	390	A804_171.3 P132 BE132S4	388
10.4	4532	1.1	169.8	46350	A704_169.8 S4 ME4SB4	382	A704_169.8 P132 BE132S4	380
11.2	4281	1.9	156.8	60320	A803_156.8 S4 ME4SB4	390	A803_156.8 P132 BE132S4	388
12.2	3951	2.0	144.7	60320	A803_144.7 S4 ME4SB4	390	A803_144.7 P132 BE132S4	388
12.4	3873	1.3	141.9	46350	A703_141.9 S4 ME4SB4	382	A703_141.9 P132 BE132S4	380
13.5	3567	1.4	130.7	46350	A703_130.7 S4 ME4SB4	382	A703_130.7 P132 BE132S4	380
14.0	3429	2.3	125.6	60320	A803_125.6 S4 ME4SB4	390	A803_125.6 P132 BE132S4	388
14.6	3293	1.5	120.6	46350	A703_120.6 S4 ME4SB4	382	A703_120.6 P132 BE132S4	380

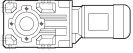

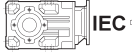




## 5.5 kW

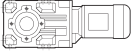

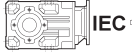


n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
15.2	3166	2.5	116.0	60320	A803_116.0 S4 ME4SB4	390	A803_116.0 P132 BE132S4	388
16.3	2943	1.0	107.8	27810	A603_107.8 S4 ME4SB4	372	A603_107.8 P132 BE132S4	370
16.9	2846	1.8	104.2	46350	A703_104.2 S4 ME4SB4	382	A703_104.2 P132 BE132S4	380
16.9	2840	2.8	104.0	60320	A803_104.0 S4 ME4SB4	390	A803_104.0 P132 BE132S4	388
17.7	2717	1.0	99.5	27810	A603_99.5 S4 ME4SB4	372	A603_99.5 P132 BE132S4	370
18.3	2627	1.8	96.2	46350	A703_96.2 S4 ME4SB4	382	A703_96.2 P132 BE132S4	380
18.3	2622	2.9	96.0	60320	A803_96.0 S4 ME4SB4	390	A803_96.0 P132 BE132S4	388
20.4	2358	1.2	86.4	27810	A603_86.4 S4 ME4SB4	372	A603_86.4 P132 BE132S4	370
20.5	2346	2.1	85.9	46350	A703_85.9 S4 ME4SB4	382	A703_85.9 P132 BE132S4	380
22.1	2176	1.3	79.7	27810	A603_79.7 S4 ME4SB4	372	A603_79.7 P132 BE132S4	370
22.1	2171	0.9	79.5	27780	A553_79.5 S4 ME4SB4	362	A553_79.5 P132 BE132S4	360
22.2	2166	2.1	79.3	46350	A703_79.3 S4 ME4SB4	382	A703_79.3 P132 BE132S4	380
24.3	1980	2.4	72.5	46350	A703_72.5 S4 ME4SB4	382	A703_72.5 P132 BE132S4	380
25.0	1922	1.5	70.4	27810	A603_70.4 S4 ME4SB4	372	A603_70.4 P132 BE132S4	370
26.3	1828	2.5	66.9	46350	A703_66.9 S4 ME4SB4	382	A703_66.9 P132 BE132S4	380
27.1	1774	1.6	65.0	27810	A603_65.0 S4 ME4SB4	372	A603_65.0 P132 BE132S4	370
27.4	1756	1.1	64.3	27780	A553_64.3 S4 ME4SB4	362	A553_64.3 P132 BE132S4	360
31	1574	2.9	57.7	46350	A703_57.7 S4 ME4SB4	382	A703_57.7 P132 BE132S4	380
31	1551	1.0	56.8	12000	A503_56.8 S4 ME4SB4	352	A503_56.8 P132 BE132S4	350
32	1518	1.8	55.6	27810	A603_55.6 S4 ME4SB4	372	A603_55.6 P132 BE132S4	370
34	1411	1.1	51.7	11908	A503_51.7 S4 ME4SB4	352	A503_51.7 P132 BE132S4	350
34	1401	2.0	51.3	27810	A603_51.3 S4 ME4SB4	372	A603_51.3 P132 BE132S4	370
35	1391	1.4	51.0	27780	A553_51.0 S4 ME4SB4	362	A553_51.0 P132 BE132S4	360
39	1234	2.3	45.2	27810	A603_45.2 S4 ME4SB4	372	A603_45.2 P132 BE132S4	370
39	1229	1.2	45.0	11358	A503_45.0 S4 ME4SB4	352	A503_45.0 P132 BE132S4	350
42	1139	2.5	41.7	27810	A603_41.7 S4 ME4SB4	372	A603_41.7 P132 BE132S4	370
43	1118	1.3	40.9	11542	A503_40.9 S4 ME4SB4	352	A503_40.9 P132 BE132S4	350
44	1100	1.7	40.3	27780	A553_40.3 S4 ME4SB4	362	A553_40.3 P132 BE132S4	360
49	972	1.4	35.6	11633	A503_35.6 S4 ME4SB4	352	A503_35.6 P132 BE132S4	350
51	936	3.0	34.3	27810	A603_34.3 S4 ME4SB4	372	A603_34.3 P132 BE132S4	370
54	884	1.6	32.4	11633	A503_32.4 S4 ME4SB4	352	A503_32.4 P132 BE132S4	350
59	817	2.3	29.9	27780	A553_29.9 S4 ME4SB4	362	A553_29.9 P132 BE132S4	360
67	722	1.9	26.4	11542	A503_26.4 S4 ME4SB4	352	A503_26.4 P132 BE132S4	350
73	657	2.1	24.0	11450	A503_24.0 S4 ME4SB4	352	A503_24.0 P132 BE132S4	350
74	649	2.8	23.8	27595	A553_23.8 S4 ME4SB4	362	A553_23.8 P132 BE132S4	360
78	639	1.0	22.7	8519	A412_22.7 S4 ME4SB4	342	A412_22.7 P132 BE132S4	340
84	590	1.9	20.9	13190	A502_20.9 S4 ME4SB4	352	A502_20.9 P132 BE132S4	350
99	501	1.2	17.8	8510	A412_17.8 S4 ME4SB4	342	A412_17.8 P132 BE132S4	340
106	467	2.4	16.6	12458	A502_16.6 S4 ME4SB4	352	A502_16.6 P132 BE132S4	350
109	454	1.2	16.1	8400	A412_16.1 S4 ME4SB4	342	A412_16.1 P132 BE132S4	340
128	388	1.4	13.8	8198	A412_13.8 S4 ME4SB4	342	A412_13.8 P132 BE132S4	340
134	370	2.8	13.1	11725	A502_13.1 S4 ME4SB4	352	A502_13.1 P132 BE132S4	350
149	332	1.1	11.8	5973	A352_11.8 S4 ME4SB4	332	A352_11.8 P132 BE132S4	330
150	331	1.5	11.7	7950	A412_11.7 S4 ME4SB4	342	A412_11.7 P132 BE132S4	340
166	300	1.2	10.6	5889	A352_10.6 S4 ME4SB4	332	A352_10.6 P132 BE132S4	330
174	286	1.7	10.1	7739	A412_10.1 S4 ME4SB4	342	A412_10.1 P132 BE132S4	340
189	263	1.4	9.3	5778	A352_9.3 S4 ME4SB4	332	A352_9.3 P132 BE132S4	330
191	259	2.0	9.2	7565	A412_9.2 S4 ME4SB4	342	A412_9.2 P132 BE132S4	340
208	239	1.5	8.5	5686	A352_8.5 S4 ME4SB4	332	A352_8.5 P132 BE132S4	330
211	235	2.2	8.3	7409	A412_8.3 S4 ME4SB4	342	A412_8.3 P132 BE132S4	340



## 5.5 kW

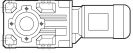



n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
247	201	2.5	7.1	7143	A412_7.1 S4 ME4SB4	342	A412_7.1 P132 BE132S4	340
251	198	1.7	7.0	5491	A352_7.0 S4 ME4SB4	332	A352_7.0 P132 BE132S4	330
275	181	1.8	6.4	5389	A352_6.4 S4 ME4SB4	332	A352_6.4 P132 BE132S4	330
325	153	2.1	5.4	5195	A352_5.4 S4 ME4SB4	332	A352_5.4 P132 BE132S4	330

## 7.5 kW

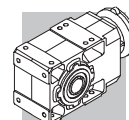
n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
4.6	14065	1.0	385.4	69675	A904_385.4 S4 ME4LA4	398	A904_385.4 P132 BE132MA4	396
4.9	12983	1.1	355.8	69675	A904_355.8 S4 ME4LA4	398	A904_355.8 P132 BE132MA4	396
5.8	11125	1.3	304.9	69675	A904_304.9 S4 ME4LA4	398	A904_304.9 P132 BE132MA4	396
6.3	10270	1.4	281.4	69675	A904_281.4 S4 ME4LA4	398	A904_281.4 P132 BE132MA4	396
7.6	8489	0.9	232.6	60320	A804_232.6 S4 ME4LA4	390	A804_232.6 P132 BE132MA4	388
7.8	8262	1.7	226.4	69675	A904_226.4 S4 ME4LA4	398	A904_226.4 P132 BE132MA4	396
8.2	7836	1.0	214.7	60320	A804_214.7 S4 ME4LA4	390	A804_214.7 P132 BE132MA4	388
8.4	7627	1.8	209.0	69675	A904_209.0 S4 ME4LA4	398	A904_209.0 P132 BE132MA4	396
9.8	6567	2.1	180.0	69675	A904_180.0 S4 ME4LA4	398	A904_180.0 P132 BE132MA4	396
10.3	6251	1.3	171.3	60320	A804_171.3 S4 ME4LA4	390	A804_171.3 P132 BE132MA4	388
10.6	6062	2.3	166.1	69675	A904_166.1 S4 ME4LA4	398	A904_166.1 P132 BE132MA4	396
11.2	5850	1.4	156.8	60320	A803_156.8 S4 ME4LA4	390	A803_156.8 P132 BE132MA4	388
11.7	5634	2.3	151.0	69675	A903_151.0 S4 ME4LA4	398	A903_151.0 P132 BE132MA4	396
12.2	5400	1.5	144.7	60320	A803_144.7 S4 ME4LA4	390	A803_144.7 P132 BE132MA4	388
12.4	5293	0.9	141.9	44960	A703_141.9 S4 ME4LA4	382	A703_141.9 P132 BE132MA4	380
12.6	5201	2.3	139.4	69675	A903_139.4 S4 ME4LA4	398	A903_139.4 P132 BE132MA4	396
13.5	4875	1.0	130.7	44960	A703_130.7 S4 ME4LA4	382	A703_130.7 P132 BE132MA4	380
13.9	4725	2.6	126.6	69675	A903_126.6 S4 ME4LA4	398	A903_126.6 P132 BE132MA4	396
14.0	4687	1.7	125.6	60320	A803_125.6 S4 ME4LA4	390	A803_125.6 P132 BE132MA4	388
14.6	4500	1.1	120.6	46350	A703_120.6 S4 ME4LA4	382	A703_120.6 P132 BE132MA4	380
15.2	4326	1.8	116.0	60320	A803_116.0 S4 ME4LA4	390	A803_116.0 P132 BE132MA4	388
16.9	3889	1.3	104.2	46350	A703_104.2 S4 ME4LA4	382	A703_104.2 P132 BE132MA4	380
16.9	3881	2.1	104.0	60320	A803_104.0 S4 ME4LA4	390	A803_104.0 P132 BE132MA4	388
18.3	3590	1.4	96.2	46350	A703_96.2 S4 ME4LA4	382	A703_96.2 P132 BE132MA4	380
18.3	3583	2.1	96.0	60320	A803_96.0 S4 ME4LA4	390	A803_96.0 P132 BE132MA4	388
19.7	3327	2.3	89.2	60320	A803_89.2 S4 ME4LA4	390	A803_89.2 P132 BE132MA4	388
20.5	3206	1.5	85.9	46350	A703_85.9 S4 ME4LA4	382	A703_85.9 P132 BE132MA4	380
21.4	3071	2.4	82.3	60320	A803_82.3 S4 ME4LA4	390	A803_82.3 P132 BE132MA4	388
22.1	2974	0.9	79.7	27810	A603_79.7 S4 ME4LA4	372	A603_79.7 P132 BE132MA4	370
22.2	2960	1.6	79.3	46350	A703_79.3 S4 ME4LA4	382	A703_79.3 P132 BE132MA4	380
24.3	2706	1.8	72.5	46350	A703_72.5 S4 ME4LA4	382	A703_72.5 P132 BE132MA4	380
24.3	2700	2.7	72.4	60320	A803_72.4 S4 ME4LA4	390	A803_72.4 P132 BE132MA4	388
25.0	2627	1.1	70.4	27810	A603_70.4 S4 ME4LA4	372	A603_70.4 P132 BE132MA4	370
26.3	2498	1.9	66.9	46350	A703_66.9 S4 ME4LA4	382	A703_66.9 P132 BE132MA4	380
26.3	2492	3.0	66.8	60320	A803_66.8 S4 ME4LA4	390	A803_66.8 P132 BE132MA4	388



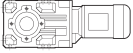

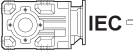


## 7.5 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
27.1	2425	1.2	65.0	27810	A603_65.0 S4 ME4LA4	372	A603_65.0 P132 BE132MA4	370
31	2152	2.2	57.7	46350	A703_57.7 S4 ME4LA4	382	A703_57.7 P132 BE132MA4	380
32	2075	1.3	55.6	27810	A603_55.6 S4 ME4LA4	372	A603_55.6 P132 BE132MA4	370
33	1986	2.3	53.2	46350	A703_53.2 S4 ME4LA4	382	A703_53.2 P132 BE132MA4	380
34	1915	1.5	51.3	27810	A603_51.3 S4 ME4LA4	372	A603_51.3 P132 BE132MA4	370
35	1901	1.1	51.0	26298	A553_51.0 S4 ME4LA4	362	A553_51.0 P132 BE132MA4	360
36	1828	2.5	49.0	46350	A703_49.0 S4 ME4LA4	382	A703_49.0 P132 BE132MA4	380
39	1688	2.6	45.2	46350	A703_45.2 S4 ME4LA4	382	A703_45.2 P132 BE132MA4	380
39	1686	1.7	45.2	27810	A603_45.2 S4 ME4LA4	372	A603_45.2 P132 BE132MA4	370
42	1556	1.8	41.7	27810	A603_41.7 S4 ME4LA4	372	A603_41.7 P132 BE132MA4	370
43	1527	0.9	40.9	9893	A503_40.9 S4 ME4LA4	352	A503_40.9 P132 BE132MA4	350
44	1504	1.2	40.3	27780	A553_40.3 S4 ME4LA4	362	A553_40.3 P132 BE132MA4	360
49	1328	1.0	35.6	9252	A503_35.6 S4 ME4LA4	352	A503_35.6 P132 BE132MA4	350
51	1280	2.2	34.3	27810	A603_34.3 S4 ME4LA4	372	A603_34.3 P132 BE132MA4	370
54	1208	1.2	32.4	9435	A503_32.4 S4 ME4LA4	352	A503_32.4 P132 BE132MA4	350
56	1181	2.4	31.7	27810	A603_31.7 S4 ME4LA4	372	A603_31.7 P132 BE132MA4	370
59	1117	1.7	29.9	27780	A553_29.9 S4 ME4LA4	362	A553_29.9 P132 BE132MA4	360
63	1039	2.7	27.9	27810	A603_27.9 S4 ME4LA4	372	A603_27.9 P132 BE132MA4	370
67	986	1.4	26.4	9801	A503_26.4 S4 ME4LA4	352	A503_26.4 P132 BE132MA4	350
68	959	2.9	25.7	27810	A603_25.7 S4 ME4LA4	372	A603_25.7 P132 BE132MA4	370
73	897	1.5	24.0	9893	A503_24.0 S4 ME4LA4	352	A503_24.0 P132 BE132MA4	350
74	888	2.0	23.8	26669	A553_23.8 S4 ME4LA4	362	A553_23.8 P132 BE132MA4	360
84	806	1.4	20.9	12549	A502_20.9 S4 ME4LA4	352	A502_20.9 P132 BE132MA4	350
85	794	2.3	20.6	27810	A602_20.6 S4 ME4LA4	372	A602_20.6 P132 BE132MA4	370
92	741	2.3	19.2	26669	A552_19.2 S4 ME4LA4	362	A552_19.2 P132 BE132MA4	360
105	645	2.9	16.7	27810	A602_16.7 S4 ME4LA4	372	A602_16.7 P132 BE132MA4	370
106	639	1.7	16.6	11908	A502_16.6 S4 ME4LA4	352	A502_16.6 P132 BE132MA4	350
109	620	0.9	16.1	7510	A412_16.1 S4 ME4LA4	342	A412_16.1 P132 BE132MA4	340
112	604	2.8	15.7	25280	A552_15.7 S4 ME4LA4	362	A552_15.7 P132 BE132MA4	360
128	530	1.0	13.8	7455	A412_13.8 S4 ME4LA4	342	A412_13.8 P132 BE132MA4	340
134	505	2.0	13.1	11267	A502_13.1 S4 ME4LA4	352	A502_13.1 P132 BE132MA4	350
150	452	1.1	11.7	7308	A412_11.7 S4 ME4LA4	342	A412_11.7 P132 BE132MA4	340
166	410	0.9	10.6	5315	A352_10.6 S4 ME4LA4	332	A352_10.6 P132 BE132MA4	330
174	390	1.3	10.1	7198	A412_10.1 S4 ME4LA4	342	A412_10.1 P132 BE132MA4	340
181	375	2.5	9.7	10534	A502_9.7 S4 ME4LA4	352	A502_9.7 P132 BE132MA4	350
189	359	1.0	9.3	5232	A352_9.3 S4 ME4LA4	332	A352_9.3 P132 BE132MA4	330
191	354	1.4	9.2	7070	A412_9.2 S4 ME4LA4	342	A412_9.2 P132 BE132MA4	340
208	326	1.1	8.5	5186	A352_8.5 S4 ME4LA4	332	A352_8.5 P132 BE132MA4	330
211	321	1.6	8.3	6960	A412_8.3 S4 ME4LA4	342	A412_8.3 P132 BE132MA4	340
227	298	3.0	7.7	9893	A502_7.7 S4 ME4LA4	352	A502_7.7 P132 BE132MA4	350
247	275	1.9	7.1	6758	A412_7.1 S4 ME4LA4	342	A412_7.1 P132 BE132MA4	340
251	271	1.3	7.0	5084	A352_7.0 S4 ME4LA4	332	A352_7.0 P132 BE132MA4	330
275	247	1.3	6.4	5000	A352_6.4 S4 ME4LA4	332	A352_6.4 P132 BE132MA4	330
325	209	1.5	5.4	4880	A352_5.4 S4 ME4LA4	332	A352_5.4 P132 BE132MA4	330
336	202	2.5	5.2	6346	A412_5.2 S4 ME4LA4	342	A412_5.2 P132 BE132MA4	340



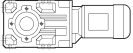






## 9.2 kW

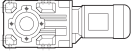




n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
5.8	13568	1.0	304.9	69675	A904_304.9 S4 ME4LB4	398	A904_304.9 P132 BE132MB4	396
6.3	12524	1.1	281.4	69675	A904_281.4 S4 ME4LB4	398	A904_281.4 P132 BE132MB4	396
7.8	10076	1.4	226.4	69675	A904_226.4 S4 ME4LB4	398	A904_226.4 P132 BE132MB4	396
8.4	9301	1.5	209.0	69675	A904_209.0 S4 ME4LB4	398	A904_209.0 P132 BE132MB4	396
9.8	8009	1.7	180.0	69675	A904_180.0 S4 ME4LB4	398	A904_180.0 P132 BE132MB4	396
10.3	7623	1.0	171.3	60320	A804_171.3 S4 ME4LB4	390	A804_171.3 P132 BE132MB4	388
10.6	7393	1.9	166.1	69675	A904_166.1 S4 ME4LB4	398	A904_166.1 P132 BE132MB4	396
11.2	7134	1.1	156.8	60320	A803_156.8 S4 ME4LB4	390	A803_156.8 P132 BE132MB4	388
11.7	6871	1.9	151.0	69675	A903_151.0 S4 ME4LB4	398	A903_151.0 P132 BE132MB4	396
12.2	6586	1.2	144.7	60320	A803_144.7 S4 ME4LB4	390	A803_144.7 P132 BE132MB4	388
12.6	6342	1.9	139.4	69675	A903_139.4 S4 ME4LB4	398	A903_139.4 P132 BE132MB4	396
13.9	5762	2.1	126.6	69675	A903_126.6 S4 ME4LB4	398	A903_126.6 P132 BE132MB4	396
14.0	5716	1.4	125.6	60320	A803_125.6 S4 ME4LB4	390	A803_125.6 P132 BE132MB4	388
14.6	5488	0.9	120.6	46350	A703_120.6 S4 ME4LB4	382	A703_120.6 P132 BE132MB4	380
15.1	5319	2.6	116.9	69675	A903_116.9 S4 ME4LB4	398	A903_116.9 P132 BE132MB4	396
15.2	5276	1.5	116.0	60320	A803_116.0 S4 ME4LB4	390	A803_116.0 P132 BE132MB4	388
16.5	4860	2.9	106.8	69675	A903_106.8 S4 ME4LB4	398	A903_106.8 P132 BE132MB4	396
16.9	4743	1.1	104.2	46350	A703_104.2 S4 ME4LB4	382	A703_104.2 P132 BE132MB4	380
16.9	4733	1.7	104.0	60320	A803_104.0 S4 ME4LB4	390	A803_104.0 P132 BE132MB4	388
18.3	4378	1.1	96.2	46350	A703_96.2 S4 ME4LB4	382	A703_96.2 P132 BE132MB4	380
18.3	4369	1.7	96.0	60320	A803_96.0 S4 ME4LB4	390	A803_96.0 P132 BE132MB4	388
19.7	4058	1.9	89.2	60320	A803_89.2 S4 ME4LB4	390	A803_89.2 P132 BE132MB4	388
20.5	3910	1.3	85.9	46350	A703_85.9 S4 ME4LB4	382	A703_85.9 P132 BE132MB4	380
21.4	3746	2.0	82.3	60320	A803_82.3 S4 ME4LB4	390	A803_82.3 P132 BE132MB4	388
22.2	3609	1.3	79.3	46350	A703_79.3 S4 ME4LB4	382	A703_79.3 P132 BE132MB4	380
24.3	3300	1.4	72.5	46350	A703_72.5 S4 ME4LB4	382	A703_72.5 P132 BE132MB4	380
24.3	3293	2.2	72.4	60320	A803_72.4 S4 ME4LB4	390	A803_72.4 P132 BE132MB4	388
26.3	3046	1.5	66.9	46350	A703_66.9 S4 ME4LB4	382	A703_66.9 P132 BE132MB4	380
26.3	3040	2.4	66.8	59206	A803_66.8 S4 ME4LB4	390	A803_66.8 P132 BE132MB4	388
27.1	2957	0.9	65.0	27810	A603_65.0 S4 ME4LB4	372	A603_65.0 P132 BE132MB4	370
29.4	2720	2.7	59.8	57907	A803_59.8 S4 ME4LB4	390	A803_59.8 P132 BE132MB4	388
31	2624	1.8	57.7	46350	A703_57.7 S4 ME4LB4	382	A703_57.7 P132 BE132MB4	380
32	2530	1.1	55.6	27810	A603_55.6 S4 ME4LB4	372	A603_55.6 P132 BE132MB4	370
32	2511	2.9	55.2	56886	A803_55.2 S4 ME4LB4	390	A803_55.2 P132 BE132MB4	388
33	2422	1.9	53.2	46350	A703_53.2 S4 ME4LB4	382	A703_53.2 P132 BE132MB4	380
34	2335	1.2	51.3	27810	A603_51.3 S4 ME4LB4	372	A603_51.3 P132 BE132MB4	370
36	2230	2.1	49.0	46350	A703_49.0 S4 ME4LB4	382	A703_49.0 P132 BE132MB4	380
39	2058	2.2	45.2	46350	A703_45.2 S4 ME4LB4	382	A703_45.2 P132 BE132MB4	380
39	2056	1.4	45.2	27810	A603_45.2 S4 ME4LB4	372	A603_45.2 P132 BE132MB4	370
42	1898	1.5	41.7	27810	A603_41.7 S4 ME4LB4	372	A603_41.7 P132 BE132MB4	370
44	1834	1.0	40.3	26391	A553_40.3 S4 ME4LB4	362	A553_40.3 P132 BE132MB4	360
46	1746	2.6	38.4	46350	A703_38.4 S4 ME4LB4	382	A703_38.4 P132 BE132MB4	380
50	1612	2.6	35.4	46350	A703_35.4 S4 ME4LB4	382	A703_35.4 P132 BE132MB4	380
51	1561	1.8	34.3	27810	A603_34.3 S4 ME4LB4	372	A603_34.3 P132 BE132MB4	370
54	1473	0.9	32.4	8702	A503_32.4 S4 ME4LB4	352	A503_32.4 P132 BE132MB4	350
56	1441	1.9	31.7	27810	A603_31.7 S4 ME4LB4	372	A603_31.7 P132 BE132MB4	370
59	1362	1.4	29.9	26947	A553_29.9 S4 ME4LB4	362	A553_29.9 P132 BE132MB4	360
63	1267	2.2	27.9	27810	A603_27.9 S4 ME4LB4	372	A603_27.9 P132 BE132MB4	370
67	1203	1.2	26.4	8363	A503_26.4 S4 ME4LB4	352	A503_26.4 P132 BE132MB4	350
68	1170	2.4	25.7	27810	A603_25.7 S4 ME4LB4	372	A603_25.7 P132 BE132MB4	370
73	1094	1.3	24.0	8583	A503_24.0 S4 ME4LB4	352	A503_24.0 P132 BE132MB4	350
74	1082	1.7	23.8	25835	A553_23.8 S4 ME4LB4	362	A553_23.8 P132 BE132MB4	360
84	983	1.1	20.9	11908	A502_20.9 S4 ME4LB4	352	A502_20.9 P132 BE132MB4	350
85	968	1.9	20.6	27810	A602_20.6 S4 ME4LB4	372	A602_20.6 P132 BE132MB4	370
92	904	1.8	19.2	26298	A552_19.2 S4 ME4LB4	362	A552_19.2 P132 BE132MB4	360
105	787	2.4	16.7	27810	A602_16.7 S4 ME4LB4	372	A602_16.7 P132 BE132MB4	370
106	779	1.4	16.6	11450	A502_16.6 S4 ME4LB4	352	A502_16.6 P132 BE132MB4	350

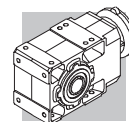


## 9.2 kW

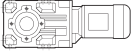

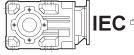


n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
112	737	2.3	15.7	25002	A552_15.7 S4 ME4LB4	362	A552_15.7 P132 BE132MB4	360
134	616	1.7	13.1	10900	A502_13.1 S4 ME4LB4	352	A502_13.1 P132 BE132MB4	350
135	615	2.7	13.1	23891	A552_13.1 S4 ME4LB4	362	A552_13.1 P132 BE132MB4	360
135	614	0.9	13.1	4862	A352_13.1 S4 ME4LB4	332	A352_13.1 P132 BE132MB4	330
150	552	0.9	11.7	6731	A412_11.7 S4 ME4LB4	342	A412_11.7 P132 BE132MB4	340
174	476	1.0	10.1	6731	A412_10.1 S4 ME4LB4	342	A412_10.1 P132 BE132MB4	340
181	457	2.0	9.7	10259	A502_9.7 S4 ME4LB4	352	A502_9.7 P132 BE132MB4	350
191	432	1.2	9.2	6648	A412_9.2 S4 ME4LB4	342	A412_9.2 P132 BE132MB4	340
211	392	1.3	8.3	6575	A412_8.3 S4 ME4LB4	342	A412_8.3 P132 BE132MB4	340
227	364	2.4	7.7	9710	A502_7.7 S4 ME4LB4	352	A502_7.7 P132 BE132MB4	350
247	335	1.5	7.1	6437	A412_7.1 S4 ME4LB4	342	A412_7.1 P132 BE132MB4	340
251	330	1.0	7.0	4732	A352_7.0 S4 ME4LB4	332	A352_7.0 P132 BE132MB4	330
275	301	1.1	6.4	4695	A352_6.4 S4 ME4LB4	332	A352_6.4 P132 BE132MB4	330
325	254	1.2	5.4	4611	A352_5.4 S4 ME4LB4	332	A352_5.4 P132 BE132MB4	330
336	247	2.1	5.2	6107	A412_5.2 S4 ME4LB4	342	A412_5.2 P132 BE132MB4	340

## 11 kW



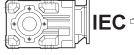


n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
6.3	15029	0.9	281.4	69675			A904_281.4 P160 BE160M4	396
7.8	12091	1.2	226.4	69675			A904_226.4 P160 BE160M4	396
8.4	11161	1.3	209.0	69675			A904_209.0 P160 BE160M4	396
9.8	9610	1.5	180.0	69675			A904_180.0 P160 BE160M4	396
10.6	8871	1.6	166.1	69675			A904_166.1 P160 BE160M4	396
11.3	8561	0.9	156.8	58464	A803_156.8 S5 ME5SA4	390	A803_156.8 P160 BE160M4	388
11.7	8245	1.5	151.0	69675	A903_151.0 S5 ME5SA4	398	A903_151.0 P160 BE160M4	396
12.2	7903	1.0	144.7	58464	A803_144.7 S5 ME5SA4	390	A803_144.7 P160 BE160M4	388
12.7	7611	1.6	139.4	69675	A903_139.4 S5 ME5SA4	398	A903_139.4 P160 BE160M4	396
13.9	6915	1.8	126.6	69675	A903_126.6 S5 ME5SA4	398	A903_126.6 P160 BE160M4	396
14.1	6859	1.2	125.6	60320	A803_125.6 S5 ME5SA4	390	A803_125.6 P160 BE160M4	388
15.1	6383	2.2	116.9	69675	A903_116.9 S5 ME5SA4	398	A903_116.9 P160 BE160M4	396
15.2	6331	1.3	116.0	60320	A803_116.0 S5 ME5SA4	390	A803_116.0 P160 BE160M4	388
16.5	5832	2.4	106.8	69675	A903_106.8 S5 ME5SA4	398	A903_106.8 P160 BE160M4	396
17.0	5680	1.4	104.0	60320	A803_104.0 S5 ME5SA4	390	A803_104.0 P160 BE160M4	388
17.9	5384	2.6	98.6	69675	A903_98.6 S5 ME5SA4	398	A903_98.6 P160 BE160M4	396
18.3	5254	0.9	96.2	46350	A703_96.2 S5 ME5SA4	382	A703_96.2 P160 BE160M4	380
18.4	5243	1.4	96.0	60320	A803_96.0 S5 ME5SA4	390	A803_96.0 P160 BE160M4	388
19.8	4869	1.6	89.2	60320	A803_89.2 S5 ME5SA4	390	A803_89.2 P160 BE160M4	388
20.3	4754	2.9	87.1	69675	A903_87.1 S5 ME5SA4	398	A903_87.1 P160 BE160M4	396
20.5	4692	1.1	85.9	46350	A703_85.9 S5 ME5SA4	382	A703_85.9 P160 BE160M4	380
21.4	4495	1.6	82.3	59856	A803_82.3 S5 ME5SA4	390	A803_82.3 P160 BE160M4	388
22.2	4331	1.1	79.3	46350	A703_79.3 S5 ME5SA4	382	A703_79.3 P160 BE160M4	380
24.3	3960	1.2	72.5	46350	A703_72.5 S5 ME5SA4	382	A703_72.5 P160 BE160M4	380
24.4	3951	1.9	72.4	58650	A803_72.4 S5 ME5SA4	390	A803_72.4 P160 BE160M4	388
26.4	3655	1.3	66.9	46350	A703_66.9 S5 ME5SA4	382	A703_66.9 P160 BE160M4	380
26.4	3647	2.0	66.8	57722	A803_66.8 S5 ME5SA4	390	A803_66.8 P160 BE160M4	388
29.5	3264	2.3	59.8	56515	A803_59.8 S5 ME5SA4	390	A803_59.8 P160 BE160M4	388
31	3149	1.5	57.7	46350	A703_57.7 S5 ME5SA4	382	A703_57.7 P160 BE160M4	380
32	3036	0.9	55.6	27810	A603_55.6 S5 ME5SA4	372	A603_55.6 P160 BE160M4	370
32	3013	2.4	55.2	55587	A803_55.2 S5 ME5SA4	390	A803_55.2 P160 BE160M4	388
33	2907	1.6	53.2	46350	A703_53.2 S5 ME5SA4	382	A703_53.2 P160 BE160M4	380



## 11 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
34	2802	1.0	51.3	27810	A603_51.3 S5 ME5SA4	372	A603_51.3 P160 BE160M4	370
36	2675	1.7	49.0	46350	A703_49.0 S5 ME5SA4	382	A703_49.0 P160 BE160M4	380
37	2631	2.8	48.2	54102	A803_48.2 S5 ME5SA4	390	A803_48.2 P160 BE160M4	388
39	2470	1.8	45.2	46350	A703_45.2 S5 ME5SA4	382	A703_45.2 P160 BE160M4	380
39	2467	1.1	45.2	27810	A603_45.2 S5 ME5SA4	372	A603_45.2 P160 BE160M4	370
40	2428	2.8	44.5	53174	A803_44.5 S5 ME5SA4	390	A803_44.5 P160 BE160M4	388
42	2278	1.2	41.7	27810	A603_41.7 S5 ME5SA4	372	A603_41.7 P160 BE160M4	370
46	2096	2.1	38.4	46350	A703_38.4 S5 ME5SA4	382	A703_38.4 P160 BE160M4	380
50	1935	2.2	35.4	46350	A703_35.4 S5 ME5SA4	382	A703_35.4 P160 BE160M4	380
51	1873	1.5	34.3	27810	A603_34.3 S5 ME5SA4	372	A603_34.3 P160 BE160M4	370
56	1729	1.6	31.7	27810	A603_31.7 S5 ME5SA4	372	A603_31.7 P160 BE160M4	370
59	1643	2.6	30.1	45794			A703_30.1 P160 BE160M4	380
59	1634	1.1	29.9	26113	A553_29.9 S5 ME5SA4	362	A553_29.9 P160 BE160M4	360
63	1521	1.8	27.9	27810	A603_27.9 S5 ME5SA4	372	A603_27.9 P160 BE160M4	370
64	1517	2.6	27.8	44960			A703_27.8 P160 BE160M4	380
67	1443	1.0	26.4	7694	A503_26.4 S5 ME5SA4	352	A503_26.4 P160 BE160M4	350
69	1404	2.0	25.7	27810	A603_25.7 S5 ME5SA4	372	A603_25.7 P160 BE160M4	370
73	1313	1.1	24.0	7145	A503_24.0 S5 ME5SA4	352	A503_24.0 P160 BE160M4	350
74	1299	1.4	23.8	24076	A553_23.8 S5 ME5SA4	362	A553_23.8 P160 BE160M4	360
84	1180	0.9	20.9	12000	A502_20.9 S5 ME5SA4	352	A502_20.9 P160 BE160M4	350
86	1162	1.6	20.6	27810	A602_20.6 S5 ME5SA4	372	A602_20.6 P160 BE160M4	370
92	1085	1.5	19.2	25835	A552_19.2 S5 ME5SA4	362	A552_19.2 P160 BE160M4	360
105	944	2.0	16.7	27810	A602_16.7 S5 ME5SA4	372	A602_16.7 P160 BE160M4	370
107	935	1.2	16.6	10992	A502_16.6 S5 ME5SA4	352	A502_16.6 P160 BE160M4	350
113	884	1.9	15.7	24632	A552_15.7 S5 ME5SA4	362	A552_15.7 P160 BE160M4	360
135	739	1.4	13.1	10534	A502_13.1 S5 ME5SA4	352	A502_13.1 P160 BE160M4	350
135	738	2.3	13.1	23520	A552_13.1 S5 ME5SA4	362	A552_13.1 P160 BE160M4	360
139	716	2.6	12.7	27810	A602_12.7 S5 ME5SA4	372	A602_12.7 P160 BE160M4	370
170	584	2.9	10.4	22224	A552_10.4 S5 ME5SA4	362	A552_10.4 P160 BE160M4	360
181	549	1.7	9.7	9893	A502_9.7 S5 ME5SA4	352	A502_9.7 P160 BE160M4	350
228	436	2.0	7.7	9435	A502_7.7 S5 ME5SA4	352	A502_7.7 P160 BE160M4	350

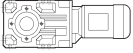


## 15 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
8.5	15068	0.9	209.0	69675			A904_209.0 P160 BE160L4	396
9.8	12974	1.1	180.0	69675			A904_180.0 P160 BE160L4	396
10.7	11976	1.2	166.1	69675			A904_166.1 P160 BE160L4	396
11.7	11131	1.1	151.0	69675	A903_151.0 S5 ME5LA4	398	A903_151.0 P160 BE160L4	396
12.7	10275	1.1	139.4	69675	A903_139.4 S5 ME5LA4	398	A903_139.4 P160 BE160L4	396
14.0	9335	1.3	126.6	69675	A903_126.6 S5 ME5LA4	398	A903_126.6 P160 BE160L4	396
15.1	8617	1.6	116.9	69675	A903_116.9 S5 ME5LA4	398	A903_116.9 P160 BE160L4	396
15.3	8547	0.9	116.0	54938	A803_116.0 S5 ME5LA4	390	A803_116.0 P160 BE160L4	388
16.6	7874	1.8	106.8	69675	A903_106.8 S5 ME5LA4	398	A903_106.8 P160 BE160L4	396
17.0	7668	1.0	104.0	55494	A803_104.0 S5 ME5LA4	390	A803_104.0 P160 BE160L4	388
18.0	7268	1.9	98.6	69675	A903_98.6 S5 ME5LA4	398	A903_98.6 P160 BE160L4	396
18.4	7078	1.1	96.0	56237	A803_96.0 S5 ME5LA4	390	A803_96.0 P160 BE160L4	388
19.8	6573	1.2	89.2	56051	A803_89.2 S5 ME5LA4	390	A803_89.2 P160 BE160L4	388
20.3	6418	2.2	87.1	69675	A903_87.1 S5 ME5LA4	398	A903_87.1 P160 BE160L4	396
21.5	6068	1.2	82.3	55494	A803_82.3 S5 ME5LA4	390	A803_82.3 P160 BE160L4	388

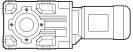




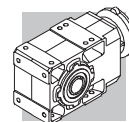


## 15 kW

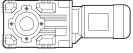

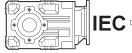

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
22.0	5924	2.4	80.4	69675	A903_80.4 S5 ME5LA4	398	A903_80.4 P160 BE160L4	396
23.8	5490	2.6	74.5	69675	A903_74.5 S5 ME5LA4	398	A903_74.5 P160 BE160L4	396
24.5	5334	1.4	72.4	54845	A803_72.4 S5 ME5LA4	390	A803_72.4 P160 BE160L4	388
25.7	5068	2.7	68.8	69675	A903_68.8 S5 ME5LA4	398	A903_68.8 P160 BE160L4	396
26.4	4934	0.9	66.9	45608	A703_66.9 S5 ME5LA4	382	A703_66.9 P160 BE160L4	380
26.5	4924	1.5	66.8	54102	A803_66.8 S5 ME5LA4	390	A803_66.8 P160 BE160L4	388
29.6	4406	1.7	59.8	53360	A803_59.8 S5 ME5LA4	390	A803_59.8 P160 BE160L4	388
31	4251	1.1	57.7	46350	A703_57.7 S5 ME5LA4	382	A703_57.7 P160 BE160L4	380
32	4067	1.8	55.2	52618	A803_55.2 S5 ME5LA4	390	A803_55.2 P160 BE160L4	388
33	3924	1.2	53.2	46350	A703_53.2 S5 ME5LA4	382	A703_53.2 P160 BE160L4	380
36	3612	1.3	49.0	46350	A703_49.0 S5 ME5LA4	382	A703_49.0 P160 BE160L4	380
37	3552	2.1	48.2	51504	A803_48.2 S5 ME5LA4	390	A803_48.2 P160 BE160L4	388
39	3334	1.3	45.2	46350	A703_45.2 S5 ME5LA4	382	A703_45.2 P160 BE160L4	380
40	3278	2.1	44.5	50762	A803_44.5 S5 ME5LA4	390	A803_44.5 P160 BE160L4	388
42	3075	0.9	41.7	27810	A603_41.7 S5 ME5LA4	372	A603_41.7 P160 BE160L4	370
46	2838	2.5	38.5	47514			A803_38.5 P160 BE160L4	388
46	2829	1.6	38.4	46257	A703_38.4 S5 ME5LA4	382	A703_38.4 P160 BE160L4	380
50	2620	2.5	35.5	47328			A803_35.5 P160 BE160L4	388
50	2612	1.6	35.4	45516	A703_35.4 S5 ME5LA4	382	A703_35.4 P160 BE160L4	380
52	2528	1.1	34.3	27810	A603_34.3 S5 ME5LA4	372	A603_34.3 P160 BE160L4	370
56	2334	1.2	31.7	27810	A603_31.7 S5 ME5LA4	372	A603_31.7 P160 BE160L4	370
58	2254	2.7	30.6	45936			A803_30.6 P160 BE160L4	388
59	2219	1.9	30.1	44125			A703_30.1 P160 BE160L4	380
63	2080	2.9	28.2	44080			A803_28.2 P160 BE160L4	388
64	2053	1.4	27.9	27810	A603_27.9 S5 ME5LA4	372	A603_27.9 P160 BE160L4	370
64	2048	1.9	27.8	43291			A703_27.8 P160 BE160L4	380
69	1895	1.5	25.7	27810	A603_25.7 S5 ME5LA4	372	A603_25.7 P160 BE160L4	370
74	1754	1.0	23.8	20928	A553_23.8 S5 ME5LA4	362	A553_23.8 P160 BE160L4	360
75	1734	2.3	23.5	41808			A703_23.5 P160 BE160L4	380
83	1570	2.4	21.3	40881	A703_21.3 S5 ME5LA4	382	A703_21.3 P160 BE160L4	380
86	1568	1.2	20.6	27810	A602_20.6 S5 ME5LA4	372	A602_20.6 P160 BE160L4	370
90	1450	2.4	19.7	40139	A703_19.7 S5 ME5LA4	382	A703_19.7 P160 BE160L4	380
92	1464	1.1	19.2	24817	A552_19.2 S5 ME5LA4	362	A552_19.2 P160 BE160L4	360
106	1274	1.5	16.7	27810	A602_16.7 S5 ME5LA4	372	A602_16.7 P160 BE160L4	370
113	1194	1.4	15.7	23798	A552_15.7 S5 ME5LA4	362	A552_15.7 P160 BE160L4	360
135	998	1.0	13.1	9618	A502_13.1 S5 ME5LA4	352	A502_13.1 P160 BE160L4	350
135	996	1.7	13.1	22872	A552_13.1 S5 ME5LA4	362	A552_13.1 P160 BE160L4	360
139	967	1.9	12.7	27810	A602_12.7 S5 ME5LA4	372	A602_12.7 P160 BE160L4	370
171	788	2.1	10.4	21668	A552_10.4 S5 ME5LA4	362	A552_10.4 P160 BE160L4	360
172	785	2.4	10.3	27810	A602_10.3 S5 ME5LA4	372	A602_10.3 P160 BE160L4	370
182	741	1.3	9,7	9252	A502_9.7 S5 ME5LA4	352	A502_9.7 P160 BE160L4	350
209	644	2,6	8,5	20557	A552_8.5 S5 ME5LA4	362	A552_8.5 P160 BE160L4	360
229	589	1,5	7,7	8931	A502_7.7 S5 ME5LA4	352	A502_7.7 P160 BE160L4	350

## 18.5 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			
10.6	14785	0.9	166.1	69675		A904_166.1 P180 BE180M4	396
11.7	13742	0.9	151.0	69675		A903_151.0 P180 BE180M4	396
12.7	12685	0.9	139.4	69675		A903_139.4 P180 BE180M4	396
13.9	11525	1.1	126.6	69675		A903_126.6 P180 BE180M4	396
15.1	10638	1.3	116.9	69675		A903_116.9 P180 BE180M4	396
16.5	9721	1.4	106.8	69675		A903_106.8 P180 BE180M4	396

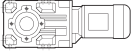




## 18.5 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
17.9	8973	1.6	98.6	69675			A903_98.6 P180 BE180M4	396
19.8	8115	1.0	89.2	52989			A803_89.2 P180 BE180M4	388
20.3	7923	1.8	87.1	69675			A903_87.1 P180 BE180M4	396
21.4	7491	1.0	82.3	51226			A803_82.3 P180 BE180M4	388
22.0	7314	1.9	80.4	69675			A903_80.4 P180 BE180M4	396
23.7	6778	2.1	74.5	69675			A903_74.5 P180 BE180M4	396
24.4	6586	1.1	72.4	51597			A803_72.4 P180 BE180M4	388
25.7	6256	2.2	68.8	69675			A903_68.8 P180 BE180M4	396
26.4	6079	1.2	66.8	51133			A803_66.8 P180 BE180M4	388
29.5	5440	1.4	59.8	50762			A803_59.8 P180 BE180M4	388
29.6	5425	2.5	59.6	69675			A903_59.6 P180 BE180M4	396
32	5022	1.5	55.2	50205			A803_55.2 P180 BE180M4	388
32	5008	2.6	55.0	69582			A903_55.0 P180 BE180M4	396
33	4844	1.0	53.2	43569			A703_53.2 P180 BE180M4	380
36	4459	1.0	49.0	45979			A703_49.0 P180 BE180M4	380
37	4395	2.9	48.3	67910			A903_48.3 P180 BE180M4	396
37	4385	1.7	48.2	49370			A803_48.2 P180 BE180M4	388
39	4116	1.1	45.2	45423			A703_45.2 P180 BE180M4	380
40	4047	1.7	44.5	48720			A803_44.5 P180 BE180M4	388
46	3504	2.0	38.5	47699			A803_38.5 P180 BE180M4	388
46	3493	1.3	38.4	44496			A703_38.4 P180 BE180M4	380
50	3234	2.0	35.5	46957			A803_35.5 P180 BE180M4	388
50	3224	1.3	35.4	43847			A703_35.4 P180 BE180M4	380
56	2881	1.0	31.7	27810			A603_31.7 P180 BE180M4	370
58	2782	2.1	30.6	45750			A803_30.6 P180 BE180M4	388
59	2739	1.5	30.1	42735			A703_30.1 P180 BE180M4	380
63	2568	2.4	28.2	45008			A803_28.2 P180 BE180M4	388
63	2535	1.1	27.9	27810			A603_27.9 P180 BE180M4	370
64	2528	1.5	27.8	41993			A703_27.8 P180 BE180M4	380
69	2340	1.2	25.7	27810			A603_25.7 P180 BE180M4	370
72	2230	2.8	24.5	43802			A803_24.5 P180 BE180M4	388
75	2140	1.9	23.5	40695			A703_23.5 P180 BE180M4	380
78	2058	2.8	22.6	42966			A803_22.6 P180 BE180M4	388
83	1939	1.9	21.3	39861			A703_21.3 P180 BE180M4	380
86	1936	1.0	20.6	27810			A602_20.6 P180 BE180M4	370
90	1790	1.9	19.7	39212			A703_19.7 P180 BE180M4	380
92	1808	0.9	19.2	24076			A552_19.2 P180 BE180M4	360
105	1573	1.2	16.7	27810			A602_16.7 P180 BE180M4	370
106	1519	2.4	16.7	37822			A703_16.7 P180 BE180M4	380
113	1474	1.1	15.7	23150			A552_15.7 P180 BE180M4	360
115	1402	2.4	15.4	37173			A703_15.4 P180 BE180M4	380
135	1191	3.0	13.1	35782			A703_13.1 P180 BE180M4	380
135	1229	1.4	13.1	22317			A552_13.1 P180 BE180M4	360
139	1194	1.6	12.7	27810			A602_12.7 P180 BE180M4	370
146	1099	3.0	12.1	35041			A703_12.1 P180 BE180M4	380
170	973	1.7	10.4	21205			A552_10.4 P180 BE180M4	360
171	970	1.9	10.3	27717			A602_10.3 P180 BE180M4	370
181	915	1.0	9.7	8729			A502_9.7 P180 BE180M4	350
209	795	2.1	8.5	20279			A552_8.5 P180 BE180M4	360
224	739	2.5	7.9	25863			A602_7.9 P180 BE180M4	370
228	727	1.2	7.7	8482			A502_7.7 P180 BE180M4	350
275	603	2.6	6.4	18890			A552_6.4 P180 BE180M4	360

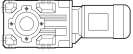

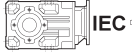




## 22 kW

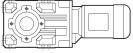

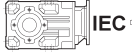


n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			
15.1	12660	1.1	116.9	69675		A903_116.9 P180 BE180L4	396
16.6	11568	1.2	106.8	69675		A903_106.8 P180 BE180L4	396
18.0	10678	1.3	98.6	69675		A903_98.6 P180 BE180L4	396
20.3	9429	1.5	87.1	69675		A903_87.1 P180 BE180L4	396
22.0	8703	1.6	80.4	69675		A903_80.4 P180 BE180L4	396
23.8	8065	1.7	74.5	69675		A903_74.5 P180 BE180L4	396
24.5	7837	0.9	72.4	47792		A803_72.4 P180 BE180L4	388
25.7	7445	1.8	68.8	69675		A903_68.8 P180 BE180L4	396
26.5	7234	1.0	66.8	48163		A803_66.8 P180 BE180L4	388
29.6	6474	1.1	59.8	48070		A803_59.8 P180 BE180L4	388
29.7	6456	2.1	59.6	68560		A903_59.6 P180 BE180L4	396
32	5976	1.2	55.2	47699		A803_55.2 P180 BE180L4	388
32	5959	2.2	55.0	67538		A903_55.0 P180 BE180L4	396
37	5230	2.5	48.3	66052		A903_48.3 P180 BE180L4	396
37	5218	1.4	48.2	47235		A803_48.2 P180 BE180L4	388
39	4898	0.9	45.2	42179		A703_45.2 P180 BE180L4	380
40	4828	2.7	44.6	65030		A903_44.6 P180 BE180L4	396
40	4816	1.4	44.5	46678		A803_44.5 P180 BE180L4	388
46	4169	1.7	38.5	45936		A803_38.5 P180 BE180L4	388
46	4157	1.1	38.4	42642		A703_38.4 P180 BE180L4	380
50	3848	1.7	35.5	45379		A803_35.5 P180 BE180L4	388
50	3837	1.1	35.4	42179		A703_35.4 P180 BE180L4	380
58	3311	1.8	30.6	44358		A803_30.6 P180 BE180L4	388
59	3260	1.3	30.1	41252		A703_30.1 P180 BE180L4	380
63	3056	2.0	28.2	43709		A803_28.2 P180 BE180L4	388
64	3016	0.9	27.9	27810		A603_27.9 P180 BE180L4	370
64	3009	1.3	27.8	40695		A703_27.8 P180 BE180L4	380
69	2784	1.0	25.7	27810		A603_25.7 P180 BE180L4	370
72	2653	2.4	24.5	42595		A803_24.5 P180 BE180L4	388
75	2547	1.6	23.5	39583		A703_23.5 P180 BE180L4	380
78	2449	2.4	22.6	41946		A803_22.6 P180 BE180L4	388
83	2307	1.6	21.3	38841		A703_21.3 P180 BE180L4	380
84	2269	2.7	20.9	41389		A803_20.9 P180 BE180L4	388
90	2130	1.6	19.7	38192		A703_19.7 P180 BE180L4	380
92	2094	2.7	19.3	40646		A803_19.3 P180 BE180L4	388
106	1872	1.0	16.7	27810		A602_16.7 P180 BE180L4	370
106	1807	2.1	16.7	36987		A703_16.7 P180 BE180L4	380
113	1754	1.0	15.7	23243		A552_15.7 P180 BE180L4	360
115	1668	2.1	15.4	36338		A703_15.4 P180 BE180L4	380
135	1417	2.5	13.1	35133		A703_13.1 P180 BE180L4	380
135	1463	1.1	13.1	21761		A552_13.1 P180 BE180L4	360
139	1421	1.3	12.7	27810		A602_12.7 P180 BE180L4	370
147	1308	2.5	12.1	34484		A703_12.1 P180 BE180L4	380
171	1158	1.4	10.4	20742		A552_10.4 P180 BE180L4	360
172	1154	1.6	10.3	27161		A602_10.3 P180 BE180L4	370
173	1107	2.7	10.2	33187		A703_10.2 P180 BE180L4	380
188	1022	2.7	9.4	32538		A703_9.4 P180 BE180L4	380
209	947	1.8	8.5	19816		A552_8.5 P180 BE180L4	360
225	880	2.1	7.9	25493		A602_7.9 P180 BE180L4	370
229	865	1.0	7.7	8024		A502_7.7 P180 BE180L4	350
276	717	2.2	6.4	18613		A552_6.4 P180 BE180L4	360
358	553	2.7	4.9	17501		A552_4.9 P180 BE180L4	360



## 30 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
17.8	14536	1.0	98.6	63358			A903_98.6 P200 IEC200L4	396
20.2	12836	1.1	87.1	65123			A903_87.1 P200 IEC200L4	396
21.9	11848	1.2	80.4	65030			A903_80.4 P200 IEC200L4	396
23.6	10980	1.3	74.5	64751			A903_74.5 P200 IEC200L4	396
25.6	10135	1.3	68.8	64287			A903_68.8 P200 IEC200L4	396
29.5	8789	1.5	59.6	63637			A903_59.6 P200 IEC200L4	396
32	8113	1.6	55.0	62986			A903_55.0 P200 IEC200L4	396
36	7120	1.8	48.3	62150			A903_48.3 P200 IEC200L4	396
37	7103	1.0	48.2	42410			A803_48.2 P200 IEC200L4	388
39	6573	2.0	44.6	61314			A903_44.6 P200 IEC200L4	396
40	6557	1.1	44.5	42224			A803_44.5 P200 IEC200L4	388
45	5721	2.3	38.8	60106			A903_38.8 P200 IEC200L4	396
46	5676	1.2	38.5	42038			A803_38.5 P200 IEC200L4	388
49	5281	2.4	35.8	59270			A903_35.8 P200 IEC200L4	396
50	5239	1.2	35.5	41760			A803_35.5 P200 IEC200L4	388
56	4644	2.8	31.5	57970			A903_31.5 P200 IEC200L4	396
58	4508	1.3	30.6	41296			A803_30.6 P200 IEC200L4	388
58	4437	1.0	30.1	37822			A703_30.1 P200 IEC200L4	380
61	4287	2.8	29.1	57041			A903_29.1 P200 IEC200L4	396
62	4161	1.5	28.2	40832			A803_28.2 P200 IEC200L4	388
63	4096	1.0	27.8	37312			A703_27.8 P200 IEC200L4	380
72	3612	1.7	24.5	40182			A803_24.5 P200 IEC200L4	388
75	3467	1.1	23.5	37173			A703_23.5 P200 IEC200L4	380
78	3334	1.7	22.6	39626			A803_22.6 P200 IEC200L4	388
84	3088	2.0	20.9	39254			A803_20.9 P200 IEC200L4	388
91	2851	2.0	19.3	38698			A803_19.3 P200 IEC200L4	388
105	2468	2.5	16.7	37770			A803_16.7 P200 IEC200L4	388
105	2460	1.5	16.7	35319			A703_16.7 P200 IEC200L4	380
114	2278	2.5	15.5	37120			A803_15.5 P200 IEC200L4	388
114	2271	1.5	15.4	34763			A703_15.4 P200 IEC200L4	380
134	1929	1.8	13.1	33743			A703_13.1 P200 IEC200L4	380
146	1781	1.8	12.1	33187			A703_12.1 P200 IEC200L4	380
172	1508	2.0	10.2	32074			A703_10.2 P200 IEC200L4	380
186	1392	2.0	9.4	31518			A703_9.4 P200 IEC200L4	380

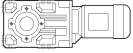



## 37 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			 IEC 	
22.0	14591	1.0	80.4	62243			A903_80.4 P225 IEC225S4	396
23.7	13521	1.0	74.5	58899			A903_74.5 P225 IEC225S4	396
25.7	12481	1.1	68.8	59363			A903_68.8 P225 IEC225S4	396
29.6	10823	1.3	59.6	59363			A903_59.6 P225 IEC225S4	396
32	9991	1.3	55.0	59084			A903_55.0 P225 IEC225S4	396
37	8769	1.5	48.3	58620			A903_48.3 P225 IEC225S4	396
40	8094	1.6	44.6	58063			A903_44.6 P225 IEC225S4	396
45	7045	1.8	38.8	57319			A903_38.8 P225 IEC225S4	396
46	6989	1.0	38.5	38698			A803_38.5 P225 IEC225S4	388
49	6503	2.0	35.8	56669			A903_35.8 P225 IEC225S4	396
50	6452	1.0	35.5	38605			A803_35.5 P225 IEC225S4	388
56	5719	2.3	31.5	55647			A903_31.5 P225 IEC225S4	396
58	5551	1.1	30.6	38605			A803_30.6 P225 IEC225S4	388
61	5279	2.3	29.1	54904			A903_29.1 P225 IEC225S4	396
63	5124	1.2	28.2	38326			A803_28.2 P225 IEC225S4	388
72	4448	1.4	24.5	37955			A803_24.5 P225 IEC225S4	388
73	4377	2.8	24.1	53232			A903_24.1 P225 IEC225S4	396
78	4106	1.4	22.6	37584			A803_22.6 P225 IEC225S4	388
79	4040	2.8	22.3	52396			A903_22.3 P225 IEC225S4	396

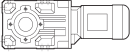



As informações técnicas devem ser considerados como indicativas, as configurações devem ser combinando os dados fornecidos pelos fabricantes de motores de potências nominais superiores a 22 kW.



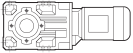



### 37 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
84	3803	1.6	20.9	37398			A803_20.9 P225 IEC225S4	388
91	3511	1.6	19.3	36934			A803_19.3 P225 IEC225S4	388
105	3039	2.0	16.7	64125			A803_16.7 P225 IEC225S4	388
114	2805	2.0	15.5	35728			A803_15.5 P225 IEC225S4	388
133	2413	2.5	13.3	34893			A803_13.3 P225 IEC225S4	388
144	2228	2.5	12.3	34336			A803_12.3 P225 IEC225S4	388

### 45 kW

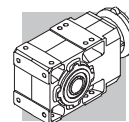
n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
30	13129	1.0	59.6	55368			A903_59.6 P225 IEC225M4	396
32	12119	1.1	55.0	54718			A903_55.0 P225 IEC225M4	396
37	10637	1.2	48.3	52767			A903_48.3 P225 IEC225M4	396
40	9818	1.3	44.6	52024			A903_44.6 P225 IEC225M4	396
46	8546	1.5	38.8	53882			A903_38.8 P225 IEC225M4	396
49	7889	1.6	35.8	54347			A903_35.8 P225 IEC225M4	396
56	6937	1.9	31.5	51095			A903_31.5 P225 IEC225M4	396
61	6403	1.9	29.1	51095			A903_29.1 P225 IEC225M4	396
63	6215	1.0	28.2	35914			A803_28.2 P225 IEC225M4	388
72	5395	1.2	24.5	33594			A803_24.5 P225 IEC225M4	388
73	5309	2.3	24.1	48773			A903_24.1 P225 IEC225M4	396
78	4980	1.2	22.6	33408			A803_22.6 P225 IEC225M4	388
80	4901	2.3	22.3	48865			A903_22.3 P225 IEC225M4	396
84	4625	2.5	21.0	49237			A903_21.0 P225 IEC225M4	396
84	4613	1.3	20.9	36099			A803_20.9 P225 IEC225M4	388
91	4269	2.5	19.4	49051			A903_19.4 P225 IEC225M4	396
92	4259	1.3	19.3	35728			A803_19.3 P225 IEC225M4	388
105	3716	3.0	16.9	48308			A903_16.9 P225 IEC225M4	396
106	3686	1.6	16.7	34614			A803_16.7 P225 IEC225M4	388
114	3430	3.0	15.6	47472			A903_15.6 P225 IEC225M4	396
115	3403	1.6	15.5	34243			A803_15.5 P225 IEC225M4	388
133	2928	2.1	13.3	33594			A803_13.3 P225 IEC225M4	388
144	2702	2.1	12.3	33130			A803_12.3 P225 IEC225M4	388
166	2346	2.6	10.7	32387			A803_10.7 P225 IEC225M4	388
180	2165	2.6	9.8	31923			A803_9.8 P225 IEC225M4	388

### 55 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
37	12966	1.0	48.3	49051			A903_48.3 P250 IEC250M4	396
40	11969	1.1	44.6	50073			A903_44.6 P250 IEC250M4	396
46	10418	1.2	38.8	50259			A903_38.8 P250 IEC250M4	396
49	9617	1.3	35.8	50166			A903_35.8 P250 IEC250M4	396
56	8456	1.5	31.5	49980			A903_31.5 P250 IEC250M4	396
61	7806	1.5	29.1	49609			A903_29.1 P250 IEC250M4	396
73	6472	1.9	24.1	48865			A903_24.1 P250 IEC250M4	396
80	5974	1.9	22.3	48308			A903_22.3 P250 IEC250M4	396
84	5637	2.0	21.0	48029			A903_21.0 P250 IEC250M4	396
91	5204	2.1	19.4	47472			A903_19.4 P250 IEC250M4	396
105	4530	2.4	16.9	46543			A903_16.9 P250 IEC250M4	396
114	4181	2.4	15.6	45893			A903_15.6 P250 IEC250M4	396
129	3677	2.8	13.7	44964			A903_13.7 P250 IEC250M4	396
140	3394	2.9	12.6	44220			A903_12.6 P250 IEC250M4	396

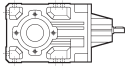

As informações técnicas devem ser considerados como indicativas, as configurações devem ser combinando os dados fornecidos pelos fabricantes de motores de potências nominais superiores a 22 kW.





## 40 TABELAS DE CLASSIFICAÇÃO DE REDUTORES

### A 10 150 Nm

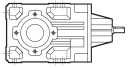

	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
A 10 2_5.5	5.5	327	73	2.7	—	2224	218	73	1.8	1012	2613	306
A 10 2_6.3	6.3	286	80	2.5	—	2314	190	80	1.7	875	2719	
A 10 2_7.2	7.2	250	92	2.6	—	2350	167	93	1.7	664	2761	
A 10 2_8.5	8.5	212	92	2.2	—	2522	141	95	1.5	759	2963	
A 10 2_9.6	9.6	188	118	2.5	—	2396	125	128	1.8	—	2814	
A 10 2_10.6	10.6	170	139	2.6	737	2341	113	150	1.9	854	2751	
A 10 2_12.3	12.3	146	128	2.1	—	2604	98	144	1.6	—	3059	
A 10 2_13.9	13.9	129	139	2.0	983	2676	86	150	1.4	1138	3144	
A 10 2_16.4	16.4	110	140	1.7	1037	2893	73	150	1.2	1202	3398	
A 10 2_18.6	18.6	97	147	1.6	1074	3056	65	150	1.1	1244	3590	
A 10 2_21.4	21.4	84	150	1.4	1092	3254	56	150	0.94	1265	3823	
A 10 2_23.8	23.8	76	150	1.3	1110	3417	50	150	0.84	1286	4014	
A 10 2_25.5	25.5	71	150	1.2	1110	3526	47	150	0.79	1286	4142	
A 10 2_28.6	28.6	63	150	1.1	1138	3706	42	150	0.70	1300	4354	
A 10 2_32.2	32.2	56	150	0.93	1156	3896	37	150	0.62	1300	4577	
A 10 2_35.1	35.1	51	150	0.86	1156	4041	34	150	0.57	1300	4747	
A 10 2_40.9	40.9	44	150	0.74	1183	4312	29	150	0.49	1300	5066	
A 10 2_45.4	45.4	40	150	0.66	1183	4502	26.4	150	0.44	1300	5289	
A 10 2_51.3	51.3	35	150	0.59	1174	4737	23.4	150	0.39	1300	5500	
A 10 2_58.6	58.6	31	150	0.51	1183	4972	20.5	150	0.34	1300	5500	
A 10 2_65.9	65.9	27.3	150	0.46	1183	4972	18.2	150	0.30	1300	5500	
A 10 2_76.4	76.4	23.6	150	0.39	1183	4972	15.7	150	0.26	1300	5500	
A 10 2_91.6	91.6	19.7	130	0.28	1183	5160	13.1	130	0.19	1300	5500	

(—) Entre em contato com o nosso departamento de assistência técnica e informe os dados da carga radial (sentido de rotação, orientação e posição)

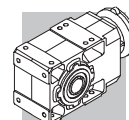


# A 20

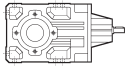

# 250 Nm

	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
A 20 2_5.4	5.4	333	112	4.2	699	2198	222	127	3.1	810	2530	316
A 20 2_6.5	6.5	277	125	3.9	554	2317	185	142	2.9	642	2667	
A 20 2_7.3	7.3	247	133	3.6	572	2382	164	150	2.7	663	2740	
A 20 2_8.4	8.4	214	135	3.2	590	2519	143	153	2.4	684	2899	
A 20 2_9.4	9.4	191	143	3.0	599	2601	128	162	2.3	694	2993	
A 20 2_10.3	10.3	175	209	4.1	808	2308	117	236	3.1	936	2656	
A 20 2_12.0	12.0	150	149	2.5	627	2858	100	169	1.9	726	2990	
A 20 2_14.1	14.1	128	227	3.2	872	2583	85	250	2.4	1010	2972	
A 20 2_16.2	16.2	111	232	2.9	944	2739	74	250	2.1	1094	3151	
A 20 2_18.1	18.1	99	232	2.6	1099	2904	66	250	1.8	1273	3341	
A 20 2_21.2	21.2	85	232	2.2	1171	3142	57	250	1.6	1357	3615	
A 20 2_23.1	23.1	78	232	2.0	1235	3279	52	250	1.4	1431	3773	
A 20 2_26.5	26.5	68	241	1.8	1280	3499	45	250	1.3	1483	4026	
A 20 2_29.2	29.2	62	249	1.7	1371	3664	41	250	1.1	1589	4216	
A 20 2_31.3	31.3	58	250	1.6	1371	3783	38	250	1.1	1589	4353	
A 20 2_35.4	35.4	51	250	1.4	1498	4012	34	250	0.94	1736	4617	
A 20 2_39.6	39.6	45	250	1.3	1553	4214	30	250	0.84	1799	4848	
A 20 2_43.2	43.2	42	250	1.2	1553	4388	27.8	250	0.77	1799	5049	
A 20 2_48.3	48.3	37	250	1.0	1562	4607	24.8	250	0.69	1809	5302	
A 20 2_53.7	53.7	34	250	0.93	1562	4827	22.3	250	0.62	1809	5555	
A 20 2_63.1	63.1	28.5	227	0.72	1580	5203	19.0	245	0.52	1830	5987	
A 20 2_71.0	71.0	25.4	195	0.55	1625	5679	16.9	210	0.40	1883	6200	
A 20 2_79.9	79.9	22.5	195	0.49	1625	5679	15.0	210	0.35	1883	6200	
A 20 2_92.3	92.3	19.5	186	0.40	1643	5679	13.0	200	0.29	1904	6200	
A 20 3_109.2	109.2	16.5	190	0.36	1180	5900	11.0	215	0.27	1300	6200	
A 20 3_120.5	120.5	14.9	195	0.34	1180	6110	10.0	220	0.25	1300	6200	
A 20 3_129.1	129.1	13.9	200	0.32	1210	6200	9.3	226	0.24	1300	6200	
A 20 3_146.1	146.1	12.3	213	0.30	1180	6200	8.2	241	0.23	1300	6200	
A 20 3_163.4	163.4	11.0	218	0.28	1240	6200	7.3	247	0.21	1300	6200	
A 20 3_178.3	178.3	10.1	227	0.26	1200	6200	6.7	250	0.19	1300	6200	
A 20 3_199.2	199.2	9.0	232	0.24	1270	6200	6.0	250	0.17	1300	6200	
A 20 3_221.3	221.3	8.1	232	0.22	1240	6200	5.4	250	0.16	1300	6200	
A 20 3_260.5	260.5	6.9	232	0.18	1270	6200	4.6	250	0.13	1300	6200	
A 20 3_292.8	292.8	6.1	232	0.16	1300	6200	4.1	250	0.12	1300	6200	
A 20 3_329.4	329.4	5.5	232	0.15	1300	6200	3.6	250	0.10	1300	6200	
A 20 3_380.9	380.9	4.7	232	0.13	1300	6200	3.2	250	0.09	1300	6200	





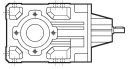

# A 30 410 Nm

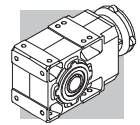
	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
A 30 2_5.4	5.4	333	204	7.6	1298	2867	222	231	5.7	1504	3299	326
A 30 2_6.4	6.4	281	213	6.7	1335	3050	188	241	5.0	1546	3510	
A 30 2_7.0	7.0	257	227	6.5	1298	3096	171	257	4.9	1504	3563	
A 30 2_8.5	8.5	212	232	5.5	1426	3353	141	262	4.1	1652	3858	
A 30 2_9.3	9.3	194	250	5.4	1308	3398	129	283	4.1	1515	3910	
A 30 2_10.5	10.5	171	315	6.0	1998	3252	114	356	4.5	2200	3742	
A 30 2_11.8	11.8	153	269	4.6	1289	3691	102	304	3.4	1494	4248	
A 30 2_13.6	13.6	132	343	5.1	1998	3545	88	388	3.8	2200	4079	
A 30 2_16.3	16.3	110	357	4.4	1998	3820	74	403	3.3	2200	4395	
A 30 2_18.0	18.0	100	371	4.1	1998	3930	67	410	3.0	2200	4522	
A 30 2_20.5	20.5	88	380	3.7	1998	4149	59	410	2.7	2200	4775	
A 30 2_22.8	22.8	79	380	3.3	1998	4369	53	410	2.4	2200	5028	
A 30 2_26.5	26.5	68	380	2.9	1998	4717	45	410	2.1	2200	5428	
A 30 2_29.3	29.3	61	380	2.6	1998	4946	41	410	1.9	2200	5692	
A 30 2_33.4	33.4	54	393	2.4	1998	5267	36	410	1.6	2200	6061	
A 30 2_36.6	36.6	49	404	2.2	1998	5505	33	410	1.5	2200	6335	
A 30 2_39.3	39.3	46	410	2.1	1998	5679	31	410	1.4	2200	6535	
A 30 2_43.4	43.4	41	410	1.9	1998	5945	27.6	410	1.3	2200	6840	
A 30 2_48.3	48.3	37	410	1.7	1998	6238	24.8	410	1.1	2200	7178	
A 30 2_52.7	52.7	34	410	1.6	1998	6485	22.8	410	1.0	2200	7462	
A 30 2_59.4	59.4	30	400	1.4	1998	6897	20.2	400	0.90	2200	7937	
A 30 2_66.0	66.0	27.3	390	1.2	1998	7273	18.2	390	0.79	2200	8369	
A 30 2_76.5	76.5	23.5	350	0.92	1998	7960	15.7	350	0.61	2200	9159	
A 30 2_86.7	86.7	20.8	320	0.74	1998	8528	13.8	320	0.49	2200	9600	
A 30 2_97.5	97.5	18.5	300	0.62	1998	8794	12.3	300	0.41	2200	9600	
A 30 3_109.1	109.1	16.5	278	0.53	1300	8794	11.0	314	0.40	1300	9600	
A 30 3_120.5	120.5	14.9	278	0.48	1180	8794	10.0	314	0.36	1300	9600	
A 30 3_137.4	137.4	13.1	292	0.44	1300	8950	8.7	330	0.33	1300	9600	
A 30 3_150.7	150.7	11.9	306	0.42	1180	9210	8.0	346	0.32	1300	9600	
A 30 3_161.4	161.4	11.2	315	0.40	1300	9410	7.4	356	0.30	1300	9600	
A 30 3_178.5	178.5	10.1	320	0.37	1210	9600	6.7	362	0.28	1300	9600	
A 30 3_198.5	198.5	9.1	324	0.34	1300	9600	6.0	367	0.26	1300	9600	
A 30 3_216.6	216.6	8.3	334	0.32	1240	9600	5.5	377	0.24	1300	9600	
A 30 3_244.3	244.3	7.4	343	0.29	1300	9600	4.9	388	0.22	1300	9600	
A 30 3_271.5	271.5	6.6	352	0.27	1280	9600	4.4	398	0.20	1300	9600	
A 30 3_314.5	314.5	5.7	362	0.24	1300	9600	3.8	409	0.18	1300	9600	
A 30 3_356.3	356.3	5.1	343	0.20	1300	9600	3.4	380	0.15	1300	9600	
A 30 3_400.8	400.8	4.5	334	0.17	1300	9600	3.0	360	0.12	1300	9600	



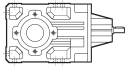

# A 35

# 600 Nm

	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
A 35 2_5.4	5.4	333	287	10.7	1561	4676	222	325	8.0	1888	5287	336
A 35 2_6.4	6.4	281	306	9.6	1561	4936	188	346	7.2	1888	5581	
A 35 2_7.0	7.0	257	324	9.3	1561	5037	171	367	7.0	1888	5696	
A 35 2_8.5	8.5	212	334	7.9	1596	5417	141	377	5.9	1931	6125	
A 35 2_9.3	9.3	194	352	7.6	1596	5556	129	398	5.7	1931	6282	
A 35 2_10.6	10.6	170	362	6.8	1596	5843	113	400	5.0	1931	6607	
A 35 2_11.8	11.8	153	371	6.3	1622	6065	102	400	4.5	1962	6858	
A 35 2_13.1	13.1	137	510	7.8	1831	5352	92	576	5.9	2200	6052	
A 35 2_15.5	15.5	116	528	6.8	1849	5732	77	597	5.2	2090	6481	
A 35 2_17.0	17.0	106	556	6.6	1857	5843	71	600	4.7	2200	6607	
A 35 2_20.4	20.4	88	556	5.5	1892	6417	59	600	3.9	2200	7256	
A 35 2_22.5	22.5	80	556	5.0	1918	6723	53	600	3.6	2200	7601	
A 35 2_25.7	25.7	70	585	4.6	1918	7167	47	600	3.1	2200	8104	
A 35 2_28.4	28.4	63	600	4.2	1918	7528	42	600	2.8	2200	8512	
A 35 2_33.2	33.2	54	600	3.6	1918	8084	36	600	2.4	2200	9140	
A 35 2_36.6	36.6	49	600	3.3	1918	8464	33	600	2.2	2200	9570	
A 35 2_41.8	41.8	43	600	2.9	1918	8982	28.7	600	1.9	2200	10156	
A 35 2_45.8	45.8	39	600	2.6	1918	9353	26.2	600	1.8	2200	10575	
A 35 2_49.1	49.1	37	600	2.5	1918	9630	24.4	600	1.6	2200	10889	
A 35 2_54.3	54.3	33	600	2.2	1918	10093	22.1	600	1.5	2200	11412	
A 35 2_60.4	60.4	29.8	600	2.0	1918	10556	19.9	600	1.3	2200	11936	
A 35 2_65.8	65.8	27.4	600	1.8	1918	10927	18.2	600	1.2	2200	12000	
A 35 2_74.3	74.3	24.2	600	1.6	1918	11112	16.2	600	1.1	2200	12000	
A 35 2_82.5	82.5	21.8	600	1.5	1918	11112	14.5	600	0.97	2200	12000	
A 35 2_95.6	95.6	18.8	540	1.1	1918	11112	12.6	540	0.76	2200	12000	
A 35 3_105.5	105.5	17.1	487	0.96	680	12000	11.4	550	0.72	823	12000	
A 35 3_116.9	116.9	15.4	519	0.92	759	12000	10.3	587	0.69	918	12000	
A 35 3_136.3	136.3	13.2	533	0.81	968	12000	8.8	600	0.61	1171	12000	
A 35 3_150.6	150.6	12.0	556	0.77	1012	12000	8.0	600	0.55	1224	12000	
A 35 3_171.8	171.8	10.5	556	0.67	1090	12000	7.0	600	0.48	1300	12000	
A 35 3_188.3	188.3	9.6	556	0.61	1134	12000	6.4	600	0.44	1300	12000	
A 35 3_201.8	201.8	8.9	556	0.57	1134	12000	5.9	600	0.41	1300	12000	
A 35 3_223.2	223.2	8.1	556	0.52	1134	12000	5.4	600	0.37	1300	12000	
A 35 3_248.1	248.1	7.3	565	0.47	1134	12000	4.8	600	0.33	1300	12000	
A 35 3_270.7	270.7	6.6	570	0.44	1134	12000	4.4	600	0.31	1300	12000	
A 35 3_305.4	305.4	5.9	585	0.40	1140	12000	3.9	600	0.27	1300	12000	
A 35 3_339.3	339.3	5.3	482	0.29	1210	12000	3.5	520	0.21	1300	12000	
A 35 3_393.2	393.2	4.6	431	0.23	1260	12000	3.1	465	0.16	1300	12000	

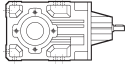



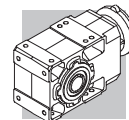
# A 41 850 Nm

	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
A 41 2_5.2	5.2	346	510	19.7	2225	5099	231	550	14.1	2575	5860	346
A 41 2_7.1	7.1	254	510	14.4	2424	5896	169	550	10.4	2806	6777	
A 41 2_8.3	8.3	217	510	12.3	2497	6346	145	550	8.9	2890	7294	
A 41 2_9.2	9.2	196	530	11.6	2597	6639	130	550	8.0	3006	7631	
A 41 2_10.1	10.1	178	496	9.8	3078	7015	119	560	7.4	3500	8063	
A 41 2_11.7	11.7	154	550	9.4	2679	7400	103	550	6.3	3100	8506	
A 41 2_13.8	13.8	130	542	7.9	3114	7804	87	612	5.9	3500	8970	
A 41 2_16.1	16.1	112	565	7.0	3114	8253	75	639	5.3	3500	9486	
A 41 2_17.8	17.8	101	584	6.6	3151	8528	67	660	5.0	3500	9802	
A 41 2_22.7	22.7	79	630	5.6	3142	9262	53	712	4.2	3500	10645	
A 41 2_28.3	28.3	64	677	4.8	3133	9995	42	764	3.6	3500	11489	
A 41 2_35.9	35.9	50	723	4.0	3096	10821	33	817	3.0	3500	12437	
A 41 2_45.1	45.1	40	769	3.4	3024	11738	26.6	850	2.5	3500	13491	
A 41 2_48.3	48.3	37	788	3.3	2906	12013	24.8	850	2.4	3363	13807	
A 41 2_53.1	53.1	34	788	3.0	3024	12563	22.6	850	2.1	3500	14440	
A 41 2_58.8	58.8	31	788	2.7	3142	13113	20.4	850	1.9	3500	15000	
A 41 2_64.2	64.2	28.0	788	2.5	3142	13572	18.7	850	1.8	3500	15000	
A 41 2_71.3	71.3	25.2	788	2.2	3151	13755	16.8	850	1.6	3500	15000	
A 41 2_79.2	79.2	22.7	742	1.9	3178	13755	15.2	800	1.4	3500	15000	
A 41 3_92.8	92.8	19.4	742	1.7	390	14000	12.9	800	1.2	452	15000	
A 41 3_115.9	115.9	15.5	800	1.4	890	14600	10.4	850	1.0	1030	15000	
A 41 3_146.9	146.9	12.3	850	1.2	1489	15000	8.2	850	0.80	1724	15000	
A 41 3_184.4	184.4	9.8	850	0.95	1607	15000	6.5	850	0.64	1860	15000	
A 41 3_197.5	197.5	9.1	850	0.89	1625	15000	6.1	850	0.59	1881	15000	
A 41 3_217.4	217.4	8.3	850	0.81	1653	15000	5.5	850	0.54	1913	15000	
A 41 3_240.6	240.6	7.5	850	0.73	1671	15000	5.0	850	0.49	1934	15000	
A 41 3_262.5	262.5	6.9	850	0.67	1689	15000	4.6	850	0.45	1955	15000	
A 41 3_291.7	291.7	6.2	850	0.60	1707	15000	4.1	850	0.40	1976	15000	
A 41 3_324.2	324.2	5.6	850	0.54	1725	15000	3.7	850	0.36	1997	15000	
A 41 3_376.8	376.8	4.8	850	0.47	1752	15000	3.2	850	0.31	2028	15000	



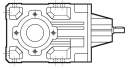

# A 50 1500 Nm

	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
<b>A 50 2_7.7</b>	7.7	234	649	16.9	2624	9123	156	733	12.7	3040	10498	356
<b>A 50 2_9.7</b>	9.7	186	695	14.4	2679	9893	124	785	10.8	3103	11383	
<b>A 50 2_13.1</b>	13.1	137	695	10.6	2824	11084	92	785	8.0	3272	12753	
<b>A 50 2_16.6</b>	16.6	108	742	9.0	2860	12000	72	838	6.7	3314	13807	
<b>A 50 2_20.9</b>	20.9	86	742	7.1	2915	13190	57	838	5.4	3377	15178	
<b>A 50 3_24.0</b>	24.0	75	1391	12.0	1907	7823	50	1500	8.6	2209	9001	
<b>A 50 3_26.4</b>	26.4	68	1391	10.9	2443	8336	45	1500	7.8	2830	9591	
<b>A 50 3_32.4</b>	32.4	56	1391	8.9	2506	9526	37	1500	6.4	2904	10962	
<b>A 50 3_35.6</b>	35.6	51	1391	8.1	2987	10076	34	1500	5.8	3461	11594	
<b>A 50 3_40.9</b>	40.9	44	1415	7.2	2924	10900	29.3	1500	5.1	3387	12543	
<b>A 50 3_45.0</b>	45.0	40	1470	6.8	3124	11542	26.7	1500	4.6	3500	13280	
<b>A 50 3_51.7</b>	51.7	35	1500	6.0	3087	12458	23.2	1500	4.0	3450	14334	
<b>A 50 3_56.8</b>	56.8	32	1500	5.5	3160	13190	21.1	1500	3.6	3500	15178	
<b>A 50 3_63.9</b>	63.9	28.2	1500	4.9	3133	14015	18.8	1500	3.2	3500	16126	
<b>A 50 3_70.2</b>	70.2	25.6	1500	4.4	3178	14748	17.1	1500	3.0	3500	16969	
<b>A 50 3_81.5</b>	81.5	22.1	1500	3.8	3178	15847	14.7	1500	2.5	3500	18234	
<b>A 50 3_89.5</b>	89.5	20.1	1500	3.5	3178	16671	13.4	1500	2.3	3500	19183	
<b>A 50 3_99.5</b>	99.5	18.1	1500	3.1	3178	17587	12.1	1500	2.1	3500	20000	
<b>A 50 3_109.4</b>	109.4	16.5	1500	2.8	3178	18320	11.0	1500	1.9	3500	20000	
<b>A 50 3_118.0</b>	118.0	15.3	1500	2.6	3178	18320	10.2	1500	1.8	3500	20000	
<b>A 50 3_129.7</b>	129.7	13.9	1500	2.4	3178	18320	9.3	1500	1.6	3500	20000	
<b>A 50 3_140.6</b>	140.6	12.8	1500	2.2	3178	18320	8.5	1500	1.5	3500	20000	
<b>A 50 3_154.6</b>	154.6	11.6	1500	2.0	3178	18320	7.8	1500	1.3	3500	20000	
<b>A 50 3_173.4</b>	173.4	10.4	1500	1.8	3178	18320	6.9	1500	1.2	3500	20000	
<b>A 50 3_190.6</b>	190.6	9.4	1500	1.6	3178	18800	6.3	1500	1.1	3500	20000	
<b>A 50 4_211.0</b>	211.0	8.5	1500	1.5	1998	20000	5.7	1500	1.0	2200	20000	
<b>A 50 4_232.0</b>	232.0	7.8	1500	1.4	1998	20000	5.2	1500	0.91	2200	20000	
<b>A 50 4_260.9</b>	260.9	6.9	1500	1.2	2010	20000	4.6	1500	0.81	2200	20000	
<b>A 50 4_286.8</b>	286.8	6.3	1500	1.1	2040	20000	4.2	1500	0.74	2200	20000	
<b>A 50 4_332.6</b>	332.6	5.4	1500	0.96	2080	20000	3.6	1500	0.64	2200	20000	
<b>A 50 4_365.6</b>	365.6	4.9	1500	0.87	2100	20000	3.3	1500	0.58	2200	20000	
<b>A 50 4_406.4</b>	406.4	4.4	1500	0.78	2130	20000	3.0	1500	0.52	2200	20000	
<b>A 50 4_446.8</b>	446.8	4.0	1500	0.71	2140	20000	2.7	1500	0.47	2200	20000	
<b>A 50 4_481.6</b>	481.6	3.7	1500	0.66	2160	20000	2.5	1500	0.44	2200	20000	
<b>A 50 4_529.5</b>	529.5	3.4	1500	0.60	2170	20000	2.3	1500	0.40	2200	20000	
<b>A 50 4_574.2</b>	574.2	3.1	1500	0.55	2190	20000	2.1	1500	0.37	2200	20000	
<b>A 50 4_631.2</b>	631.2	2.9	1500	0.50	2200	20000	1.9	1500	0.34	2200	20000	
<b>A 50 4_707.9</b>	707.9	2.5	1500	0.45	2200	20000	1.7	1500	0.30	2200	20000	
<b>A 50 4_778.2</b>	778.2	2.3	1500	0.41	2200	20000	1.5	1500	0.27	2200	20000	



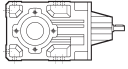

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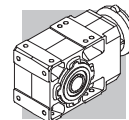
# 2000 Nm

	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
A 55 2_4.9	4.9	367	834	34	1875	17316	245	942	27	2268	19579	366
A 55 2_6.4	6.4	281	881	28	2494	18798	188	995	21	3017	21254	
A 55 2_8.5	8.5	212	881	21	3052	20557	141	995	16,2	3500	23243	
A 55 2_10.4	10.4	173	927	17,9	3052	21854	115	1047	13,9	3500	24709	
A 55 2_13.1	13.1	137	927	14,2	3230	23613	92	1047	11,0	3500	26699	
A 55 2_15.7	15.7	115	927	11,8	3440	25002	76	1047	9,2	3500	28269	
A 55 2_19.2	19.2	94	1020	10,7	3160	26484	63	1152	8,3	3500	29944	
A 55 3_23.8	23.8	76	1808	15,7	2302	24076	50	2000	11,6	2785	27222	
A 55 3_29.9	29.9	60	1854	12,8	2415	26113	40	2000	9,2	2922	29525	
A 55 3_40.3	40.3	45	1854	9,5	2555	27780	29,8	2000	6,9	3091	30000	
A 55 3_51.0	51.0	35	2000	8,1	2660	27780	23,5	2000	5,4	3218	30000	
A 55 3_64.3	64.3	28,0	2000	6,4	2712	29000	18,7	2000	4,3	3281	30000	
A 55 3_79.5	79.5	22,6	2000	5,2	2459	30000	15,1	2000	3,5	2975	30000	
A 55 3_101.4	101.4	17,8	2000	4,1	2729	30000	11,8	2000	2,7	3302	30000	
A 55 3_123.9	123.9	14,5	2000	3,3	2817	30000	9,7	2000	2,2	3408	30000	
A 55 3_132.7	132.7	13,6	2000	3,1	2825	30000	9,0	2000	2,1	3418	30000	
A 55 3_146.8	146.8	12,3	2000	2,8	2869	30000	8,2	2000	1,9	3471	30000	
A 55 3_160.4	160.4	11,2	2000	2,6	2878	30000	7,5	2000	1,7	3482	30000	
A 55 3_175.0	175.0	10,3	2000	2,4	2878	30000	6,9	2000	1,6	3482	30000	
A 55 3_194.2	194.2	9,3	2000	2,1	2886	30000	6,2	2000	1,4	3492	30000	
A 55 4_208.1	208.1	8,6	1808	1,8	1918	30000	5,8	2000	1,4	2200	30000	
A 55 4_262.6	262.6	6,9	1854	1,5	1980	30000	4,6	2000	1,1	2200	30000	
A 55 4_324.7	324.7	5,5	1854	1,2	2030	30000	3,7	2000	0,87	2200	30000	
A 55 4_414.0	414.0	4,3	1854	0,95	2080	30000	2,9	2000	0,68	2200	30000	
A 55 4_505.9	505.9	3,6	1900	0,80	2120	30000	2,4	2000	0,56	2200	30000	
A 55 4_542.0	542.0	3,3	1900	0,74	2140	30000	2,2	2000	0,52	2200	30000	
A 55 4_599.5	599.5	3,0	1950	0,69	2150	30000	2,0	2000	0,47	2200	30000	
A 55 4_655.1	655.1	2,7	1950	0,63	2180	30000	1,8	2000	0,43	2200	30000	
A 55 4_714.7	714.7	2,5	1950	0,58	2200	30000	1,7	2000	0,40	2200	30000	
A 55 4_793.0	793.0	2,3	2000	0,53	2200	30000	1,5	2000	0,36	2200	30000	

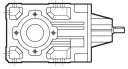



# A 60 2800 Nm

	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
<b>A 60 2_7.9</b>	7.9	228	1112	29	3087	25678	152	1256	21	3573	30000	376
<b>A 60 2_10.3</b>	10.3	175	1112	22	3396	27810	117	1256	16,3	3931	30000	
<b>A 60 2_12.7</b>	12.7	142	1159	18,9	3459	27810	94	1309	13,8	4004	30000	
<b>A 60 2_16.7</b>	16.7	108	1205	14,9	3550	28600	72	1361	10,9	4109	30000	
<b>A 60 2_20.6</b>	20.6	87	1298	13,1	3532	30000	58	1466	9,5	4088	30000	
<b>A 60 3_25.7</b>	25.7	70	2760	22,2	3450	27810	47	2800	15,0	3994	30000	
<b>A 60 3_27.9</b>	27.9	65	2800	20,8	3568	27810	43	2800	13,9	4130	30000	
<b>A 60 3_31.7</b>	31.7	57	2800	18,3	3578	29000	38	2800	12,2	4141	30000	
<b>A 60 3_34.3</b>	34.3	52	2800	16,9	3686	30000	35	2800	11,3	4267	30000	
<b>A 60 3_41.7</b>	41.7	43	2800	13,9	3714	30000	28,8	2800	9,3	4299	30000	
<b>A 60 3_45.2</b>	45.2	40	2800	12,8	3814	30000	26,5	2800	8,6	4414	30000	
<b>A 60 3_51.3</b>	51.3	35	2800	11,3	3795	30000	23,4	2800	7,5	4393	30000	
<b>A 60 3_55.6</b>	55.6	32	2800	10,4	3886	30000	21,6	2800	7,0	4498	30000	
<b>A 60 3_65.0</b>	65.0	27,7	2800	8,9	3868	30000	18,5	2800	5,9	4477	30000	
<b>A 60 3_70.4</b>	70.4	25,6	2800	8,2	3959	30000	17,0	2800	5,5	4582	30000	
<b>A 60 3_79.7</b>	79.7	22,6	2800	7,3	3913	30000	15,1	2800	4,9	4530	30000	
<b>A 60 3_86.4</b>	86.4	20,8	2800	6,7	4004	30000	13,9	2800	4,5	4635	30000	
<b>A 60 3_99.5</b>	99.5	18,1	2800	5,8	3959	30000	12,1	2800	3,9	4582	30000	
<b>A 60 3_107.8</b>	107.8	16,7	2800	5,4	4041	30000	11,1	2800	3,6	4677	30000	
<b>A 60 3_123.0</b>	123.0	14,6	2800	4,7	3995	30000	9,8	2800	3,1	4624	30000	
<b>A 60 3_133.3</b>	133.3	13,5	2800	4,4	4077	30000	9,0	2800	2,9	4700	30000	
<b>A 60 3_144.0</b>	144.0	12,5	2800	4,0	4013	30000	8,3	2800	2,7	4645	30000	
<b>A 60 3_156.0</b>	156.0	11,5	2800	3,7	4095	30000	7,7	2800	2,5	4700	30000	
<b>A 60 3_171.5</b>	171.5	10,5	2800	3,4	4022	30000	7,0	2800	2,3	4656	30000	
<b>A 60 3_185.8</b>	185.8	9,7	2800	3,1	4104	30000	6,5	2800	2,1	4700	30000	
<b>A 60 4_208.7</b>	208.7	8,6	2800	2,8	3178	30000	5,7	2800	1,9	3500	30000	
<b>A 60 4_226.1</b>	226.1	8,0	2800	2,6	3178	30000	5,3	2800	1,7	3500	30000	
<b>A 60 4_264.3</b>	264.3	6,8	2800	2,2	3178	30000	4,5	2800	1,5	3500	30000	
<b>A 60 4_286.3</b>	286.3	6,3	2800	2,1	3178	30000	4,2	2800	1,4	3500	30000	
<b>A 60 4_324.2</b>	324.2	5,6	2800	1,8	3178	30000	3,7	2800	1,2	3500	30000	
<b>A 60 4_351.2</b>	351.2	5,1	2800	1,7	3178	30000	3,4	2800	1,1	3500	30000	
<b>A 60 4_404.7</b>	404.7	4,4	2800	1,5	3178	30000	3,0	2800	0,98	3500	30000	
<b>A 60 4_438.4</b>	438.4	4,1	2800	1,4	3178	30000	2,7	2800	0,90	3500	30000	
<b>A 60 4_500.3</b>	500.3	3,6	2800	1,2	3178	30000	2,4	2800	0,79	3500	30000	
<b>A 60 4_542.0</b>	542.0	3,3	2800	1,1	3178	30000	2,2	2800	0,73	3500	30000	
<b>A 60 4_585.8</b>	585.8	3,1	2800	1,0	3178	30000	2,0	2800	0,67	3500	30000	
<b>A 60 4_634.6</b>	634.6	2,8	2800	0,93	3178	30000	1,9	2800	0,62	3500	30000	
<b>A 60 4_697.3</b>	697.3	2,6	2800	0,85	3190	30000	1,7	2800	0,57	3500	30000	
<b>A 60 4_755.4</b>	755.4	2,4	2800	0,79	3210	30000	1,6	2800	0,52	3500	30000	



# A 70 5000 Nm

	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
A 70 3_9.4	9.4	191	2596	57	2315	29571	128	2932	43	2695	33431	
A 70 3_10.2	10.2	176	2966	60	2480	29571	118	3250	44	1564	33431	
A 70 3_12.1	12.1	149	2966	51	2420	31425	99	3350	38	1480	35527	
A 70 3_13.1	13.1	137	3105	49	2420	32074	92	3507	37	2220	36261	
A 70 3_15.4	15.4	117	3105	42	2206	34021	78	3507	31	2569	38462	
A 70 3_16.7	16.7	108	3337	41	2500	34484	72	3769	31	2738	38986	
A 70 3_19.7	19.7	91	3430	36	2030	36431	61	3700	26	1892	41186	
A 70 3_21.3	21.3	85	3708	36	2750	36895	56	4000	26	1934	41710	
A 70 3_23.5	23.5	77	3986	35	5675	37544	51	4502	26	6606	42444	
A 70 3_27.8	27.8	65	3893	29.0	5720	40139	43	4397	22	6659	45378	
A 70 3_30.1	30.1	60	4218	29.0	5720	40695	40	4764	22	6659	46007	
A 70 3_35.4	35.4	51	4172	24.4	5784	43198	34	4712	18,4	6733	48837	
A 70 3_38.4	38.4	47	4496	24.3	5793	43847	31	5000	18,0	6744	49570	
A 70 3_45.2	45.2	40	4450	20.4	5811	46350	26.5	5000	15,3	6765	50000	
A 70 3_49.0	49.0	37	4635	19.6	5857	46350	24.5	5000	14,1	6818	50000	
A 70 3_53.2	53.2	34	4635	18.0	5793	46350	22.6	5000	13,0	6744	50000	
A 70 3_57.7	57.7	31	4635	16.6	5893	46350	20.8	5000	12,0	6860	50000	
A 70 3_66.9	66.9	26.9	4635	14.4	5884	46350	17.9	5000	10,3	6849	50000	
A 70 3_72.5	72.5	24.8	4750	13.6	5975	46500	16.6	5000	9,5	6955	50000	
A 70 3_79.3	79.3	22.7	4635	12.1	5920	48400	15.1	5000	8,7	6892	50000	
A 70 3_85.9	85.9	21.0	4950	11.9	6011	49100	14.0	5000	8,0	6997	50000	
A 70 3_96.2	96.2	18.7	4850	10.4	5966	50000	12.5	5000	7,2	6944	50000	
A 70 3_104.2	104.2	17.3	5000	9.9	6047	50000	11.5	5000	6,6	7000	50000	
A 70 3_120.6	120.6	14.9	5000	8.6	6002	50000	10.0	5000	5,7	7000	50000	
A 70 3_130.7	130.7	13.8	5000	7.9	6075	50000	9.2	5000	5,3	7000	50000	
A 70 3_141.9	141.9	12.7	5000	7.3	6029	50000	8.5	5000	4,9	7000	50000	
A 70 3_153.7	153.7	11.7	3754	5.1	6283	50000	7.8	4240	3,8	7000	50000	
A 70 4_169.8	169.8	10.6	5000	6.2	2288	50000	7.1	5000	4,2	2664	50000	
A 70 4_183.9	183.9	9.8	5000	5.8	2424	50000	6.5	5000	3,8	2822	50000	
A 70 4_220.3	220.3	8.2	5000	4.8	2461	50000	5.4	5000	3,2	2864	50000	
A 70 4_238.6	238.6	7.5	5000	4.4	2515	50000	5.0	5000	3,0	2928	50000	
A 70 4_292.0	292.0	6.2	5000	3.6	2533	50000	4.1	5000	2,4	2949	50000	
A 70 4_316.4	316.4	5.7	5000	3.3	2588	50000	3.8	5000	2,2	3012	50000	
A 70 4_369.4	369.4	4.9	5000	2.9	2579	50000	3.2	5000	1,9	3002	50000	
A 70 4_400.2	400.2	4.5	5000	2.6	2633	50000	3.0	5000	1,8	3065	50000	
A 70 4_475.8	475.8	3.8	5000	2.2	2624	50000	2.5	5000	1,5	3055	50000	
A 70 4_515.4	515.4	3.5	5000	2.1	2670	50000	2.3	5000	1,4	3108	50000	
A 70 4_595.0	595.0	3.0	5000	1.8	2651	50000	2.0	5000	1,2	3086	50000	
A 70 4_644.6	644.6	2.8	5000	1.6	2697	50000	1.9	5000	1,1	3139	50000	
A 70 4_705.1	705.1	2.6	5000	1.5	2670	50000	1.7	5000	1,0	3108	50000	
A 70 4_763.9	763.9	2.4	5000	1.4	2715	50000	1.6	5000	0,92	3160	50000	
A 70 4_855.3	855.3	2.1	5000	1.2	2688	50000	1.4	5000	0,83	3129	50000	
A 70 4_926.5	926.5	1.9	5000	1.1	2724	50000	1.3	5000	0,76	3171	50000	
A 70 4_1072	1072	1.7	5000	0.99	2697	50000	1.1	5000	0,66	3139	50000	
A 70 4_1161	1161	1.6	5000	0.91	2742	50000	1.0	5000	0,61	3192	50000	
A 70 4_1242	1242	1.4	5000	0.85	2706	50000	0.97	5000	0,57	3150	50000	
A 70 4_1346	1346	1.3	5000	0.79	2751	50000	0.89	5000	0,52	3203	50000	
A 70 4_1583	1583	1.1	5000	0.67	2715	50000	0.76	5000	0,45	3160	50000	
A 70 4_1715	1715	1.0	5000	0.62	2760	50000	0.70	5000	0,41	3213	50000	

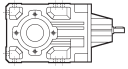

384





# A 80

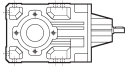

# 8000 Nm

	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
A 80 3_9.8	9.8	184	3611	76	—	29789	122	4087	58	—	33609	392
A 80 3_10.7	10.7	168	3982	77	—	29974	112	4506	58	—	33818	
A 80 3_12.3	12.3	146	3982	67	—	31552	98	4506	51	—	35598	
A 80 3_13.3	13.3	135	3982	62	1150	32666	90	4506	47	1214	36854	
A 80 3_15.5	15.5	116	3797	51	1560	34893	77	4297	38	1827	39367	
A 80 3_16.7	16.7	108	4167	52	1440	35171	72	4716	39	1542	39681	
A 80 3_19.3	19.3	93	4074	44	1870	37306	62	4611	33	1985	42089	
A 80 3_20.9	20.9	86	4445	44	1670	37677	57	5030	33	1837	42508	
A 80 3_22.6	22.6	80	5788	53	5218	35635	53	6550	40	6156	40205	
A 80 3_24.5	24.5	73	6251	53	5227	35821	49	7074	40	6167	40414	
A 80 3_28.2	28.2	64	6112	45	5334	38234	43	6917	34	6294	43136	
A 80 3_30.6	30.6	59	5973	40	5495	39904	39	6760	31	6484	45021	
A 80 3_35.5	35.5	51	6482	38	5370	41110	34	7336	29	6336	46382	
A 80 3_38.5	38.5	47	7038	38	5370	41296	31	7965	29	6336	46592	
A 80 3_44.5	44.5	40	6899	32	5433	44080	27.0	7808	24	6410	49733	
A 80 3_48.2	48.2	37	7408	32	5451	44451	24.9	8000	23	6431	50151	
A 80 3_55.2	55.2	33	7315	27	5415	47142	21.7	8000	20	6389	53188	
A 80 3_59.8	59.8	30	7408	26	5522	48534	20.1	8000	18.5	6516	54758	
A 80 3_66.8	66.8	26.9	7408	23	5504	50669	18.0	8000	16.5	6494	57166	
A 80 3_72.4	72.4	24.9	7408	21	5621	52432	16.6	8000	15.3	6632	59156	
A 80 3_82.3	82.3	21.9	7408	18.6	5576	55030	14.6	8000	13.4	6579	62087	
A 80 3_89.2	89.2	20.2	7800	18.1	5683	56979	13.5	8000	12.4	6706	64286	
A 80 3_96.0	96.0	18.8	7500	16.2	5603	58464	12.5	8000	11.5	6611	65000	
A 80 3_104.0	104.0	17.3	8000	15.9	5710	60320	11.5	8000	10.6	6737	65000	
A 80 3_116.0	116.0	15.5	8000	14.3	5639	60320	10.3	8000	9.5	6653	65000	
A 80 3_125.6	125.6	14.3	8000	13.2	5746	60320	9.6	8000	8.8	6780	65000	
A 80 3_144.7	144.7	12.4	8000	11.5	5683	60320	8.3	8000	7.6	6706	65000	
A 80 3_156.8	156.8	11.5	8000	10.6	5782	60320	7.7	8000	7.0	6822	65000	
A 80 4_171.3	171.3	10.5	8000	9.9	—	65000	7.0	8000	6.6	1299	65000	
A 80 4_214.7	214.7	8.4	8000	7.9	—	65000	5.6	8000	5.3	1478	65000	
A 80 4_232.6	232.6	7.7	8000	7.3	—	65000	5.2	8000	4.9	1911	65000	
A 80 4_277.3	277.3	6.5	8000	6.1	1727	65000	4.3	8000	4.1	2038	65000	
A 80 4_300.4	300.4	6.0	8000	5.6	2050	65000	4.0	8000	3.8	2418	65000	
A 80 4_354.0	354.0	5.1	8000	4.8	1960	65000	3.4	8000	3.2	2313	65000	
A 80 4_383.5	383.5	4.7	8000	4.4	2264	65000	3.1	8000	2.9	2672	65000	
A 80 4_442.1	442.1	4.1	8000	3.8	2175	65000	2.7	8000	2.6	2566	65000	
A 80 4_478.9	478.9	3.8	8000	3.5	2390	65000	2.5	8000	2.4	2820	65000	
A 80 4_560.5	560.5	3.2	8000	3.0	2354	65000	2.1	8000	2.0	2777	65000	
A 80 4_607.2	607.2	3.0	8000	2.8	2434	65000	2.0	8000	1.9	2872	65000	
A 80 4_703.5	703.5	2.6	8000	2.4	2408	65000	1.7	8000	1.6	2841	65000	
A 80 4_762.1	762.1	2.4	8000	2.2	2470	65000	1.6	8000	1.5	2915	65000	
A 80 4_829.5	829.5	2.2	8000	2.0	2434	65000	1.4	8000	1.4	2872	65000	
A 80 4_898.7	898.7	2.0	8000	1.9	2488	65000	1.3	8000	1.3	2936	65000	
A 80 4_1001	1001	1.8	8000	1.7	2452	65000	1.2	8000	1.1	2893	65000	
A 80 4_1085	1085	1.7	8000	1.6	2506	65000	1.1	8000	1.0	2957	65000	
A 80 4_1237	1237	1.5	8000	1.4	2461	65000	0.97	8000	0.91	2904	65000	
A 80 4_1340	1340	1.3	8000	1.3	2515	65000	0.90	8000	0.84	2967	65000	
A 80 4_1438	1438	1.3	8000	1.2	2479	65000	0.83	8000	0.79	2925	65000	
A 80 4_1558	1558	1.2	8000	1.1	2533	65000	0.77	8000	0.73	2988	65000	

(—) Entre em contato com o nosso departamento de assistência técnica e informe os dados da carga radial (sentido de rotação, orientação e posição)



# A 90 14000 Nm

	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
A 90 3_9.7	9.7	186	8380	179	4869	32515	124	9050	129	5818	36610	400
A 90 3_10.5	10.5	171	9075	179	4877	32422	114	9800	129	5829	36505	
A 90 3_12.6	12.6	143	9677	159	4225	34094	95	10952	120	5049	38388	
A 90 3_13.7	13.7	131	10325	156	4670	34280	88	11685	118	5333	38597	
A 90 3_15.6	15.6	115	10140	135	4772	36603	77	11476	102	5702	41212	
A 90 3_16.9	16.9	107	10973	134	4798	36510	71	12419	101	5734	41108	
A 90 3_19.4	19.4	93	10695	114	4719	39297	62	11500	82	5639	44246	
A 90 3_21.0	21.0	86	11482	113	4860	39390	57	12400	82	5808	44350	
A 90 3_22.3	22.3	81	11251	105	10760	40783	54	12733	79	12859	45919	
A 90 3_24.1	24.1	75	12177	105	10760	40690	50	13781	79	12859	45815	
A 90 3_29.1	29.1	62	12038	86	10937	44499	41	13624	65	13070	50103	
A 90 3_31.5	31.5	57	12964	85	10937	44499	38	14000	61	13070	50103	
A 90 3_35.8	35.8	50	12733	74	11025	47472	34	14000	54	13175	53451	
A 90 3_38.8	38.8	46	12964	69	11201	48958	31	14000	50	13386	55124	
A 90 3_44.6	44.6	40	12964	60	11201	52024	26,9	14000	43	13386	58576	
A 90 3_48.3	48.3	37	12964	56	11290	53882	24,8	14000	40	13491	60668	
A 90 3_55.0	55.0	33	12964	49	11290	57041	21,8	14000	35	13491	64224	
A 90 3_59.6	59.6	30	13550	47	11466	58992	20,1	14000	32	13702	66421	
A 90 3_68.8	68.8	26,2	13550	41	11466	62615	17,4	14000	28	13702	70500	
A 90 3_74.5	74.5	24,2	14000	39	11554	64751	16,1	14000	26	13807	72906	
A 90 3_80.4	80.4	22,4	14000	36	11466	66795	14,9	14000	24	13702	75000	
A 90 3_87.1	87.1	20,7	14000	33	11642	69025	13,8	14000	22	13913	75000	
A 90 3_98.6	98.6	18,3	14000	29	11554	69675	12,2	14000	19,6	13807	75000	
A 90 3_106.8	106.8	16,9	14000	27	11731	69675	11,2	14000	18,1	14018	75000	
A 90 3_116.9	116.9	15,4	14000	25	11642	69675	10,3	14000	16,5	13913	75000	
A 90 3_126.6	126.6	14,2	12177	19,9	11819	71400	9,5	13781	15,0	14124	75000	
A 90 3_139.4	139.4	12,9	11807	17,5	11819	74500	8,6	13362	13,2	14124	75000	
A 90 3_151.0	151.0	11,9	12779	17,5	11819	75000	7,9	14000	12,8	14124	75000	
A 90 4_166.1	166.1	10,8	14000	17,9	—	75000	7,2	14000	11,9	—	75000	
A 90 4_180.0	180.0	10,0	14000	16,5	—	75000	6,7	14000	11,0	—	75000	
A 90 4_209.0	209.0	8,6	14000	14,2	—	75000	5,7	14000	9,5	—	75000	
A 90 4_226.4	226.4	8,0	14000	13,1	—	75000	5,3	14000	8,7	—	75000	
A 90 4_281.4	281.4	6,4	14000	10,5	—	75000	4,3	14000	7,0	—	75000	
A 90 4_304.9	304.9	5,9	14000	9,7	—	75000	3,9	14000	6,5	—	75000	
A 90 4_355.8	355.8	5,1	14000	8,3	—	75000	3,4	14000	5,6	—	75000	
A 90 4_385.4	385.4	4,7	14000	7,7	—	75000	3,1	14000	5,1	717	75000	
A 90 4_449.2	449.2	4,0	14000	6,6	—	75000	2,7	14000	4,4	—	75000	
A 90 4_486.6	486.6	3,7	14000	6,1	—	75000	2,5	14000	4,1	1001	75000	
A 90 4_555.3	555.3	3,2	14000	5,3	—	75000	2,2	14000	3,6	780	75000	
A 90 4_601.6	601.6	3,0	14000	4,9	—	75000	2,0	14000	3,3	1265	75000	
A 90 4_707.9	707.9	2,5	14000	4,2	—	75000	1,7	14000	2,8	1107	75000	
A 90 4_766.9	766.9	2,3	14000	3,9	—	75000	1,6	14000	2,6	1570	75000	
A 90 4_865.1	865.1	2,1	14000	3,4	—	75000	1,4	14000	2,3	1233	75000	
A 90 4_937.2	937.2	1,9	14000	3,2	—	75000	1,3	14000	2,1	1676	75000	
A 90 4_1025	1025	1,8	14000	2,9	—	75000	1,2	14000	1,9	1402	75000	
A 90 4_1111	1111	1,6	14000	2,7	—	75000	1,1	14000	1,8	1834	75000	
A 90 4_1222	1222	1,5	14000	2,4	—	75000	0,98	14000	1,6	1455	75000	
A 90 4_1324	1324	1,4	14000	2,2	—	75000	0,91	14000	1,5	1887	75000	
A 90 4_1507	1507	1,2	14000	2,0	—	75000	0,80	14000	1,3	1518	75000	
A 90 4_1632	1632	1,1	14000	1,8	—	75000	0,74	14000	1,2	1939	75000	

(—) Entre em contato com o nosso departamento de assistência técnica e informe os dados da carga radial (sentido de rotação, orientação e posição)



## 41 DISPONIBILIDADE DE MOTOR

Observe que as combinações de motor e redutor resultantes das tabelas (C39) e (C40) baseiam-se meramente na compatibilidade geométrica.

**Ao seleccionar um redutor, consulte o procedimento especificado no parágrafo 11 e observe especificamente a condição  $S \geq f_s$ .**

(C 40)

	IEC_   (IM B5)											
	P63	P71	P80	P90	P100	P112	P132	P160	P180	P200	P225	P250
A 05 2	5.5_91.6	5.5_51.3	5.5_51.3									
A 10 2	5.5_91.6	5.5_91.6	5.5_65.9	5.5_65.9	5.5_65.9	5.5_65.9						
A 20 2	7.3_92.3 ⊖(10.3)	7.3_92.3 ⊖(10.3)	5.4_79.9	5.4_79.9	5.4_79.9	5.4_79.9						
A 20 3	109.2_380.9	109.2_380.9	109.2_380.9	109.2_380.9	109.2_380.9	109.2_380.9						
A 30 2	9.3_97.5 ⊖(10.5; 13.6_16.3)	9.3_97.5 ⊖(10.5; 13.6_16.3)	5.4_97.5	5.4_97.5	5.4_97.5	5.4_97.5						
A 30 3	109.1_400.8	109.1_400.8	109.1_400.8	109.1_400.8	109.1_400.8	109.1_400.8						
A 35 2	9.3_95.6 ⊖(13.1_20.4)	9.3_95.6 ⊖(13.1_20.4)	5.4_95.6	5.4_95.6	5.4_95.6	5.4_95.6	5.4_11.8					
A 35 3	105.5_393.2	105.5_393.2	105.5_393.2	105.5_393.2	105.5_393.2	105.5_393.2						
A 41 2	11.7_79.2 ⊖(13.8_17.8)	11.7_79.2 ⊖(13.8_17.8)	5.2_79.2	5.2_79.2	5.2_79.2	5.2_79.2	5.2_45.1					
A 41 3	92.8_376.8	92.8_376.8	92.8_376.8	92.8_376.8	92.8_376.8	92.8_376.8						
A 50 2	20.9	20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9			
A 50 3	51.7_190.6	51.7_190.6	24.0_190.6	24.0_190.6	24.0_190.6	24.0_190.6	24.0_109.4	24.0_109.4	24.0_109.4			
A 50 4	211.0_778.2	211.0_778.2	211.0_778.2	211.0_778.2	211.0_778.2	211.0_778.2						
A 55 2			13.1_19.2	13.1_19.2	13.1_19.2	13.1_19.2	4.9_19.2	4.9_19.2	4.9_19.2			
A 55 3	64.3_194.2	64.3_194.2	23.8_194.2	23.8_194.2	23.8_194.2	23.8_194.2	23.8_123.9	23.8_123.9	23.8_123.9			
A 55 4	208.1_793.0	208.1_793.0	208.1_793.0	208.1_793.0	208.1_793.0	208.1_793.0						
A 60 2			10.3_20.6	10.3_20.6	10.3_20.6	10.3_20.6	7.9_20.6	7.9_20.6	7.9_20.6			
A 60 3	65.0_185.8	65.0_185.8	25.7_185.8	25.7_185.8	25.7_185.8	25.7_185.8	25.7_133.3	25.7_133.3	25.7_133.3			
A 60 4	208.7_755.4	208.7_755.4	208.7_755.4	208.7_755.4	208.7_755.4	208.7_755.4						
A 70 3			66.9_153.7	66.9_153.7	66.9_153.7	66.9_153.7	15.4_153.7 ⊖(23.5_30.1)	9.4_153.7	9.4_153.7	9.4_38.4 ⊖(19.7_21.3)		
A 70 4	292.0_1715	292.0_1715	169.8_1715	169.8_1715	169.8_1715	169.8_1715	169.8_644.6					
A 80 3			82.3_156.8	82.3_156.8	82.3_156.8	82.3_156.8	19.3_156.8 ⊖(22.6_38.5)	12.3_156.8 ⊖(22.6_24.5)	9.8_156.8	9.8_104.0	9.8_104.0	
A 80 4	354.0_1558	354.0_1558	171.3_1558	171.3_1558	171.3_1558	171.3_1558	171.3_762.1					
A 90 3			98.6_151.0	98.6_151.0	98.6_151.0	98.6_151.0	55.0_151.0	19.4_151.0 ⊖(22.3_38.8)	9.7_151.0	9.7_126.6	9.7_126.6	9.7_126.6
A 90 4	449.2_1632	449.2_1632	166.1_1632	166.1_1632	166.1_1632	166.1_1632	166.1_937.2	166.1_937.2	166.1_937.2			

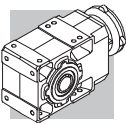


(C 41)





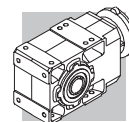
**NEMA Motor frame**

		N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC
<b>A 05 2</b>		5.5_91.6	5.5_65.9					
<b>A 10 2</b>		5.5_91.6	5.5_65.9	5.5_65.9				
<b>A 20 2</b>		7.3_92.3 ⊖(10.3)	5.4_79.9	5.4_79.9				
<b>A 20 3</b>		109.2_380.9	109.2_380.9	109.2_380.9				
<b>A 30 2</b>		9.3_97.5 ⊖(10.5; 13.6_16.3)	5.4_97.5	5.4_97.5				
<b>A 30 3</b>		109.1_400.8	109.1_400.8	109.1_400.8				
<b>A 35 2</b>		9.3_95.6 ⊖(13.1_20.4)	5.4_95.6	5.4_95.6	5.4_11.8			
<b>A 35 3</b>		105.5_393.2	105.5_393.2	105.5_393.2				
<b>A 41 2</b>		11.7_79.2 ⊖(13.8_17.8)	5.2_79.2	5.2_79.2	5.2_45.1			
<b>A 41 3</b>		92.8_376.8	92.8_376.8	92.8_376.8				
<b>A 50 2</b>		20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	
<b>A 50 3</b>		51.7_190.6	24.0_190.6	24.0_190.6	24.0_109.4	24.0_109.4	24.0_109.4	
<b>A 50 4</b>	i =	211.0_778.2	211.0_778.2	211.0_778.2				
<b>A 55 2</b>			13.1_19.2	13.1_19.2	4.9_19.2	4.9_19.2	4.9_19.2	
<b>A 55 3</b>		64.3_194.2	23.8_194.2	23.8_194.2	23.8_123.9	23.8_123.9	23.8_123.9	
<b>A 55 4</b>		208.1_793.0	208.1_793.0	208.1_793.0				
<b>A 60 2</b>			10.3_20.6	10.3_20.6	7.9_20.6	7.9_20.6	7.9_20.6	
<b>A 60 3</b>		65.0_185.8	25.7_185.8	25.7_185.8	25.7_133.3	25.7_133.3	25.7_133.3	
<b>A 60 4</b>		208.7_755.4	208.7_755.4	208.7_755.4				
<b>A 70 3</b>			66.9_153.7	66.9_153.7	15.4_153.7 ⊖(23.5_30.1)	9.4_153.7	9.4_153.7	
<b>A 70 4</b>		292.0_1715	169.8_1715	169.8_1715	169.8_644.6			
<b>A 80 3</b>				82.3_156.8	19.3_156.8 ⊖(22.6_38.5)	12.3_156.8 ⊖(22.6_24.5)	9.8_156.8	9.8_104.0
<b>A 80 4</b>		354.0_1558	171.3_1558	171.3_1558	171.3_762.1			
<b>A 90 3</b>				98.6_151.0	55.0_151.0	19.4_151.0 ⊖(22.3_38.8)	9.7_151.0	9.7_126.6
<b>A 90 4</b>		449.2_1632	166.1_1632	166.1_1632	166.1_937.2	166.1_937.2	166.1_937.2	



(C 42)

		 					
		M05	M1	M2 - ME2	ME3	ME4	ME5
A 05 2	i =	5.5_91.6	5.5_51.3	5.5_65.9			
A 10 2		5.5_91.6	5.5_51.3	5.5_65.9	5.5_65.9		
A 20 2		7.3_92.3 ⊖ (10.3)	7.3_63.1 ⊖ (10.3)	5.4_79.9	5.4_79.9		
A 20 3		109.2_380.9	109.2_380.9	109.2_380.9	109.2_380.9		
A 30 2			9.3_76.5 ⊖ (10.5 ; 13.6_16.3)	5.4_97.5	5.4_97.5		
A 30 3		109.1_400.8	109.1_400.8	109.1_400.8	109.1_400.8		
A 35 2			9.3_95.6 ⊖ (13.1_20.4)	5.4_95.6	5.4_95.6	5.4_11.8	
A 35 3		105.5_393.2	105.5_393.2	105.5_393.2	105.5_393.2		
A 41 2			11.7_79.2 ⊖ (13.8_17.8)	5.2_79.2	5.2_79.2	5.2_45.1	
A 41 3		92.8_376.8	92.8_376.8	92.8_376.8	92.8_376.8		
A 50 2			20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9
A 50 3			51.7_190.6	24.0_190.6	24.0_190.6	24.0_109.4	24.0_109.4
A 50 4			211.0_778.2	211.0_778.2	211.0_778.2		
A 55 2				13.1_19.2	13.1_19.2	4.9_19.2	4.9_19.2
A 55 3			64.3_194.2	23.8_194.2	23.8_194.2	23.8_123.9	23.8_123.9
A 55 4			208.1_793.0	208.1_793.0	208.1_793.0		
A 60 2				10.3_20.6	10.3_20.6	7.9_20.6	7.9_20.6
A 60 3				25.7_185.8	25.7_185.8	25.7_133.3	25.7_133.3
A 60 4			208.7_755.4	208.7_755.4	208.7_755.4		
A 70 3				66.9_153.7	66.9_153.7	15.4_153.7 ⊖ (23.5_30.1)	15.4_153.7 ⊖ (23.5_30.1)
A 70 4			292.0_1715	169.8_1715	169.8_1715	169.8_644.6	
A 80 3					82.3_156.8	19.3_156.8 ⊖ (22.6_38.5)	19.3_156.8 ⊖ (22.6_38.5)
A 80 4			354.0_1558	171.3_1558	171.3_1558	171.3_762.1	
A 90 3					98.6_151.0	55.0_151.0	55.0_151.0
A 90 4			449.2_1632	166.1_1632	166.1_1632	166.1_937.2	



Adaptadores para motor compatíveis com as marcas mais populares de servomotores estão disponíveis para as unidades tamanhos A05...A60. As dimensões das entradas do servomotor são fornecidas na seção “desenho” de cada tamanho de quadro.

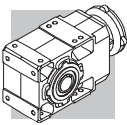
O código **SK** é aplicável para entradas com chaveta convencional, enquanto que o eixo de entrada especificado pelo código **SC** terá um dispositivo de fixação em vez da chaveta convencional.

(C 43)

		SERVO INPUT							
		SK40A	SK60A	SK60B	SK80A	SK80B	SK80C		
		SC40A	SC60A	SC60B	SC80A	SC80B	SC80C		
A 05 2	i =	5.5_91.6	5.5_91.6	5.5_51.3	5.5_51.3				
A 10 2			5.5_91.6	5.5_51.3	5.5_51.3			5.5_65.9	
A 20 2			7.3_92.3 ⊖ (10.3)	7.3_63.1 ⊖ (10.3)	7.3_63.1 ⊖ (10.3)			5.4_79.9	
A 20 3			109.2_380.9	109.2_380.9	109.2_380.9			109.2_380.9	
A 30 2			9.3_97.5 ⊖ (10.5 ; 13.6_16.3)	9.3_76.5 ⊖ (10.5 ; 13.6_16.3)	9.3_76.5 ⊖ (10.5 ; 13.6_16.3)			5.4_97.5	
A 30 3			109.1_400.8	109.1_400.8	109.1_400.8			109.1_400.8	
A 35 2			9.3_95.6 ⊖ (13.1_20.4)	9.3_95.6 ⊖ (13.1_20.4)	9.3_95.6 ⊖ (13.1_20.4)			5.4_95.6	
A 35 3			105.5_393.2	105.5_393.2	105.5_393.2			105.5_393.2	
A 41 2							11.7_79.2 ⊖ (13.8_17.8)	5.2_79.2	
A 41 3			92.8_376.8	92.8_376.8	92.8_376.8			92.8_376.8	
A 50 2							20.9	7.7_20.9	
A 50 3							51.7_190.6	24.0_190.6	
A 50 4								211.0_778.2	
A 55 2								13.1_19.2	
A 55 3							64.3_194.2	23.8_194.2	
A 55 4								208.1_793.0	
A 60 2								10.3_20.6	
A 60 3								25.7_185.8	
A 60 4							208.7_755.4	208.7_755.4	




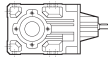

(C 44)

		SERVO INPUT									
		SK95A	SK95B	SK95C	SK110A	SK110B	SK130A	SK130B	SK180A	SK180B	
		SC95A	SC95B	SC95C	SC110A	SC110B	SC130A	SC130B	SC180A	SC180B	
A 10 2	i =	5.5_51.3	5.5_65.9	5.5_65.9	5.5_65.9	5.5_65.9					
A 20 2		7.3_63.1 ⊖ (10.3)	5.4_79.9	5.4_79.9	5.4_79.9	5.4_79.9					
A 20 3		109.2_380.9	109.2_380.9	109.2_380.9	109.2_380.9	109.2_380.9					
A 30 2		9.3_76.5 ⊖ (10.5 ; 13.6_16.3)	5.4_97.5	5.4_97.5	5.4_97.5	5.4_97.5	5.4_97.5				
A 30 3		109.1_400.8	109.1_400.8	109.1_400.8	109.1_400.8	109.1_400.8					
A 35 2		9.3_95.6 ⊖ (13.1_20.4)	5.4_95.6	5.4_95.6	5.4_95.6	5.4_95.6	5.4_95.6				
A 35 3		105.5_393.2	105.5_393.2	105.5_393.2	105.5_393.2	105.5_393.2					
A 41 2		11.7_79.2 ⊖ (13.8_17.8)	5.2_79.2	5.2_79.2	5.2_79.2	5.2_79.2	5.2_79.2	5.2_45.1	5.2_45.1	5.2_45.1	
A 41 3		92.8_376.8	92.8_376.8	92.8_376.8	92.8_376.8	92.8_376.8					
A 50 2		20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	
A 50 3		51.7_190.6	24.0_190.6	24.0_190.6	24.0_190.6	24.0_190.6	24.0_190.6	24.0_109.4	24.0_109.4	24.0_109.4	
A 50 4		211.0_778.2	211.0_778.2	211.0_778.2	211.0_778.2	211.0_778.2	211.0_778.2				
A 55 2			13.1_19.2	13.1_19.2	13.1_19.2	13.1_19.2	13.1_19.2	4.9_19.2	4.9_19.2	4.9_19.2	
A 55 3		64.3_194.2	23.8_194.2	23.8_194.2	23.8_194.2	23.8_194.2	23.8_194.2	23.8_123.9	23.8_123.9	23.8_123.9	
A 55 4		208.1_793.0	208.1_793.0	208.1_793.0	208.1_793.0	208.1_793.0	208.1_793.0				
A 60 2			10.3_20.6	10.3_20.6	10.3_20.6	10.3_20.6	10.3_20.6	7.9_20.6	7.9_20.6	7.9_20.6	
A 60 3			65.0_185.8	25.7_185.8	25.7_185.8	25.7_185.8	25.7_185.8	25.7_133.3	25.7_133.3	25.7_133.3	
A 60 4			208.7_755.4	208.7_755.4	208.7_755.4	208.7_755.4	208.7_755.4				






## 42 MOMENTO DE INÉRCIA

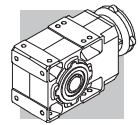
As tabelas abaixo indicam os valores de momento de inércia  $J_r$  [kgm<sup>2</sup>] referentes ao eixo de alta velocidade do redutor. Legenda dos símbolos utilizados a seguir:

	<p>Valores sob este ícone referem-se a redutores compactos, sem motor. Para obter o momento de inércia total do redutor, basta incluir o valor da inércia do motor compacto específico, fornecido na tabela de classificação pertinente.</p>	 <b>NEMA</b>	<p>Valores sob este símbolo referem-se a redutores com adaptador para motor NEMA (tamanho NEMA...).</p>
 <b>IEC</b>	<p>Valores sob este símbolo referem-se a redutores com adaptador para motor IEC (tamanho IEC...).</p>		<p>Este símbolo refere-se a valores para redutores.</p>
		 <b>SERVO</b>	<p>Valores sob este símbolo referem-se a redutores com adaptador de entrada para servomotor.</p>




## A 05

	i	J (•10 <sup>-4</sup> ) [kgm <sup>2</sup> ]				
			 IEC			
			63	71		80
A 05 2_5.5	5.5	0.72	0.99	1.0	1.4	—
A 05 2_6.3	6.3	0.56	0.83	0.86	1.2	—
A 05 2_7.2	7.2	0.48	0.74	0.77	1.1	—
A 05 2_8.5	8.5	0.36	0.63	0.65	1.0	—
A 05 2_9.6	9.6	0.29	0.55	0.58	0.92	—
A 05 2_10.6	10.6	0.50	0.77	0.80	1.1	—
A 05 2_12.3	12.3	0.18	0.45	0.48	0.82	—
A 05 2_13.9	13.9	0.35	0.62	0.65	0.99	—
A 05 2_16.4	16.4	0.27	0.54	0.57	0.91	—
A 05 2_18.6	18.6	0.22	0.49	0.51	0.86	—
A 05 2_21.4	21.4	0.16	0.43	0.46	0.80	—
A 05 2_23.8	23.8	0.14	0.41	0.43	0.78	—
A 05 2_25.5	25.5	0.13	0.39	0.42	0.76	—
A 05 2_28.6	28.6	0.11	0.38	0.40	0.75	—
A 05 2_32.2	32.2	0.09	0.36	0.39	0.73	—
A 05 2_35.1	35.1	0.08	0.35	0.37	0.72	—
A 05 2_40.9	40.9	0.07	0.33	0.36	0.70	—
A 05 2_45.4	45.4	0.05	0.32	0.35	0.69	—
A 05 2_51.3	51.3	0.04	0.31	0.34	0.68	—
A 05 2_58.6	58.6	0.04	0.31	—	—	—
A 05 2_65.9	65.9	0.03	0.30	—	—	—
A 05 2_76.4	76.4	0.02	0.29	—	—	—
A 05 2_91.6	91.6	0.02	0.28	—	—	—






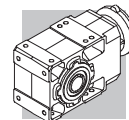
## A 05

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]				
			 NEMA			
			N56C	N140TC	N180TC	
A 05 2_5.5	5.5	0.72	0.99	0.99	1.4	—
A 05 2_6.3	6.3	0.56	0.83	0.83	1.2	—
A 05 2_7.2	7.2	0.48	0.74	0.74	1.1	—
A 05 2_8.5	8.5	0.36	0.63	0.63	1.0	—
A 05 2_9.6	9.6	0.29	0.55	0.55	0.92	—
A 05 2_10.6	10.6	0.50	0.77	0.77	1.1	—
A 05 2_12.3	12.3	0.18	0.45	0.45	0.82	—
A 05 2_13.9	13.9	0.35	0.62	0.62	0.99	—
A 05 2_16.4	16.4	0.27	0.54	0.54	0.91	—
A 05 2_18.6	18.6	0.22	0.49	0.49	0.86	—
A 05 2_21.4	21.4	0.16	0.43	0.43	0.80	—
A 05 2_23.8	23.8	0.14	0.41	0.41	0.78	—
A 05 2_25.5	25.5	0.13	0.39	0.39	0.76	—
A 05 2_28.6	28.6	0.11	0.38	0.38	0.75	—
A 05 2_32.2	32.2	0.09	0.36	0.36	0.73	—
A 05 2_35.1	35.1	0.08	0.35	0.35	0.72	—
A 05 2_40.9	40.9	0.07	0.33	0.33	0.70	—
A 05 2_45.4	45.4	0.05	0.32	0.32	0.69	—
A 05 2_51.3	51.3	0.04	0.31	0.31	0.68	—
A 05 2_58.6	58.6	0.04	0.31	0.31	—	—
A 05 2_65.9	65.9	0.03	0.30	0.30	—	—
A 05 2_76.4	76.4	0.02	0.29	0.29	—	—
A 05 2_91.6	91.6	0.02	0.28	0.28	—	—



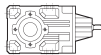


## A 05

		J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]					
i		 <b>SERVO</b>					
		40A		60A		60B 80A	
		SK	SC	SK	SC	SK	SC
<b>A 05 2_5.5</b>	5.5	0.89	1.1	0.99	1.3	1.0	1.4
<b>A 05 2_6.3</b>	6.3	0.73	0.89	0.83	1.1	0.86	1.3
<b>A 05 2_7.2</b>	7.2	0.65	0.81	0.74	1.0	0.77	1.2
<b>A 05 2_8.5</b>	8.5	0.53	0.69	0.63	0.89	0.65	1.1
<b>A 05 2_9.6</b>	9.6	0.46	0.62	0.55	0.81	0.58	1.0
<b>A 05 2_10.6</b>	10.6	0.67	0.83	0.77	1.0	0.80	1.2
<b>A 05 2_12.3</b>	12.3	0.35	0.51	0.45	0.71	0.48	0.92
<b>A 05 2_13.9</b>	13.9	0.52	0.68	0.62	0.88	0.65	1.1
<b>A 05 2_16.4</b>	16.4	0.44	0.60	0.54	0.80	0.57	1.0
<b>A 05 2_18.6</b>	18.6	0.39	0.55	0.49	0.75	0.51	0.95
<b>A 05 2_21.4</b>	21.4	0.33	0.49	0.43	0.69	0.46	0.90
<b>A 05 2_23.8</b>	23.8	0.31	0.47	0.41	0.67	0.43	0.87
<b>A 05 2_25.5</b>	25.5	0.30	0.46	0.39	0.65	0.42	0.86
<b>A 05 2_28.6</b>	28.6	0.28	0.44	0.38	0.64	0.40	0.84
<b>A 05 2_32.2</b>	32.2	0.26	0.42	0.36	0.62	0.39	0.83
<b>A 05 2_35.1</b>	35.1	0.25	0.41	0.35	0.61	0.37	0.81
<b>A 05 2_40.9</b>	40.9	0.24	0.40	0.33	0.59	0.36	0.80
<b>A 05 2_45.4</b>	45.4	0.22	0.38	0.32	0.58	0.35	0.79
<b>A 05 2_51.3</b>	51.3	0.21	0.37	0.31	0.57	0.34	0.78
<b>A 05 2_58.6</b>	58.6	0.21	0.37	0.31	0.57	—	—
<b>A 05 2_65.9</b>	65.9	0.20	0.36	0.30	0.56	—	—
<b>A 05 2_76.4</b>	76.4	0.19	0.35	0.29	0.55	—	—
<b>A 05 2_91.6</b>	91.6	0.19	0.35	0.28	0.54	—	—






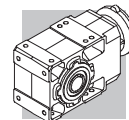
# A 10

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]							
			 IEC						
			63	71	80	90	100	112	
A 10 2_5.5	5.5	1.0	2.5	2.5	3.9	3.8	5.1	5.1	1.8
A 10 2_6.3	6.3	0.80	2.3	2.3	3.7	3.6	4.9	4.9	1.6
A 10 2_7.2	7.2	0.60	2.1	2.1	3.5	3.4	4.7	4.7	1.5
A 10 2_8.5	8.5	0.45	1.9	1.9	3.3	3.1	4.5	4.5	1.4
A 10 2_9.6	9.6	0.30	1.8	1.8	3.2	3.1	4.4	4.4	1.3
A 10 2_10.6	10.6	0.50	2.0	2.0	3.4	3.3	4.6	4.6	1.4
A 10 2_12.3	12.3	0.20	1.7	1.7	3.1	3.0	4.3	4.3	1.1
A 10 2_13.9	13.9	0.30	1.8	1.8	3.2	3.1	4.6	4.6	1.2
A 10 2_16.4	16.4	0.25	1.7	1.7	3.1	3.0	4.3	4.3	1.1
A 10 2_18.6	18.6	0.20	1.7	1.7	3.1	3.0	4.3	4.3	1.0
A 10 2_21.4	21.4	0.15	1.6	1.6	3.0	2.9	4.2	4.2	1.0
A 10 2_23.8	23.8	0.10	1.6	1.6	3.0	2.9	4.2	4.2	1.0
A 10 2_25.5	25.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	1.0
A 10 2_28.6	28.6	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 10 2_32.2	32.2	0.08	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 10 2_35.1	35.1	0.07	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 10 2_40.9	40.9	0.06	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 10 2_45.4	45.4	0.05	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 10 2_51.3	51.3	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 10 2_58.6	58.6	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 10 2_65.9	65.9	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 10 2_76.4	76.4	0.02	1.5	1.5	—	—	—	—	0.90
A 10 2_91.6	91.6	0.01	1.5	1.5	—	—	—	—	0.90




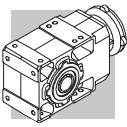
# A 10

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]				
			 NEMA			
			N56C	N140TC	N180TC	
<b>A 10 2_5.5</b>	5.5	1.0	2.5	2.5	3.9	1.8
<b>A 10 2_6.3</b>	6.3	0.80	2.3	2.3	3.7	1.6
<b>A 10 2_7.2</b>	7.2	0.60	2.1	2.1	3.5	1.5
<b>A 10 2_8.5</b>	8.5	0.45	1.9	1.9	3.3	1.4
<b>A 10 2_9.6</b>	9.6	0.30	1.8	1.8	3.2	1.3
<b>A 10 2_10.6</b>	10.6	0.50	2.0	2.0	3.4	1.4
<b>A 10 2_12.3</b>	12.3	0.20	1.7	1.7	3.1	1.1
<b>A 10 2_13.9</b>	13.9	0.30	1.8	1.8	3.2	1.2
<b>A 10 2_16.4</b>	16.4	0.25	1.7	1.7	3.1	1.1
<b>A 10 2_18.6</b>	18.6	0.20	1.7	1.7	3.1	1.0
<b>A 10 2_21.4</b>	21.4	0.15	1.6	1.6	3.0	1.0
<b>A 10 2_23.8</b>	23.8	0.10	1.6	1.6	3.0	1.0
<b>A 10 2_25.5</b>	25.5	0.10	1.6	1.6	3.0	1.0
<b>A 10 2_28.6</b>	28.6	0.10	1.6	1.6	3.0	0.90
<b>A 10 2_32.2</b>	32.2	0.08	1.6	1.6	3.0	0.90
<b>A 10 2_35.1</b>	35.1	0.07	1.6	1.6	3.0	0.90
<b>A 10 2_40.9</b>	40.9	0.06	1.6	1.6	3.0	0.90
<b>A 10 2_45.4</b>	45.4	0.05	1.6	1.6	3.0	0.90
<b>A 10 2_51.3</b>	51.3	0.03	1.5	1.5	2.9	0.90
<b>A 10 2_58.6</b>	58.6	0.03	1.5	1.5	2.9	0.90
<b>A 10 2_65.9</b>	65.9	0.02	1.5	1.5	2.9	0.90
<b>A 10 2_76.4</b>	76.4	0.02	1.5	1.5	—	0.90
<b>A 10 2_91.6</b>	91.6	0.01	1.5	1.5	—	0.90


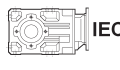
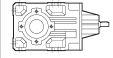


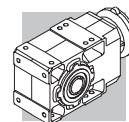
# A 10

		J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]									
		 SERVO									
	i	60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 10 2_5.5	5.5	1.3	1.5	1.3	1.7	3.8	4.3	3.9	4.4	3.8	4.8
A 10 2_6.3	6.3	1.1	1.3	1.1	1.5	3.6	4.1	3.7	4.2	3.6	4.6
A 10 2_7.2	7.2	0.87	1.1	0.89	1.3	3.4	3.9	3.5	4.0	3.4	4.4
A 10 2_8.5	8.5	0.72	0.98	0.74	1.2	3.3	3.7	3.3	3.8	3.1	4.1
A 10 2_9.6	9.6	0.57	0.83	0.59	1.0	3.1	3.6	3.2	3.7	3.1	4.1
A 10 2_10.6	10.6	0.77	1.0	0.79	1.2	3.3	3.8	3.4	3.9	3.3	4.3
A 10 2_12.3	12.3	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0
A 10 2_13.9	13.9	0.57	0.83	0.59	1.0	3.1	3.6	3.2	3.7	3.1	4.1
A 10 2_16.4	16.4	0.52	0.78	0.54	0.98	3.1	3.5	3.1	3.6	3.0	4.0
A 10 2_18.6	18.6	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0
A 10 2_21.4	21.4	0.42	0.68	0.44	0.88	3.0	3.4	3.0	3.5	2.9	3.9
A 10 2_23.8	23.8	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 10 2_25.5	25.5	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 10 2_28.6	28.6	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 10 2_32.2	32.2	0.35	0.61	0.37	0.81	2.9	3.3	3.0	3.5	2.9	3.9
A 10 2_35.1	35.1	0.34	0.60	0.36	0.80	2.9	3.3	3.0	3.5	2.9	3.9
A 10 2_40.9	40.9	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9
A 10 2_45.4	45.4	0.32	0.58	0.34	0.78	2.9	3.3	3.0	3.5	2.9	3.9
A 10 2_51.3	51.3	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
A 10 2_58.6	58.6	0.30	0.56	—	—	—	—	2.9	3.4	2.8	3.8
A 10 2_65.9	65.9	0.29	0.55	—	—	—	—	2.9	3.4	2.8	3.8
A 10 2_76.4	76.4	0.29	0.55	—	—	—	—	—	—	—	—
A 10 2_91.6	91.6	0.28	0.54	—	—	—	—	—	—	—	—



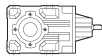


# A 20

	i	J (•10 <sup>-4</sup> ) [kgm <sup>2</sup> ]							
			 IEC						
			63	71	80	90	100	112	
A 20 2_5.4	5.4	2.4	—	—	5.3	5.2	6.5	6.5	4.3
A 20 2_6.5	6.5	1.9	—	—	4.8	4.7	6.0	6.0	3.8
A 20 2_7.3	7.3	1.4	2.9	2.9	4.3	4.2	5.5	5.5	3.3
A 20 2_8.4	8.4	1.1	2.6	2.6	4.0	3.9	5.2	5.2	3.0
A 20 2_9.4	9.4	0.90	2.4	2.4	3.8	3.7	5.0	5.0	2.8
A 20 2_10.3	10.3	1.2	—	—	4.1	4.0	5.3	5.3	3.0
A 20 2_12.0	12.0	0.50	2.0	2.0	3.4	3.3	4.6	4.6	2.4
A 20 2_14.1	14.1	0.70	2.2	2.2	3.6	3.5	4.8	4.8	2.6
A 20 2_16.2	16.2	0.55	2.0	2.0	3.4	3.3	4.6	4.6	2.5
A 20 2_18.1	18.1	0.40	1.9	1.9	3.3	3.2	4.5	4.5	2.4
A 20 2_21.2	21.2	0.35	1.8	1.8	3.2	3.1	4.4	4.4	2.3
A 20 2_23.1	23.1	0.30	1.8	1.8	3.2	3.1	4.4	4.4	2.2
A 20 2_26.5	26.5	0.25	1.7	1.7	3.1	3.0	4.3	4.3	2.1
A 20 2_29.2	29.2	0.20	1.7	1.7	3.1	3.0	4.3	4.3	2.1
A 20 2_31.3	31.3	0.20	1.7	1.7	3.1	3.0	4.3	4.3	2.1
A 20 2_35.4	35.4	0.20	1.7	1.7	3.1	3.0	4.3	4.3	2.1
A 20 2_39.6	39.6	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.0
A 20 2_43.2	43.2	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.0
A 20 2_48.3	48.3	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.0
A 20 2_53.7	53.7	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.0
A 20 2_63.1	63.1	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.0
A 20 2_71.0	71.0	0.05	1.5	1.5	2.9	2.8	4.1	4.1	2.0
A 20 2_79.9	79.9	0.03	1.5	1.5	2.9	2.8	4.1	4.1	2.0
A 20 2_92.3	92.3	0.02	1.5	1.5	—	—	—	—	2.0
A 20 3_109.2	109.2	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_120.5	120.5	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_129.1	129.1	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_146.1	146.1	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_163.4	163.4	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_178.3	178.3	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_199.2	199.2	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_221.3	221.3	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_260.5	260.5	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_292.8	292.8	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_329.4	329.4	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_380.9	380.9	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90



## A 20

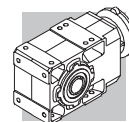
	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]				
			 NEMA			
			N56C	N140TC	N180TC	
A 20 2_5.4	5.4	2.4	—	—	5.3	4.3
A 20 2_6.5	6.5	1.9	—	—	4.8	3.8
A 20 2_7.3	7.3	1.4	2.9	2.9	4.3	3.3
A 20 2_8.4	8.4	1.1	2.6	2.6	4.0	3.0
A 20 2_9.4	9.4	0.90	2.4	2.4	3.8	2.8
A 20 2_10.3	10.3	1.2	—	—	4.1	3.0
A 20 2_12.0	12.0	0.50	2.0	2.0	3.4	2.4
A 20 2_14.1	14.1	0.70	2.2	2.2	3.6	2.6
A 20 2_16.2	16.2	0.55	2.0	2.0	3.4	2.5
A 20 2_18.1	18.1	0.40	1.9	1.9	3.3	2.4
A 20 2_21.2	21.2	0.35	1.8	1.8	3.2	2.3
A 20 2_23.1	23.1	0.30	1.8	1.8	3.2	2.2
A 20 2_26.5	26.5	0.25	1.7	1.7	3.1	2.1
A 20 2_29.2	29.2	0.20	1.7	1.7	3.1	2.1
A 20 2_31.3	31.3	0.20	1.7	1.7	3.1	2.1
A 20 2_35.4	35.4	0.20	1.7	1.7	3.1	2.1
A 20 2_39.6	39.6	0.10	1.6	1.6	3.0	2.0
A 20 2_43.2	43.2	0.10	1.6	1.6	3.0	2.0
A 20 2_48.3	48.3	0.10	1.6	1.6	3.0	2.0
A 20 2_53.7	53.7	0.10	1.6	1.6	3.0	2.0
A 20 2_63.1	63.1	0.10	1.6	1.6	3.0	2.0
A 20 2_71.0	71.0	0.05	1.5	1.5	2.9	2.0
A 20 2_79.9	79.9	0.03	1.5	1.5	2.9	2.0
A 20 2_92.3	92.3	0.02	1.5	1.5	—	2.0
A 20 3_109.2	109.2	0.02	1.5	1.5	2.9	0.90
A 20 3_120.5	120.5	0.02	1.5	1.5	2.9	0.90
A 20 3_129.1	129.1	0.02	1.5	1.5	2.9	0.90
A 20 3_146.1	146.1	0.02	1.5	1.5	2.9	0.90
A 20 3_163.4	163.4	0.01	1.5	1.5	2.9	0.90
A 20 3_178.3	178.3	0.01	1.5	1.5	2.9	0.90
A 20 3_199.2	199.2	0.01	1.5	1.5	2.9	0.90
A 20 3_221.3	221.3	0.01	1.5	1.5	2.9	0.90
A 20 3_260.5	260.5	0.01	1.5	1.5	2.9	0.90
A 20 3_292.8	292.8	0.01	1.5	1.5	2.9	0.90
A 20 3_329.4	329.4	0.01	1.5	1.5	2.9	0.90
A 20 3_380.9	380.9	0.01	1.5	1.5	2.9	0.90





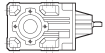


## A 20

		J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]									
		<b>SERVO</b>									
	i	60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 20 2_5.4	5.4	—	—	—	—	—	—	5.3	5.8	5.2	6.2
A 20 2_6.5	6.5	—	—	—	—	—	—	4.8	5.3	4.7	5.7
A 20 2_7.3	7.3	1.7	1.9	1.7	2.1	4.2	4.7	4.3	4.8	4.2	5.2
A 20 2_8.4	8.4	1.4	1.6	1.4	1.8	3.9	4.6	4.0	4.5	3.9	4.9
A 20 2_9.4	9.4	1.2	1.4	1.2	1.6	3.7	4.2	3.8	4.3	3.7	4.7
A 20 2_10.3	10.3	—	—	—	—	—	—	4.1	4.6	4.0	5.0
A 20 2_12.0	12.0	0.77	1.0	0.79	1.2	3.3	3.8	3.4	3.9	3.3	4.3
A 20 2_14.1	14.1	0.97	1.2	0.99	1.4	3.5	4.0	3.6	4.1	3.5	4.5
A 20 2_16.2	16.2	0.82	1.1	0.84	1.3	3.4	3.8	3.4	3.9	3.3	4.3
A 20 2_18.1	18.1	0.67	0.93	0.69	1.1	3.2	3.7	3.3	3.8	3.2	4.2
A 20 2_21.2	21.2	0.62	0.88	0.64	1.1	3.2	3.6	3.2	3.7	3.1	4.1
A 20 2_23.1	23.1	0.57	0.83	0.59	1.0	3.1	3.6	3.2	3.7	3.1	4.1
A 20 2_26.5	26.5	0.52	0.78	0.54	0.98	3.1	3.5	3.1	3.6	3.0	4.0
A 20 2_29.2	29.2	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0
A 20 2_31.3	31.3	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0
A 20 2_35.4	35.4	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0
A 20 2_39.6	39.6	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 20 2_43.2	43.2	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 20 2_48.3	48.3	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 20 2_53.7	53.7	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 20 2_63.1	63.1	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 20 2_71.0	71.0	0.32	0.58	—	—	—	—	2.9	3.4	2.8	3.8
A 20 2_79.9	79.9	0.30	0.56	—	—	—	—	2.9	3.4	2.8	3.8
A 20 2_92.3	92.3	0.29	0.55	—	—	—	—	—	—	—	—
A 20 3_109.2	109.2	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_120.5	120.5	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_129.1	129.1	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_146.1	146.1	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_163.4	163.4	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_178.3	178.3	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_199.2	199.2	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_221.3	221.3	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_260.5	260.5	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_292.8	292.8	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_329.4	329.4	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_380.9	380.9	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8



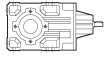


## A 30

	i	J (•10 <sup>-4</sup> ) [kgm <sup>2</sup> ]							
			 IEC						
			63	71	80	90	100	112	
<b>A 30 2_5.4</b>	5.4	4.5	—	—	7.4	7.3	8.6	8.6	6.9
<b>A 30 2_6.4</b>	6.4	3.4	—	—	6.6	6.6	7.8	7.8	6.0
<b>A 30 2_7.0</b>	7.0	2.9	—	—	5.8	5.8	7.0	7.0	5.2
<b>A 30 2_8.5</b>	8.5	2.2	—	—	5.1	5.1	6.3	6.3	4.6
<b>A 30 2_9.3</b>	9.3	1.6	3.1	3.1	4.5	4.4	5.7	5.7	4.0
<b>A 30 2_10.5</b>	10.5	2.3	—	—	5.2	5.1	6.4	6.4	4.6
<b>A 30 2_11.8</b>	11.8	1.1	2.6	2.6	4.0	3.9	5.2	5.2	3.4
<b>A 30 2_13.6</b>	13.6	1.5	—	—	4.4	4.3	5.6	5.6	3.9
<b>A 30 2_16.3</b>	16.3	1.2	—	—	4.1	4.0	5.3	5.3	3.5
<b>A 30 2_18.0</b>	18.0	0.90	2.4	2.4	3.8	3.7	5.0	5.0	3.2
<b>A 30 2_20.5</b>	20.5	0.70	2.2	2.2	3.6	3.5	4.8	4.8	3.1
<b>A 30 2_22.8</b>	22.8	0.60	2.1	2.1	3.5	3.4	4.7	4.7	3.0
<b>A 30 2_26.5</b>	26.5	0.50	2.0	2.0	3.4	3.3	4.6	4.6	2.9
<b>A 30 2_29.3</b>	29.3	0.40	1.9	1.9	3.3	3.2	4.5	4.5	2.8
<b>A 30 2_33.4</b>	33.4	0.35	1.8	1.8	3.2	3.1	4.4	4.4	2.7
<b>A 30 2_36.6</b>	36.6	0.30	1.8	1.8	3.2	3.1	4.4	4.4	2.7
<b>A 30 2_39.3</b>	39.3	0.25	1.7	1.7	3.1	3.0	4.3	4.3	2.6
<b>A 30 2_43.4</b>	43.4	0.20	1.7	1.7	3.1	3.0	4.3	4.3	2.6
<b>A 30 2_48.3</b>	48.3	0.20	1.7	1.7	3.1	3.0	4.3	4.3	2.6
<b>A 30 2_52.7</b>	52.7	0.20	1.7	1.7	3.1	3.0	4.3	4.3	2.5
<b>A 30 2_59.4</b>	59.4	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.5
<b>A 30 2_66.0</b>	66.0	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.5
<b>A 30 2_76.5</b>	76.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.5
<b>A 30 2_86.7</b>	86.7	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.5
<b>A 30 2_97.5</b>	97.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.4
<b>A 30 3_109.1</b>	109.1	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
<b>A 30 3_120.5</b>	120.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
<b>A 30 3_137.4</b>	137.4	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
<b>A 30 3_150.7</b>	150.7	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
<b>A 30 3_161.4</b>	161.4	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
<b>A 30 3_178.5</b>	178.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
<b>A 30 3_198.5</b>	198.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
<b>A 30 3_216.6</b>	216.6	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
<b>A 30 3_244.3</b>	244.3	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
<b>A 30 3_271.5</b>	271.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
<b>A 30 3_314.5</b>	314.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
<b>A 30 3_356.3</b>	356.3	0.06	1.6	1.6	3.0	2.9	4.2	4.2	0.90
<b>A 30 3_400.8</b>	400.8	0.04	1.5	1.6	2.9	2.8	4.1	4.1	0.90




## A 30

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]				
			 NEMA			
			N56C	N140TC	N180TC	
<b>A 30 2_5.4</b>	5.4	4.5	—	—	7.4	6.9
<b>A 30 2_6.4</b>	6.4	3.4	—	—	6.6	6.0
<b>A 30 2_7.0</b>	7.0	2.9	—	—	5.8	5.2
<b>A 30 2_8.5</b>	8.5	2.2	—	—	5.1	4.6
<b>A 30 2_9.3</b>	9.3	1.6	3.1	3.1	4.5	4.0
<b>A 30 2_10.5</b>	10.5	2.3	—	—	5.2	4.6
<b>A 30 2_11.8</b>	11.8	1.1	2.6	2.6	4.0	3.4
<b>A 30 2_13.6</b>	13.6	1.5	—	—	4.4	3.9
<b>A 30 2_16.3</b>	16.3	1.2	—	—	4.1	3.5
<b>A 30 2_18.0</b>	18.0	0.90	2.4	2.4	3.8	3.2
<b>A 30 2_20.5</b>	20.5	0.70	2.2	2.2	3.6	3.1
<b>A 30 2_22.8</b>	22.8	0.60	2.1	2.1	3.5	3.0
<b>A 30 2_26.5</b>	26.5	0.50	2.0	2.0	3.4	2.9
<b>A 30 2_29.3</b>	29.3	0.40	1.9	1.9	3.3	2.8
<b>A 30 2_33.4</b>	33.4	0.35	1.8	1.8	3.2	2.7
<b>A 30 2_36.6</b>	36.6	0.30	1.8	1.8	3.2	2.7
<b>A 30 2_39.3</b>	39.3	0.25	1.7	1.7	3.1	2.6
<b>A 30 2_43.4</b>	43.4	0.20	1.7	1.7	3.1	2.6
<b>A 30 2_48.3</b>	48.3	0.20	1.7	1.7	3.1	2.6
<b>A 30 2_52.7</b>	52.7	0.20	1.7	1.7	3.1	2.5
<b>A 30 2_59.4</b>	59.4	0.10	1.6	1.6	3.0	2.5
<b>A 30 2_66.0</b>	66.0	0.10	1.6	1.6	3.0	2.5
<b>A 30 2_76.5</b>	76.5	0.10	1.6	1.6	3.0	2.5
<b>A 30 2_86.7</b>	86.7	0.10	1.6	1.6	3.0	2.5
<b>A 30 2_97.5</b>	97.5	0.10	1.6	1.6	3.0	2.4
<b>A 30 3_109.1</b>	109.1	0.10	1.6	1.6	3.0	0.90
<b>A 30 3_120.5</b>	120.5	0.10	1.6	1.6	3.0	0.90
<b>A 30 3_137.4</b>	137.4	0.10	1.6	1.6	3.0	0.90
<b>A 30 3_150.7</b>	150.7	0.10	1.6	1.6	3.0	0.90
<b>A 30 3_161.4</b>	161.4	0.10	1.6	1.6	3.0	0.90
<b>A 30 3_178.5</b>	178.5	0.10	1.6	1.6	3.0	0.90
<b>A 30 3_198.5</b>	198.5	0.10	1.6	1.6	3.0	0.90
<b>A 30 3_216.6</b>	216.6	0.10	1.6	1.6	3.0	0.90
<b>A 30 3_244.3</b>	244.3	0.10	1.6	1.6	3.0	0.90
<b>A 30 3_271.5</b>	271.5	0.10	1.6	1.6	3.0	0.90
<b>A 30 3_314.5</b>	314.5	0.10	1.6	1.6	3.0	0.90
<b>A 30 3_356.3</b>	356.3	0.06	1.6	1.6	3.0	0.90
<b>A 30 3_400.8</b>	400.8	0.04	1.5	1.5	2.9	0.90



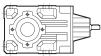


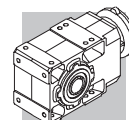
# A 30

		J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]											
		 <b>SERVO</b>											
	i	60A		60B 80A		95A		80C 95B 110A		95C 110B		130A	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 30 2_5.4	5.4	—	—	—	—	—	—	7.4	7.9	7.3	8.3	7.3	8.3
A 30 2_6.4	6.4	—	—	—	—	—	—	6.6	7.1	6.6	7.6	6.6	7.6
A 30 2_7.0	7.0	—	—	—	—	—	—	5.8	6.3	5.8	6.8	5.8	6.8
A 30 2_8.5	8.5	—	—	—	—	—	—	5.1	5.6	5.1	6.1	5.1	6.1
A 30 2_9.3	9.3	1.9	2.1	1.9	2.3	4.4	4.9	4.5	5.0	4.4	5.4	4.4	5.4
A 30 2_10.5	10.5	—	—	—	—	—	—	5.2	5.7	5.1	6.1	5.1	6.1
A 30 2_11.8	11.8	1.4	1.6	1.4	1.8	3.9	4.4	4.0	4.5	3.9	4.9	3.9	4.9
A 30 2_13.6	13.6	—	—	—	—	—	—	4.4	4.9	4.3	5.3	4.3	5.3
A 30 2_16.3	16.3	—	—	—	—	—	—	4.1	4.6	4.0	5.0	4.0	5.0
A 30 2_18.0	18.0	1.2	1.4	1.2	1.6	3.7	4.2	3.8	4.3	3.7	4.7	3.7	4.7
A 30 2_20.5	20.5	0.97	1.2	0.99	1.4	3.5	4.0	3.6	4.1	3.5	4.5	3.5	4.5
A 30 2_22.8	22.8	0.87	1.1	0.89	1.3	3.4	3.9	3.5	4.0	3.4	4.4	3.4	4.4
A 30 2_26.5	26.5	0.77	1.0	0.79	1.2	3.3	3.8	3.4	3.9	3.3	4.3	3.3	4.3
A 30 2_29.3	29.3	0.67	0.93	0.69	1.1	3.2	3.7	3.3	3.8	3.2	4.2	3.2	4.2
A 30 2_33.4	33.4	0.62	0.88	0.64	1.1	3.2	3.6	3.2	3.7	3.1	4.1	3.1	4.1
A 30 2_36.6	36.6	0.57	0.83	0.59	1.0	3.1	3.6	3.2	3.7	3.1	4.1	3.1	4.1
A 30 2_39.3	39.3	0.52	0.78	0.54	0.98	3.1	3.5	3.1	3.6	3.0	4.0	3.0	4.0
A 30 2_43.4	43.4	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0	3.0	4.0
A 30 2_48.3	48.3	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0	3.0	4.0
A 30 2_52.7	52.7	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0	3.0	4.0
A 30 2_59.4	59.4	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	2.9	3.9
A 30 2_66.0	66.0	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	2.9	3.9
A 30 2_76.5	76.5	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	2.9	3.9
A 30 2_86.7	86.7	0.37	0.63	—	—	—	—	3.0	3.5	2.9	3.9	2.9	3.9
A 30 2_97.5	97.5	0.37	0.63	—	—	—	—	3.0	3.5	2.9	3.9	2.9	3.9
A 30 3_109.1	109.1	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_120.5	120.5	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_137.4	137.4	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_150.7	150.7	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_161.4	161.4	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_178.5	178.5	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_198.5	198.5	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_216.6	216.6	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_244.3	244.3	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_271.5	271.5	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_314.5	314.5	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_356.3	356.3	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—
A 30 3_400.8	400.8	0.31	0.57	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8	—	—



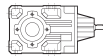


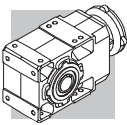
## A 35

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]								
			IEC 							
			63	71	80	90	100	112	132	
<b>A 35 2_5.4</b>	5.4	7.3	—	—	10	9.9	11	11	24	9.4
<b>A 35 2_6.4</b>	6.4	5.4	—	—	8.1	8.0	9.2	9.2	22	7.4
<b>A 35 2_7.0</b>	7.0	4.6	—	—	7.3	7.2	8.4	8.4	21	6.6
<b>A 35 2_8.5</b>	8.5	3.3	—	—	6.1	5.9	7.1	7.1	20	5.4
<b>A 35 2_9.3</b>	9.3	2.8	3.5	3.5	5.6	5.4	6.6	6.6	19	4.9
<b>A 35 2_10.6</b>	10.6	2.1	2.9	2.9	4.9	4.8	6.0	6.0	19	4.2
<b>A 35 2_11.8</b>	11.8	1.8	2.5	2.5	4.6	4.4	5.7	5.7	18	3.9
<b>A 35 2_13.1</b>	13.1	3.0	—	—	5.7	5.6	6.8	6.8	—	5.0
<b>A 35 2_15.5</b>	15.5	2.2	—	—	5.0	4.9	6.1	6.1	—	4.3
<b>A 35 2_17.0</b>	17.0	2.0	—	—	4.7	4.6	5.8	5.8	—	4.0
<b>A 35 2_20.4</b>	20.4	1.6	—	—	4.3	4.2	5.4	5.4	—	3.6
<b>A 35 2_22.5</b>	22.5	1.3	2.0	2.0	4.1	3.9	5.1	5.1	—	3.4
<b>A 35 2_25.7</b>	25.7	0.97	1.7	1.7	3.7	3.6	4.8	4.8	—	3.0
<b>A 35 2_28.4</b>	28.4	0.86	1.6	1.6	3.6	3.5	4.7	4.7	—	2.9
<b>A 35 2_33.2</b>	33.2	0.69	1.4	1.4	3.5	3.3	4.5	4.5	—	2.8
<b>A 35 2_36.6</b>	36.6	0.58	1.3	1.3	3.3	3.2	4.4	4.4	—	2.6
<b>A 35 2_41.8</b>	41.8	0.48	1.2	1.2	3.2	3.1	4.3	4.3	—	2.5
<b>A 35 2_45.8</b>	45.8	0.42	1.1	1.1	3.2	3.1	4.3	4.3	—	2.5
<b>A 35 2_49.1</b>	49.1	0.38	1.1	1.1	3.1	3.0	4.2	4.2	—	2.4
<b>A 35 2_54.3</b>	54.3	0.33	1.1	1.0	3.1	3.0	4.2	4.2	—	2.4
<b>A 35 2_60.4</b>	60.4	0.29	1.0	1.0	3.0	2.9	4.1	4.1	—	2.3
<b>A 35 2_65.8</b>	65.8	0.25	1.0	1.0	3.0	2.9	4.1	4.1	—	2.3
<b>A 35 2_74.3</b>	74.3	0.21	0.95	0.93	3.0	2.8	4.1	4.1	—	2.3
<b>A 35 2_82.5</b>	82.5	0.18	0.92	0.90	2.9	2.8	4.0	4.0	—	2.2
<b>A 35 2_95.6</b>	95.6	0.15	0.88	0.87	2.9	2.8	4.0	4.0	—	2.2
<b>A 35 3_105.5</b>	105.5	0.11	0.89	0.87	2.9	2.8	4.0	4.0	—	0.80
<b>A 35 3_116.9</b>	116.9	0.11	0.88	0.87	2.9	2.8	4.0	4.0	—	0.79
<b>A 35 3_136.3</b>	136.3	0.10	0.87	0.86	2.9	2.8	4.0	4.0	—	0.78
<b>A 35 3_150.6</b>	150.6	0.09	0.86	0.85	2.9	2.8	4.0	4.0	—	0.77
<b>A 35 3_171.8</b>	171.8	0.08	0.86	0.84	2.9	2.8	4.0	4.0	—	0.77
<b>A 35 3_188.3</b>	188.3	0.08	0.85	0.84	2.9	2.7	4.0	4.0	—	0.76
<b>A 35 3_201.8</b>	201.8	0.08	0.85	0.84	2.9	2.7	4.0	4.0	—	0.76
<b>A 35 3_223.2</b>	223.2	0.08	0.85	0.84	2.9	2.7	4.0	4.0	—	0.76
<b>A 35 3_248.1</b>	248.1	0.07	0.85	0.83	2.9	2.7	4.0	4.0	—	0.76
<b>A 35 3_270.7</b>	270.7	0.07	0.84	0.83	2.9	2.7	4.0	4.0	—	0.75
<b>A 35 3_305.4</b>	305.4	0.07	0.84	0.83	2.9	2.7	4.0	4.0	—	0.75
<b>A 35 3_339.3</b>	339.3	0.07	0.84	0.83	2.9	2.7	4.0	4.0	—	0.75
<b>A 35 3_393.2</b>	393.2	0.07	0.84	0.83	2.9	2.7	3.9	3.9	—	0.75




# A 35

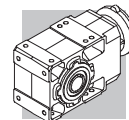
	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]					
			 NEMA				
			N56C	N140TC	N180TC	N210TC	
A 35 2_5.4	5.4	7.3	—	—	10	24	9.4
A 35 2_6.4	6.4	5.4	—	—	8.1	22	7.4
A 35 2_7.0	7.0	4.6	—	—	7.3	21	6.6
A 35 2_8.5	8.5	3.3	—	—	6.1	20	5.4
A 35 2_9.3	9.3	2.8	3.5	3.5	5.6	19	4.9
A 35 2_10.6	10.6	2.1	2.9	2.9	4.9	19	4.2
A 35 2_11.8	11.8	1.8	2.5	2.5	4.6	18	3.9
A 35 2_13.1	13.1	3.0	—	—	5.7	—	5.0
A 35 2_15.5	15.5	2.2	—	—	5.0	—	4.3
A 35 2_17.0	17.0	2.0	—	—	4.7	—	4.0
A 35 2_20.4	20.4	1.6	—	—	4.3	—	3.6
A 35 2_22.5	22.5	1.3	2.0	2.0	4.1	—	3.4
A 35 2_25.7	25.7	0.97	1.7	1.7	3.7	—	3.0
A 35 2_28.4	28.4	0.86	1.6	1.6	3.6	—	2.9
A 35 2_33.2	33.2	0.69	1.4	1.4	3.5	—	2.8
A 35 2_36.6	36.6	0.58	1.3	1.3	3.3	—	2.6
A 35 2_41.8	41.8	0.48	1.2	1.2	3.2	—	2.5
A 35 2_45.8	45.8	0.42	1.1	1.1	3.2	—	2.5
A 35 2_49.1	49.1	0.38	1.1	1.1	3.1	—	2.4
A 35 2_54.3	54.3	0.33	1.1	1.1	3.1	—	2.4
A 35 2_60.4	60.4	0.29	1.0	1.0	3.0	—	2.3
A 35 2_65.8	65.8	0.25	1.0	1.0	3.0	—	2.3
A 35 2_74.3	74.3	0.21	0.95	0.95	3.0	—	2.3
A 35 2_82.5	82.5	0.18	0.92	0.92	2.9	—	2.2
A 35 2_95.6	95.6	0.15	0.88	0.88	2.9	—	2.2
A 35 3_105.5	105.5	0.11	0.89	0.89	2.9	—	0.80
A 35 3_116.9	116.9	0.11	0.88	0.88	2.9	—	0.79
A 35 3_136.3	136.3	0.10	0.87	0.87	2.9	—	0.78
A 35 3_150.6	150.6	0.09	0.86	0.86	2.9	—	0.77
A 35 3_171.8	171.8	0.08	0.86	0.86	2.9	—	0.77
A 35 3_188.3	188.3	0.08	0.85	0.85	2.9	—	0.76
A 35 3_201.8	201.8	0.08	0.85	0.85	2.9	—	0.76
A 35 3_223.2	223.2	0.08	0.85	0.85	2.9	—	0.76
A 35 3_248.1	248.1	0.07	0.85	0.85	2.9	—	0.76
A 35 3_270.7	270.7	0.07	0.84	0.84	2.9	—	0.75
A 35 3_305.4	305.4	0.07	0.84	0.84	2.9	—	0.75
A 35 3_339.3	339.3	0.07	0.84	0.84	2.9	—	0.75
A 35 3_393.2	393.2	0.07	0.84	0.84	2.9	—	0.75





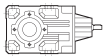
# A 35

		J (•10 <sup>-4</sup> ) [kgm <sup>2</sup> ]											
		 <b>SERVO</b>											
	i	60A		60B 80A		95A		80C 95B 110A		95C 110B		130A	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 35 2_5.4	5.4	—	—	—	—	—	—	10	11	9.9	10.9	9.9	11
A 35 2_6.4	6.4	—	—	—	—	—	—	8.1	8.6	8.0	9.0	8.0	9.0
A 35 2_7.0	7.0	—	—	—	—	—	—	7.3	7.8	7.2	8.2	7.2	8.2
A 35 2_8.5	8.5	—	—	—	—	—	—	6.1	6.6	5.9	6.9	5.9	6.9
A 35 2_9.3	9.3	3.1	3.3	3.1	3.5	5.6	6.1	5.6	6.1	5.4	6.4	5.4	6.4
A 35 2_10.6	10.6	2.4	2.6	2.4	2.8	4.9	5.4	4.9	5.4	4.8	5.8	4.8	5.8
A 35 2_11.8	11.8	2.1	2.3	2.1	2.5	4.6	5.1	4.6	5.1	4.4	5.4	4.4	5.4
A 35 2_13.1	13.1	—	—	—	—	—	—	5.7	6.2	5.6	6.6	5.6	6.6
A 35 2_15.5	15.5	—	—	—	—	—	—	5.0	5.5	4.9	5.9	4.9	5.9
A 35 2_17.0	17.0	—	—	—	—	—	—	4.7	5.2	4.6	5.6	4.6	5.6
A 35 2_20.4	20.4	—	—	—	—	—	—	4.3	4.8	4.2	5.2	4.2	5.2
A 35 2_22.5	22.5	1.6	1.8	1.6	2.0	4.1	4.6	4.1	4.6	3.9	4.9	3.9	4.9
A 35 2_25.7	25.7	1.2	1.5	1.3	1.7	3.8	4.2	3.7	4.2	3.6	4.6	3.6	4.6
A 35 2_28.4	28.4	1.1	1.4	1.2	1.6	3.7	4.1	3.6	4.1	3.5	4.5	3.5	4.5
A 35 2_33.2	33.2	0.96	1.2	0.98	1.4	3.5	3.9	3.5	4.0	3.3	4.3	3.3	4.3
A 35 2_36.6	36.6	0.85	1.1	0.87	1.3	3.4	3.8	3.3	3.8	3.2	4.2	3.2	4.2
A 35 2_41.8	41.8	0.75	1.0	0.77	1.2	3.3	3.7	3.2	3.7	3.1	4.1	3.1	4.1
A 35 2_45.8	45.8	0.69	0.95	0.71	1.1	3.2	3.7	3.2	3.7	3.1	4.1	3.1	4.1
A 35 2_49.1	49.1	0.65	0.91	0.67	1.1	3.2	3.6	3.1	3.6	3.0	4.0	3.0	4.0
A 35 2_54.3	54.3	0.60	0.86	0.62	1.1	3.2	3.6	3.1	3.6	3.0	4.0	3.0	4.0
A 35 2_60.4	60.4	0.56	0.82	0.58	1.0	3.1	3.5	3.0	3.5	2.9	3.9	2.9	3.9
A 35 2_65.8	65.8	0.52	0.78	0.54	0.98	3.1	3.5	3.0	3.5	2.9	3.9	2.9	3.9
A 35 2_74.3	74.3	0.48	0.74	0.50	0.94	3.0	3.5	3.0	3.5	2.8	3.8	2.8	3.8
A 35 2_82.5	82.5	0.45	0.71	0.47	0.91	3.0	3.4	2.9	3.4	2.8	3.8	2.8	3.8
A 35 2_95.6	95.6	0.42	0.68	0.44	0.88	3.0	3.4	2.9	3.4	2.8	3.8	2.8	3.8
A 35 3_105.5	105.5	0.38	0.64	0.40	0.84	2.9	3.4	2.9	3.4	2.8	3.8	—	—
A 35 3_116.9	116.9	0.38	0.64	0.40	0.84	2.9	3.4	2.9	3.4	2.8	3.8	—	—
A 35 3_136.3	136.3	0.37	0.63	0.39	0.83	2.9	3.4	2.9	3.4	2.8	3.8	—	—
A 35 3_150.6	150.6	0.36	0.62	0.38	0.82	2.9	3.3	2.9	3.4	2.8	3.8	—	—
A 35 3_171.8	171.8	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.8	3.8	—	—
A 35 3_188.3	188.3	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.7	3.7	—	—
A 35 3_201.8	201.8	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.7	3.7	—	—
A 35 3_223.2	223.2	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.7	3.7	—	—
A 35 3_248.1	248.1	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
A 35 3_270.7	270.7	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
A 35 3_305.4	305.4	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
A 35 3_339.3	339.3	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
A 35 3_393.2	393.2	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—





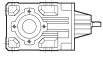


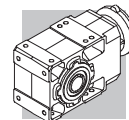
# A 41

	i	J (•10 <sup>-4</sup> ) [kgm <sup>2</sup> ]								
			 IEC							
			63	71	80	90	100	112	132	
A 41 2_5.2	5.2	13	—	—	16	16	17	17	32	23
A 41 2_7.1	7.1	7.3	—	—	10	10	11	11	26	18
A 41 2_8.3	8.3	5.9	—	—	8.8	8.7	10	10	25	16
A 41 2_9.2	9.2	4.5	—	—	7.4	7.3	8.6	8.6	23	15
A 41 2_10.1	10.1	5.9	—	—	8.8	8.7	10	10	25	16
A 41 2_11.7	11.7	2.9	4.4	4.4	5.8	5.7	7.0	7.0	22	13
A 41 2_13.8	13.8	3.6	—	—	6.5	6.4	7.7	7.7	23	14
A 41 2_16.1	16.1	2.9	—	—	5.8	5.7	7.0	7.0	22	13
A 41 2_17.8	17.8	2.2	—	—	5.1	5.0	6.3	6.3	21	11
A 41 2_22.7	22.7	1.5	3.0	3.0	4.4	4.3	5.6	5.6	20	11
A 41 2_28.3	28.3	1.1	2.6	2.6	4.0	3.9	5.2	5.2	20	10
A 41 2_35.9	35.9	1.7	3.2	3.2	4.6	4.5	5.8	5.8	20	9.8
A 41 2_45.1	45.1	1.5	3.0	3.0	4.4	4.3	5.6	5.6	20	9.6
A 41 2_48.3	48.3	1.4	2.9	2.9	4.3	4.2	5.5	5.5	—	9.5
A 41 2_53.1	53.1	1.4	2.9	2.9	4.3	4.2	5.5	5.5	—	9.5
A 41 2_58.8	58.8	1.3	2.8	2.8	4.2	4.1	5.4	5.4	—	9.4
A 41 2_64.2	64.2	1.3	2.8	2.8	4.2	4.1	5.4	5.4	—	9.4
A 41 2_71.3	71.3	1.2	2.7	2.7	4.1	4.0	5.3	5.3	—	9.3
A 41 2_79.2	79.2	1.2	2.7	2.7	4.1	4.0	5.3	5.3	—	9.3
A 41 3_92.8	92.8	1.1	2.6	2.6	4.0	3.9	5.2	5.2	—	9.2
A 41 3_115.9	115.9	0.20	1.7	1.7	2.9	3.0	4.3	4.3	—	2.1
A 41 3_146.9	146.9	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.1
A 41 3_184.4	184.4	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.1
A 41 3_197.5	197.5	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.0
A 41 3_217.4	217.4	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.0
A 41 3_240.6	240.6	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.0
A 41 3_262.5	262.5	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.0
A 41 3_291.7	291.7	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.0
A 41 3_324.2	324.2	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.0
A 41 3_376.8	376.8	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.0




# A 41

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]					
			 NEMA				
			N56C	N140TC	N180TC	N210TC	
A 41 2_5.2	5.2	13	—	—	16	32	23
A 41 2_7.1	7.1	7.3	—	—	10	26	18
A 41 2_8.3	8.3	5.9	—	—	8.8	25	16
A 41 2_9.2	9.2	4.5	—	—	7.4	23	15
A 41 2_10.1	10.1	5.9	—	—	8.8	25	16
A 41 2_11.7	11.7	2.9	4.4	4.4	5.8	22	13
A 41 2_13.8	13.8	3.6	—	—	6.5	23	14
A 41 2_16.1	16.1	2.9	—	—	5.8	22	13
A 41 2_17.8	17.8	2.2	—	—	5.1	21	11
A 41 2_22.7	22.7	1.5	3.0	3.0	4.4	20	11
A 41 2_28.3	28.3	1.1	2.6	2.6	4.0	20	10
A 41 2_35.9	35.9	1.7	3.2	3.2	4.6	20	9.8
A 41 2_45.1	45.1	1.5	3.0	3.0	4.4	20	9.6
A 41 2_48.3	48.3	1.4	2.9	2.9	4.3	—	9.5
A 41 2_53.1	53.1	1.4	2.9	2.9	4.3	—	9.5
A 41 2_58.8	58.8	1.3	2.8	2.8	4.2	—	9.4
A 41 2_64.2	64.2	1.3	2.8	2.8	4.2	—	9.4
A 41 2_71.3	71.3	1.2	2.7	2.7	4.1	—	9.3
A 41 2_79.2	79.2	1.2	2.7	2.7	4.1	—	9.3
A 41 3_92.8	92.8	1.1	2.6	2.6	4.0	—	9.2
A 41 3_115.9	115.9	0.20	1.7	1.7	2.9	—	2.1
A 41 3_146.9	146.9	0.10	1.6	1.6	2.8	—	2.1
A 41 3_184.4	184.4	0.10	1.6	1.6	2.8	—	2.1
A 41 3_197.5	197.5	0.10	1.6	1.6	2.8	—	2.0
A 41 3_217.4	217.4	0.10	1.6	1.6	2.8	—	2.0
A 41 3_240.6	240.6	0.10	1.6	1.6	2.8	—	2.0
A 41 3_262.5	262.5	0.10	1.6	1.6	2.8	—	2.0
A 41 3_291.7	291.7	0.10	1.6	1.6	2.8	—	2.0
A 41 3_324.2	324.2	0.10	1.6	1.6	2.8	—	2.0
A 41 3_376.8	376.8	0.10	1.6	1.6	2.8	—	2.0



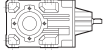


# A 41

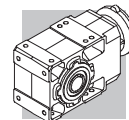
		J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]																	
		 SERVO																	
	i	60A		60B 80A		80B		95A		80C 95B 110A		95C 110B		130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 41 2_5.2	5.2	—	—	—	—	—	—	—	—	16	16.5	16	17	16	17	30	32	32	37
A 41 2_7.1	7.1	—	—	—	—	—	—	—	—	10	10.5	10	11	10	11	24	27	26	31
A 41 2_8.3	8.3	—	—	—	—	—	—	—	—	8.8	9.3	8.7	9.7	8.7	9.7	23	25	25	30
A 41 2_9.2	9.2	—	—	—	—	—	—	—	—	7.4	7.9	7.3	8.3	7.3	8.3	21	24	23	28
A 41 2_10.1	10.1	—	—	—	—	—	—	—	—	8.8	9.3	8.7	9.7	8.7	9.7	23	25	25	30
A 41 2_11.7	11.7	—	—	—	—	5.7	6.2	5.7	6.2	5.8	6.3	5.7	6.7	5.7	6.7	20	22	22	27
A 41 2_13.8	13.8	—	—	—	—	—	—	—	—	6.5	7.0	6.4	7.4	6.4	7.4	21	23	23	28
A 41 2_16.1	16.1	—	—	—	—	—	—	—	—	5.8	6.3	5.7	6.7	5.7	6.7	20	22	22	27
A 41 2_17.8	17.8	—	—	—	—	—	—	—	—	5.1	5.6	5.0	6.0	5.0	6.0	19	22	21	26
A 41 2_22.7	22.7	—	—	—	—	4.3	4.8	4.3	4.8	4.4	4.9	4.3	5.3	4.3	5.3	18	21	20	25
A 41 2_28.3	28.3	—	—	—	—	3.9	4.4	3.9	4.4	4.0	4.5	3.9	4.9	3.9	4.9	18	21	20	25
A 41 2_35.9	35.9	—	—	—	—	4.5	5.0	4.5	5.0	4.6	5.1	4.5	5.5	4.5	5.5	19	21	20	25
A 41 2_45.1	45.1	—	—	—	—	4.3	4.8	4.3	4.8	4.4	4.9	4.3	5.3	4.3	5.3	18	21	20	25
A 41 2_48.3	48.3	—	—	—	—	4.2	4.7	4.2	4.7	4.3	4.8	4.2	5.2	4.2	5.2	—	—	—	—
A 41 2_53.1	53.1	—	—	—	—	4.2	4.7	4.2	4.7	4.3	4.8	4.2	5.2	4.2	5.2	—	—	—	—
A 41 2_58.8	58.8	—	—	—	—	4.1	4.6	4.1	4.6	4.2	4.7	4.1	5.1	4.1	5.1	—	—	—	—
A 41 2_64.2	64.2	—	—	—	—	4.1	4.6	4.1	4.6	4.2	4.7	4.1	5.1	4.1	5.1	—	—	—	—
A 41 2_71.3	71.3	—	—	—	—	4.0	4.5	4.0	4.5	4.1	4.6	4.0	5.0	4.0	5.0	—	—	—	—
A 41 2_79.2	79.2	—	—	—	—	4.0	4.5	4.0	4.5	4.1	4.6	4.0	5.0	4.0	5.0	—	—	—	—
A 41 3_92.8	92.8	1.4	1.6	1.4	1.8	—	—	3.9	4.4	4.0	4.5	3.9	4.9	—	—	—	—	—	—
A 41 3_115.9	115.9	0.47	0.73	0.49	0.93	—	—	3.0	3.5	2.9	3.4	3.0	4.0	—	—	—	—	—	—
A 41 3_146.9	146.9	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_184.4	184.4	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_197.5	197.5	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_217.4	217.4	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_240.6	240.6	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_262.5	262.5	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_291.7	291.7	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_324.2	324.2	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_376.8	376.8	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—





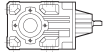
## A 50

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]										
			 IEC									
			63	71	80	90	100	112	132	160	180	
<b>A 50 2_7.7</b>	7.7	15	—	—	18	18	19	19	34	93	91	24
<b>A 50 2_9.7</b>	9.7	10	—	—	13	13	14	14	29	89	86	19
<b>A 50 2_13.1</b>	13.1	6.3	—	—	9.2	9.1	10	10	25	85	82	15
<b>A 50 2_16.6</b>	16.6	4.2	—	—	7.0	7.0	8.2	8.2	23	82	80	13
<b>A 50 2_20.9</b>	20.9	2.8	4.2	4.2	5.7	5.6	6.9	6.9	22	81	79	12
<b>A 50 3_24.0</b>	24.0	6.0	—	—	8.9	8.8	10	10	25	84	82	15
<b>A 50 3_26.4</b>	26.4	5.8	—	—	8.7	8.6	9.9	9.9	25	84	82	15
<b>A 50 3_32.4</b>	32.4	4.0	—	—	6.8	6.8	8.1	8.1	23	82	80	13
<b>A 50 3_35.6</b>	35.6	3.9	—	—	6.7	6.7	8.0	8.0	23	82	80	13
<b>A 50 3_40.9</b>	40.9	2.7	—	—	5.6	5.5	6.8	6.8	22	81	79	12
<b>A 50 3_45.0</b>	45.0	2.6	—	—	5.5	5.4	6.7	6.7	22	81	79	12
<b>A 50 3_51.7</b>	51.7	1.9	3.4	3.4	4.7	4.7	6.0	6.0	21	80	78	11
<b>A 50 3_56.8</b>	56.8	1.9	3.3	3.3	4.7	4.6	5.9	5.9	21	80	78	11
<b>A 50 3_63.9</b>	63.9	1.4	2.9	2.8	4.2	4.2	5.5	5.5	20	80	77	11
<b>A 50 3_70.2</b>	70.2	1.4	2.8	2.8	4.2	4.1	5.4	5.4	20	80	77	10
<b>A 50 3_81.5</b>	81.5	0.90	2.4	2.4	3.8	3.7	5.0	5.0	20	79	77	10
<b>A 50 3_89.5</b>	89.5	0.90	2.4	2.4	3.7	3.7	5.0	5.0	20	79	77	10
<b>A 50 3_99.5</b>	99.5	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	79	77	9.7
<b>A 50 3_109.4</b>	109.4	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	79	77	9.7
<b>A 50 3_118.0</b>	118.0	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	9.6
<b>A 50 3_129.7</b>	129.7	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	9.6
<b>A 50 3_140.6</b>	140.6	0.40	1.8	1.8	3.2	3.2	4.4	4.4	—	—	—	9.4
<b>A 50 3_154.6</b>	154.6	0.40	1.8	1.8	3.2	3.2	4.4	4.4	—	—	—	9.4
<b>A 50 3_173.4</b>	173.4	0.30	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	9.3
<b>A 50 3_190.6</b>	190.6	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	9.3

Para obter os valores do momento de inércia de redutores com 4 estágios, entre em contato com o nosso Departamento de Assistência Técnica.




## A 50

	i	J (•10 <sup>-4</sup> ) [kgm <sup>2</sup> ]							
			NEMA 						
			N56C	N140TC	N180TC	N210TC	N250TC		N280TC
<b>A 50 2_7.7</b>	7.7	15	—	—	18	34	93	91	24
<b>A 50 2_9.7</b>	9.7	10	—	—	13	29	89	86	19
<b>A 50 2_13.1</b>	13.1	6.3	—	—	9.2	25	85	82	15
<b>A 50 2_16.6</b>	16.6	4.2	—	—	7.0	23	82	80	13
<b>A 50 2_20.9</b>	20.9	2.8	4.2	4.2	5.7	22	81	79	12
<b>A 50 3_24.0</b>	24.0	6.0	—	—	8.9	25	84	82	15
<b>A 50 3_26.4</b>	26.4	5.8	—	—	8.7	25	84	82	15
<b>A 50 3_32.4</b>	32.4	4.0	—	—	6.8	23	82	80	13
<b>A 50 3_35.6</b>	35.6	3.9	—	—	6.7	23	82	80	13
<b>A 50 3_40.9</b>	40.9	2.7	—	—	5.6	22	81	79	12
<b>A 50 3_45.0</b>	45.0	2.6	—	—	5.5	22	81	79	12
<b>A 50 3_51.7</b>	51.7	1.9	3.4	3.4	4.7	21	80	78	11
<b>A 50 3_56.8</b>	56.8	1.9	3.3	3.3	4.7	21	80	78	11
<b>A 50 3_63.9</b>	63.9	1.4	2.9	2.9	4.2	20	80	77	11
<b>A 50 3_70.2</b>	70.2	1.4	2.8	2.8	4.2	20	80	77	10
<b>A 50 3_81.5</b>	81.5	0.90	2.4	2.4	3.8	20	79	77	10
<b>A 50 3_89.5</b>	89.5	0.90	2.4	2.4	3.7	20	79	77	10
<b>A 50 3_99.5</b>	99.5	0.60	2.1	2.1	3.5	20	79	77	9.7
<b>A 50 3_109.4</b>	109.4	0.60	2.1	2.1	3.5	20	79	77	9.7
<b>A 50 3_118.0</b>	118.0	0.50	2.0	2.0	3.4	—	—	—	9.6
<b>A 50 3_129.7</b>	129.7	0.50	2.0	2.0	3.4	—	—	—	9.6
<b>A 50 3_140.6</b>	140.6	0.40	1.8	1.8	3.2	—	—	—	9.4
<b>A 50 3_154.6</b>	154.6	0.40	1.8	1.8	3.2	—	—	—	9.4
<b>A 50 3_173.4</b>	173.4	0.30	1.7	1.7	3.1	—	—	—	9.3
<b>A 50 3_190.6</b>	190.6	0.20	1.7	1.7	3.1	—	—	—	9.3

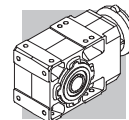
Para obter os valores do momento de inércia de redutores com 4 estágios, entre em contato com o nosso Departamento de Assistência Técnica.





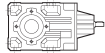
## A 50

		J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]									
		 <b>SERVO</b>									
	i	80B 95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 50 2_7.7	7.7	—	—	18	19	18	19	32	34	34	39
A 50 2_9.7	9.7	—	—	13	14	13	14	27	29	29	34
A 50 2_13.1	13.1	—	—	9.2	9.7	9.1	10	23	26	25	30
A 50 2_16.6	16.6	—	—	7.0	7.5	7.0	8.0	21	24	23	28
A 50 2_20.9	20.9	5.6	6.1	5.7	6.2	5.6	6.6	20	22	22	27
A 50 3_24.0	24.0	—	—	8.9	9.4	8.8	9.8	23	25	25	30
A 50 3_26.4	26.4	—	—	8.7	9.2	8.6	9.6	23	25	25	30
A 50 3_32.4	32.4	—	—	6.8	7.3	6.8	7.8	21	23	23	28
A 50 3_35.6	35.6	—	—	6.7	7.2	6.7	7.7	21	23	23	28
A 50 3_40.9	40.9	—	—	5.6	6.1	5.5	6.5	20	22	22	27
A 50 3_45.0	45.0	—	—	5.5	6.0	5.4	6.4	20	22	22	27
A 50 3_51.7	51.7	4.7	5.1	4.7	5.2	4.7	5.7	19	21	21	26
A 50 3_56.8	56.8	4.7	5.1	4.7	5.2	4.6	5.6	19	21	21	26
A 50 3_63.9	63.9	4.2	4.7	4.2	5.2	4.2	5.2	18	21	20	25
A 50 3_70.2	70.2	4.2	4.7	4.2	5.2	4.1	5.1	18	21	20	25
A 50 3_81.5	81.5	3.7	4.1	3.8	4.3	3.7	4.7	18	20	20	25
A 50 3_89.5	89.5	3.7	4.1	3.7	4.2	3.7	4.7	18	20	20	25
A 50 3_99.5	99.5	3.4	3.9	3.5	4.0	3.4	4.4	18	20	20	25
A 50 3_109.4	109.4	3.4	3.9	3.5	4.0	3.4	4.4	18	20	20	25
A 50 3_118.0	118.0	3.3	3.8	3.4	4.0	3.3	4.3	—	—	—	—
A 50 3_129.7	129.7	3.3	3.8	3.4	4.0	3.3	4.3	—	—	—	—
A 50 3_140.6	140.6	3.2	3.7	3.2	3.7	3.2	4.2	—	—	—	—
A 50 3_154.6	154.6	3.2	3.7	3.2	3.7	3.2	4.2	—	—	—	—
A 50 3_173.4	173.4	3.1	3.6	3.1	3.6	3.0	4.0	—	—	—	—
A 50 3_190.6	190.6	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—

Para obter os valores do momento de inércia de redutores com 4 estágios, entre em contato com o nosso Departamento de Assistência Técnica.



## A 55



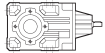
	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]											
			 IEC										
			63	71	80	90	100	112	132	160	180		
<b>A 55 2_4.9</b>	4.9	61	—	—	—	—	—	—	—	77	123	120	70
<b>A 55 2_6.4</b>	6.4	41	—	—	—	—	—	—	—	57	103	100	50
<b>A 55 2_8.5</b>	8.5	26	—	—	—	—	—	—	—	42	88	85	35
<b>A 55 2_10.4</b>	10.4	19	—	—	—	—	—	—	—	35	81	78	28
<b>A 55 2_13.1</b>	13.1	12	—	—	14	14	17	17	28	74	72	21	
<b>A 55 2_15.7</b>	15.7	8.9	—	—	11	11	14	14	25	71	68	18	
<b>A 55 2_19.2</b>	19.2	6.2	—	—	8.6	8.5	11	11	23	68	66	15	
<b>A 55 3_23.8</b>	23.8	11	—	—	13	13	16	16	27	73	70	20	
<b>A 55 3_29.9</b>	29.9	7.9	—	—	10	10	13	13	24	70	67	17	
<b>A 55 3_40.3</b>	40.3	5.3	—	—	7.8	7.6	10	10	22	68	65	14	
<b>A 55 3_51.0</b>	51.0	3.6	—	—	6.0	5.9	8.6	8.6	20	66	63	13	
<b>A 55 3_64.3</b>	64.3	2.6	3.1	3.0	5.1	5.0	7.7	7.7	19	65	62	12	
<b>A 55 3_79.5</b>	79.5	2.0	2.4	2.4	4.5	4.4	7.1	7.1	18	64	62	11	
<b>A 55 3_101.4</b>	101.4	1.3	1.8	1.8	3.8	3.7	6.5	6.5	18	64	61	10	
<b>A 55 3_123.9</b>	123.9	1.0	1.5	1.5	3.6	3.4	6.2	6.2	17	63	61	10	
<b>A 55 3_132.7</b>	132.7	0.71	1.4	1.4	3.5	3.3	6.1	6.1	—	—	—	9.5	
<b>A 55 3_146.8</b>	146.8	0.66	1.4	1.4	3.4	3.3	6.0	6.0	—	—	—	9.4	
<b>A 55 3_160.4</b>	160.4	0.58	1.3	1.3	3.3	3.2	6.0	6.0	—	—	—	9.4	
<b>A 55 3_175.0</b>	175.0	0.50	1.2	1.2	3.3	3.1	5.9	5.9	—	—	—	9.3	
<b>A 55 3_194.2</b>	194.2	0.43	1.2	1.2	3.2	3.1	5.8	5.8	—	—	—	9.2	

Para obter os valores do momento de inércia de redutores com 4 estágios, entre em contato com o nosso Departamento de Assistência Técnica.






## A 55

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]							
			 NEMA						
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	
<b>A 55 2_4.9</b>	4.9	61	—	—	—	77	123	120	70
<b>A 55 2_6.4</b>	6.4	41	—	—	—	57	103	100	50
<b>A 55 2_8.5</b>	8.5	26	—	—	—	42	88	85	35
<b>A 55 2_10.4</b>	10.4	19	—	—	—	35	81	78	28
<b>A 55 2_13.1</b>	13.1	12	—	—	14	28	74	72	21
<b>A 55 2_15.7</b>	15.7	8.9	—	—	11	25	71	68	18
<b>A 55 2_19.2</b>	19.2	6.2	—	—	8.6	23	68	66	15
<b>A 55 3_23.8</b>	23.8	11	—	—	13	27	73	70	20
<b>A 55 3_29.9</b>	29.9	7.9	—	—	10	24	70	67	17
<b>A 55 3_40.3</b>	40.3	5.3	—	—	7.8	22	68	65	14
<b>A 55 3_51.0</b>	51.0	3.6	—	—	6.0	20	66	63	13
<b>A 55 3_64.3</b>	64.3	2.6	3.1	3.1	5.1	19	65	62	12
<b>A 55 3_79.5</b>	79.5	2.0	2.4	2.4	4.5	18	64	62	11
<b>A 55 3_101.4</b>	101.4	1.3	1.8	1.8	3.8	18	64	61	10
<b>A 55 3_123.9</b>	123.9	1.0	1.5	1.5	3.6	17	63	61	10
<b>A 55 3_132.7</b>	132.7	0.71	1.4	1.4	3.5	—	—	—	9.5
<b>A 55 3_146.8</b>	146.8	0.66	1.4	1.4	3.4	—	—	—	9.4
<b>A 55 3_160.4</b>	160.4	0.58	1.3	1.3	3.3	—	—	—	9.4
<b>A 55 3_175.0</b>	175.0	0.50	1.2	1.2	3.3	—	—	—	9.3
<b>A 55 3_194.2</b>	194.2	0.43	1.2	1.2	3.2	—	—	—	9.2

Para obter os valores do momento de inércia de redutores com 4 estágios, entre em contato com o nosso Departamento de Assistência Técnica.





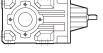
## A 55

		J (•10 <sup>-4</sup> ) [kgm <sup>2</sup> ]									
		 <b>SERVO</b>									
	i	80B 95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 55 2_4.9	4.9	—	—	—	—	—	—	78	80	77	82
A 55 2_6.4	6.4	—	—	—	—	—	—	58	60	57	62
A 55 2_8.5	8.5	—	—	—	—	—	—	43	45	42	47
A 55 2_10.4	10.4	—	—	—	—	—	—	36	38	35	40
A 55 2_13.1	13.1	—	—	14	15	14	15	29	31	28	33
A 55 2_15.7	15.7	—	—	11	12	11	12	26	28	25	30
A 55 2_19.2	19.2	—	—	8.6	9.1	8.5	9.5	23	26	23	28
A 55 3_23.8	23.8	—	—	13	14	13	14	28	30	27	32
A 55 3_29.9	29.9	—	—	10	11	10	11	25	27	24	29
A 55 3_40.3	40.3	—	—	7.8	8.3	7.6	8.6	22	25	22	27
A 55 3_51.0	51.0	—	—	6.0	6.5	5.9	6.9	21	23	20	25
A 55 3_64.3	64.3	5.4	5.9	5.1	5.6	5.0	6.0	20	22	19	24
A 55 3_79.5	79.5	4.8	5.3	4.5	5.0	4.4	5.4	19	21	18	23
A 55 3_101.4	101.4	4.1	4.6	3.8	4.3	3.7	4.7	18	21	18	23
A 55 3_123.9	123.9	3.8	4.3	3.6	4.1	3.4	4.4	18	20	17	22
A 55 3_132.7	132.7	3.5	4.0	3.5	4.0	3.3	4.3	—	—	—	—
A 55 3_146.8	146.8	3.5	3.9	3.4	3.9	3.3	4.3	—	—	—	—
A 55 3_160.4	160.4	3.4	3.8	3.3	3.8	3.2	4.2	—	—	—	—
A 55 3_175.0	175.0	3.3	3.8	3.3	3.8	3.1	4.1	—	—	—	—
A 55 3_194.2	194.2	3.3	3.7	3.2	3.7	3.1	4.1	—	—	—	—

Para obter os valores do momento de inércia de redutores com 4 estágios, entre em contato com o nosso Departamento de Assistência Técnica.





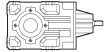
## A 60

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]											
			 IEC 										
			63	71	80	90	100	112	132	160	180		
<b>A 60 2_7.9</b>	7.9	36	—	—	—	—	—	—	—	54	114	112	57
<b>A 60 2_10.3</b>	10.3	23	—	—	25	25	27	27	41	101	99	99	44
<b>A 60 2_12.7</b>	12.7	16	—	—	19	19	20	20	35	94	92	92	37
<b>A 60 2_16.7</b>	16.7	9.4	—	—	12	12	14	14	28	88	85	85	30
<b>A 60 2_20.6</b>	20.6	6.7	—	—	9.6	9.5	11	11	26	85	83	83	28
<b>A 60 3_25.7</b>	25.7	14	—	—	17	17	18	18	33	92	90	90	35
<b>A 60 3_27.9</b>	27.9	14	—	—	17	17	18	18	33	92	90	90	35
<b>A 60 3_31.7</b>	31.7	10	—	—	13	13	15	15	29	89	86	86	31
<b>A 60 3_34.3</b>	34.3	10	—	—	13	13	14	14	29	89	86	86	31
<b>A 60 3_41.7</b>	41.7	6.1	—	—	9.0	8.9	10	10	25	84	82	82	27
<b>A 60 3_45.2</b>	45.2	6.1	—	—	8.9	8.9	10	10	25	84	82	82	27
<b>A 60 3_51.3</b>	51.3	5.0	—	—	7.4	7.4	8.7	8.7	24	83	81	81	26
<b>A 60 3_55.6</b>	55.6	4.5	—	—	7.4	7.3	8.6	8.6	23	83	81	81	26
<b>A 60 3_65.0</b>	65.0	3.2	4.7	4.6	6.1	6.0	7.3	7.3	22	82	79	79	24
<b>A 60 3_70.4</b>	70.4	3.2	4.7	4.6	6.1	6.0	7.3	7.3	22	81	79	79	24
<b>A 60 3_79.7</b>	79.7	2.1	3.6	3.5	5.0	4.9	6.2	6.2	21	80	78	78	23
<b>A 60 3_86.4</b>	86.4	2.1	3.6	3.5	5.0	4.9	6.2	6.2	21	80	78	78	23
<b>A 60 3_99.5</b>	99.5	2.0	3.5	3.4	4.3	4.3	5.6	5.6	20	80	78	78	23
<b>A 60 3_107.8</b>	107.8	1.5	3.0	2.9	4.3	4.3	5.6	5.6	20	80	78	78	22
<b>A 60 3_123.0</b>	123.0	1.1	2.6	2.5	4.0	3.9	5.2	5.2	20	79	77	77	22
<b>A 60 3_133.3</b>	133.3	1.1	2.6	2.5	3.9	3.9	5.2	5.2	20	79	77	77	22
<b>A 60 3_144.0</b>	144.0	0.80	2.3	2.2	3.7	3.6	5.0	5.0	—	—	—	—	22
<b>A 60 3_156.0</b>	156.0	0.80	2.3	2.2	3.7	3.6	5.0	5.0	—	—	—	—	22
<b>A 60 3_171.5</b>	171.5	0.60	2.1	2.0	3.5	3.4	4.7	4.7	—	—	—	—	22
<b>A 60 3_185.8</b>	185.8	0.60	2.1	2.0	3.5	3.4	4.7	4.7	—	—	—	—	22

Para obter os valores do momento de inércia de redutores com 4 estágios, entre em contato com o nosso Departamento de Assistência Técnica.




## A 60

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]							
			 NEMA						
			N56C	N140TC	N180TC	N210TC	N250TC		N280TC
<b>A 60 2_7.9</b>	7.9	36	—	—	—	54	114	112	57
<b>A 60 2_10.3</b>	10.3	23	—	—	25	41	101	99	44
<b>A 60 2_12.7</b>	12.7	16	—	—	19	35	94	92	37
<b>A 60 2_16.7</b>	16.7	9.4	—	—	12	28	88	85	30
<b>A 60 2_20.6</b>	20.6	6.7	—	—	9.6	26	85	83	28
<b>A 60 3_25.7</b>	25.7	14	—	—	17	33	92	90	35
<b>A 60 3_27.9</b>	27.9	14	—	—	17	33	92	90	35
<b>A 60 3_31.7</b>	31.7	10	—	—	13	29	89	86	31
<b>A 60 3_34.3</b>	34.3	10	—	—	13	29	89	86	31
<b>A 60 3_41.7</b>	41.7	6.1	—	—	9.0	25	84	82	27
<b>A 60 3_45.2</b>	45.2	6.1	—	—	8.9	25	84	82	27
<b>A 60 3_51.3</b>	51.3	5.0	—	—	7.4	24	83	81	26
<b>A 60 3_55.6</b>	55.6	4.5	—	—	7.4	23	83	81	26
<b>A 60 3_65.0</b>	65.0	3.2	4.7	4.7	6.1	22	82	79	24
<b>A 60 3_70.4</b>	70.4	3.2	4.7	4.7	6.1	22	81	79	24
<b>A 60 3_79.7</b>	79.7	2.1	3.6	3.6	5.0	21	80	78	23
<b>A 60 3_86.4</b>	86.4	2.1	3.6	3.6	5.0	21	80	78	23
<b>A 60 3_99.5</b>	99.5	2.0	3.5	3.5	4.3	20	80	78	23
<b>A 60 3_107.8</b>	107.8	1.5	3.0	3.0	4.3	20	80	78	22
<b>A 60 3_123.0</b>	123.0	1.1	2.6	2.6	4.0	20	79	77	22
<b>A 60 3_133.3</b>	133.3	1.1	2.6	2.6	3.9	20	79	77	22
<b>A 60 3_144.0</b>	144.0	0.80	2.3	2.3	3.7	—	—	—	22
<b>A 60 3_156.0</b>	156.0	0.80	2.3	2.3	3.7	—	—	—	22
<b>A 60 3_171.5</b>	171.5	0.60	2.1	2.1	3.5	—	—	—	22
<b>A 60 3_185.8</b>	185.8	0.60	2.1	2.1	3.5	—	—	—	22

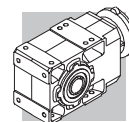
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

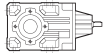
## A 60

		J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]									
		 SERVO									
	i	95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 60 2_7.9	7.9	—	—	—	—	—	—	53	55	54	59
A 60 2_10.3	10.3	—	—	25	26	25	26	40	42	41	46
A 60 2_12.7	12.7	—	—	19	20	19	20	33	35	35	40
A 60 2_16.7	16.7	—	—	12	13	12	13	26	29	28	33
A 60 2_20.6	20.6	—	—	9.6	10	9.5	10	24	26	26	31
A 60 3_25.7	25.7	—	—	17	18	17	18	31	33	33	38
A 60 3_27.9	27.9	—	—	17	18	17	18	31	33	33	38
A 60 3_31.7	31.7	—	—	13	14	13	14	27	29	29	34
A 60 3_34.3	34.3	—	—	13	14	13	14	27	29	29	34
A 60 3_41.7	41.7	—	—	9.0	9.5	8.9	9.9	23	26	25	30
A 60 3_45.2	45.2	—	—	8.9	9.4	8.9	9.9	23	26	25	30
A 60 3_51.3	51.3	—	—	7.4	7.9	7.4	8.4	22	24	24	29
A 60 3_55.6	55.6	—	—	7.4	7.9	7.3	8.3	21	24	23	28
A 60 3_65.0	65.0	6.0	6.5	6.1	6.6	6.0	7.0	20	23	22	27
A 60 3_70.4	70.4	6.0	6.5	6.1	6.6	6.0	7.0	20	23	22	27
A 60 3_79.7	79.7	4.9	5.4	5.0	5.5	4.9	5.9	19	22	21	26
A 60 3_86.4	86.4	4.9	5.4	5.0	5.5	4.9	5.9	19	22	21	26
A 60 3_99.5	99.5	4.8	5.3	4.3	4.8	4.3	5.3	19	21	20	25
A 60 3_107.8	107.8	4.3	4.8	4.3	4.8	4.3	5.3	18	21	20	25
A 60 3_123.0	123.0	3.9	4.4	4.0	4.5	3.9	4.9	18	21	20	25
A 60 3_133.3	133.3	3.9	4.4	3.9	4.4	3.9	4.9	18	21	20	25
A 60 3_144.0	144.0	3.6	4.1	3.7	4.2	3.6	4.6	—	—	—	—
A 60 3_156.0	156.0	3.6	4.1	3.7	4.2	3.6	4.6	—	—	—	—
A 60 3_171.5	171.5	3.4	3.9	3.5	4.0	3.4	4.4	—	—	—	—
A 60 3_185.8	185.8	3.4	3.9	3.5	4.0	3.4	4.4	—	—	—	—

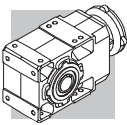
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

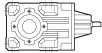
## A 70

	i	J (•10 <sup>-4</sup> ) [kgm <sup>2</sup> ]											
			 IEC										
			80	90	100	112	132	160	180	200	225	250	
A 70 3_9.4	9.4	—	—	—	—	—	—	187	185	194	—	—	150
A 70 3_10.2	10.2	—	—	—	—	—	—	183	180	190	—	—	146
A 70 3_12.1	12.1	—	—	—	—	—	—	150	148	157	—	—	113
A 70 3_13.1	13.1	—	—	—	—	—	—	147	145	154	—	—	111
A 70 3_15.4	15.4	45	—	—	—	—	64	124	121	161	—	—	87
A 70 3_16.7	16.7	44	—	—	—	—	63	122	120	129	—	—	85
A 70 3_19.7	19.7	30	—	—	—	—	49	109	107	—	—	—	72
A 70 3_21.3	21.3	29	—	—	—	—	48	108	106	—	—	—	71
A 70 3_23.5	23.5	—	—	—	—	—	—	116	114	123	—	—	79
A 70 3_27.8	27.8	—	—	—	—	—	—	118	116	125	—	—	81
A 70 3_30.1	30.1	—	—	—	—	—	—	117	115	124	—	—	81
A 70 3_35.4	35.4	26	—	—	—	—	45	104	102	111	—	—	67
A 70 3_38.4	38.4	25	—	—	—	—	44	104	101	111	—	—	67
A 70 3_45.2	45.2	18	—	—	—	—	37	97	94	—	—	—	59
A 70 3_49.0	49.0	18	—	—	—	—	37	96	94	—	—	—	59
A 70 3_53.2	53.2	15	—	—	—	—	34	93	91	—	—	—	56
A 70 3_57.7	57.7	15	—	—	—	—	34	93	91	—	—	—	56
A 70 3_66.9	66.9	9.7	12	12	13	13	29	88	86	—	—	—	51
A 70 3_72.5	72.5	9.6	12	12	13	13	28	88	86	—	—	—	51
A 70 3_79.3	79.3	6.8	9.4	9.3	11	11	26	85	83	—	—	—	48
A 70 3_85.9	85.9	6.7	9.3	9.3	11	11	26	85	83	—	—	—	48
A 70 3_96.2	96.2	5.4	8.2	8.2	9.4	9.4	24	84	82	—	—	—	47
A 70 3_104.2	104.2	5.4	8.2	8.1	9.4	9.4	24	84	81	—	—	—	47
A 70 3_120.6	120.6	3.4	6.2	6.2	7.5	7.5	22	82	79	—	—	—	45
A 70 3_130.7	130.7	3.4	6.2	6.2	7.4	7.4	22	82	79	—	—	—	45
A 70 3_141.9	141.9	2.4	5.3	5.2	6.5	6.5	21	81	78	—	—	—	44
A 70 3_153.7	153.7	2.4	5.2	5.2	6.5	6.5	21	81	78	—	—	—	44

Para obter os valores do momento de inércia de redutores com 4 estágios, entre em contato com o nosso Departamento de Assistência Técnica.

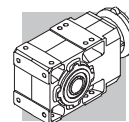


## A 70




	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]					
			 NEMA				
			N180TC	N210TC	N250TC	N280TC	
<b>A 70 3_9.4</b>	9.4	—	—	—	187	185	150
<b>A 70 3_10.2</b>	10.2	—	—	—	183	180	146
<b>A 70 3_12.1</b>	12.1	—	—	—	150	148	113
<b>A 70 3_13.1</b>	13.1	—	—	—	147	145	111
<b>A 70 3_15.4</b>	15.4	45	—	64	124	121	87
<b>A 70 3_16.7</b>	16.7	44	—	63	122	120	85
<b>A 70 3_19.7</b>	19.7	30	—	49	109	107	72
<b>A 70 3_21.3</b>	21.3	29	—	48	108	106	71
<b>A 70 3_23.5</b>	23.5	—	—	—	116	114	79
<b>A 70 3_27.8</b>	27.8	—	—	—	118	116	81
<b>A 70 3_30.1</b>	30.1	—	—	—	117	115	81
<b>A 70 3_35.4</b>	35.4	26	—	45	104	102	67
<b>A 70 3_38.4</b>	38.4	25	—	44	104	101	67
<b>A 70 3_45.2</b>	45.2	18	—	37	97	94	59
<b>A 70 3_49.0</b>	49.0	18	—	37	96	94	59
<b>A 70 3_53.2</b>	53.2	15	—	34	93	91	56
<b>A 70 3_57.7</b>	57.7	15	—	34	93	91	56
<b>A 70 3_66.9</b>	66.9	9.7	12	29	88	86	51
<b>A 70 3_72.5</b>	72.5	9.6	12	28	88	86	51
<b>A 70 3_79.3</b>	79.3	6.8	9.4	26	85	83	48
<b>A 70 3_85.9</b>	85.9	6.7	9.3	26	85	83	48
<b>A 70 3_96.2</b>	96.2	5.4	8.2	24	84	82	47
<b>A 70 3_104.2</b>	104.2	5.4	8.2	24	84	81	47
<b>A 70 3_120.6</b>	120.6	3.4	6.2	22	82	79	45
<b>A 70 3_130.7</b>	130.7	3.4	6.2	22	82	79	45
<b>A 70 3_141.9</b>	141.9	2.4	5.3	21	81	78	44
<b>A 70 3_153.7</b>	153.7	2.4	5.2	21	81	78	44

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

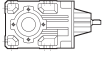
## A 80

	i	J (•10 <sup>-4</sup> ) [kgm <sup>2</sup> ]											
			 IEC										
		80	90	100	112	132	160	180	200	225	250		
A 80 3_9.8	9.8	—	—	—	—	—	—	—	320	333	611	—	286
A 80 3_10.7	10.7	—	—	—	—	—	—	—	309	323	601	—	276
A 80 3_12.3	12.3	—	—	—	—	—	—	239	239	253	531	—	205
A 80 3_13.3	13.3	—	—	—	—	—	—	232	233	246	524	—	199
A 80 3_15.5	15.5	—	—	—	—	—	—	187	185	194	478	—	150
A 80 3_16.7	16.7	—	—	—	—	—	—	183	180	190	474	—	150
A 80 3_19.3	19.3	69	—	—	—	—	88	147	145	154	440	—	111
A 80 3_20.9	20.9	66	—	—	—	—	85	145	142	152	437	—	108
A 80 3_22.6	22.6	—	—	—	—	—	—	—	205	219	496	—	171
A 80 3_24.5	24.5	—	—	—	—	—	—	—	203	217	494	—	169
A 80 3_28.2	28.2	—	—	—	—	—	—	165	166	179	457	—	132
A 80 3_30.6	30.6	—	—	—	—	—	—	164	164	178	456	—	130
A 80 3_35.5	35.5	—	—	—	—	—	—	140	138	147	432	—	104
A 80 3_38.5	38.5	—	—	—	—	—	—	140	137	147	431	—	103
A 80 3_44.5	44.5	39	—	—	—	—	58	118	115	125	410	—	81
A 80 3_48.2	48.2	39	—	—	—	—	58	117	115	124	410	—	90
A 80 3_55.2	55.2	29	—	—	—	—	48	108	105	136	399	—	70
A 80 3_59.8	59.8	29	—	—	—	—	48	107	105	136	399	—	70
A 80 3_66.8	66.8	22	—	—	—	—	41	101	98	128	391	—	63
A 80 3_72.4	72.4	22	—	—	—	—	41	100	98	128	391	—	63
A 80 3_82.3	82.3	15	17	17	18	18	34	94	91	120	384	—	56
A 80 3_89.2	89.2	15	17	17	18	18	34	93	91	120	386	—	56
A 80 3_96.0	96.0	14	16	16	17	17	32	92	90	119	382	—	55
A 80 3_104.0	104.0	13	16	16	17	17	32	92	89	119	382	—	55
A 80 3_116.0	116.0	9.1	12	12	13	13	28	87	85	—	—	—	50
A 80 3_125.6	125.6	9.1	12	12	13	13	28	87	85	—	—	—	50
A 80 3_144.7	144.7	5.4	8.3	8.2	10	10	24	84	82	—	—	—	47
A 80 3_156.8	156.8	5.4	3.0	2.9	4.2	4.2	19	78	76	—	—	—	41

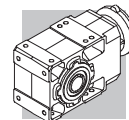
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

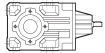
## A 80

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]						
			 NEMA					
			N180TC	N210TC	N250TC	N280TC	N320TC	
<b>A 80 3_9.8</b>	9.8	—	—	—	—	320	611	286
<b>A 80 3_10.7</b>	10.7	—	—	—	—	309	601	276
<b>A 80 3_12.3</b>	12.3	—	—	—	239	239	531	205
<b>A 80 3_13.3</b>	13.3	—	—	—	232	233	524	199
<b>A 80 3_15.5</b>	15.5	—	—	—	187	185	478	150
<b>A 80 3_16.7</b>	16.7	—	—	—	183	180	474	150
<b>A 80 3_19.3</b>	19.3	69	—	88	147	145	440	111
<b>A 80 3_20.9</b>	20.9	66	—	85	145	142	437	108
<b>A 80 3_22.6</b>	22.6	—	—	—	—	205	496	171
<b>A 80 3_24.5</b>	24.5	—	—	—	—	203	494	169
<b>A 80 3_28.2</b>	28.2	—	—	—	165	166	457	132
<b>A 80 3_30.6</b>	30.6	—	—	—	164	164	456	130
<b>A 80 3_35.5</b>	35.5	—	—	—	140	138	432	104
<b>A 80 3_38.5</b>	38.5	—	—	—	140	137	431	103
<b>A 80 3_44.5</b>	44.5	39	—	58	118	115	410	81
<b>A 80 3_48.2</b>	48.2	39	—	58	117	115	410	90
<b>A 80 3_55.2</b>	55.2	29	—	48	108	105	399	70
<b>A 80 3_59.8</b>	59.8	29	—	48	107	105	399	70
<b>A 80 3_66.8</b>	66.8	22	—	41	101	98	391	63
<b>A 80 3_72.4</b>	72.4	22	—	41	100	98	391	63
<b>A 80 3_82.3</b>	82.3	15	17	34	94	91	384	56
<b>A 80 3_89.2</b>	89.2	15	17	34	93	91	386	56
<b>A 80 3_96.0</b>	96.0	14	16	32	92	90	382	55
<b>A 80 3_104.0</b>	104.0	13	16	32	92	89	382	55
<b>A 80 3_116.0</b>	116.0	9.1	12	28	87	85	—	50
<b>A 80 3_125.6</b>	125.6	9.1	12	28	87	85	—	50
<b>A 80 3_144.7</b>	144.7	5.4	8.3	24	84	82	—	47
<b>A 80 3_156.8</b>	156.8	5.4	3.0	19	78	76	—	41

Para obter os valores do momento de inércia de redutores com 4 estágios, entre em contato com o nosso Departamento de Assistência Técnica.





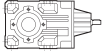
## A 90

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]											
			 IEC										
			80	90	100	112	132	160	180	200	225	250	
A 90 3_9.7	9.7	—	—	—	—	—	—	—	597	611	889	918	898
A 90 3_10.5	10.5	—	—	—	—	—	—	—	575	589	867	896	876
A 90 3_12.6	12.6	—	—	—	—	—	—	—	402	416	693	723	703
A 90 3_13.7	13.7	—	—	—	—	—	—	—	389	403	681	710	690
A 90 3_15.6	15.6	—	—	—	—	—	—	—	306	319	597	627	607
A 90 3_16.9	16.9	—	—	—	—	—	—	—	297	311	589	618	598
A 90 3_19.4	19.4	—	—	—	—	—	—	236	234	243	527	559	530
A 90 3_21.0	21.0	—	—	—	—	—	—	231	228	238	522	553	524
A 90 3_22.3	22.3	—	—	—	—	—	—	—	326	340	618	647	627
A 90 3_24.1	24.1	—	—	—	—	—	—	—	322	336	614	643	623
A 90 3_29.1	29.1	—	—	—	—	—	—	—	243	257	535	564	544
A 90 3_31.5	31.5	—	—	—	—	—	—	—	241	254	532	562	542
A 90 3_35.8	35.8	—	—	—	—	—	—	—	201	215	493	522	502
A 90 3_38.8	38.8	—	—	—	—	—	—	—	200	213	491	521	500
A 90 3_44.6	44.6	—	—	—	—	—	—	169	166	176	460	491	462
A 90 3_48.3	48.3	—	—	—	—	—	—	168	165	175	459	490	461
A 90 3_55.0	55.0	66	—	—	—	—	85	144	142	151	437	468	438
A 90 3_59.6	59.6	66	—	—	—	—	84	144	141	151	436	468	437
A 90 3_68.8	68.8	48	—	—	—	—	67	126	124	154	418	449	416
A 90 3_74.5	74.5	47	—	—	—	—	66	126	123	154	417	449	416
A 90 3_80.4	80.4	43	—	—	—	—	62	121	119	149	412	443	412
A 90 3_87.1	87.1	43	—	—	—	—	62	121	119	148	412	443	412
A 90 3_98.6	98.6	28	30	30	32	32	47	106	104	134	397	428	399
A 90 3_106.8	106.8	28	30	30	31	31	47	106	104	133	397	428	399
A 90 3_116.9	116.9	23	25	25	26	26	41	101	99	128	391	423	394
A 90 3_126.6	126.6	22	25	25	26	26	41	101	98	128	391	422	394
A 90 3_139.4	139.4	15	17	17	19	19	33	93	91	—	—	—	386
A 90 3_151.0	151.0	14	3.0	3.0	4.3	4.3	19	79	76	—	—	—	372

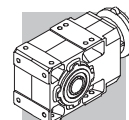
Para obter os valores do momento de inércia de redutores com 4 estágios, entre em contato com o nosso Departamento de Assistência Técnica.



## A 90

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]						
			 NEMA					
			N180TC	N210TC	N250TC	N280TC	N320TC	
<b>A 90 3_9.7</b>	9.7	—	—	—	—	597	889	898
<b>A 90 3_10.5</b>	10.5	—	—	—	—	575	867	876
<b>A 90 3_12.6</b>	12.6	—	—	—	—	402	693	703
<b>A 90 3_13.7</b>	13.7	—	—	—	—	389	681	690
<b>A 90 3_15.6</b>	15.6	—	—	—	—	306	597	607
<b>A 90 3_16.9</b>	16.9	—	—	—	—	297	589	598
<b>A 90 3_19.4</b>	19.4	—	—	—	236	234	527	530
<b>A 90 3_21.0</b>	21.0	—	—	—	231	228	522	524
<b>A 90 3_22.3</b>	22.3	—	—	—	—	326	618	627
<b>A 90 3_24.1</b>	24.1	—	—	—	—	322	614	623
<b>A 90 3_29.1</b>	29.1	—	—	—	—	243	535	544
<b>A 90 3_31.5</b>	31.5	—	—	—	—	241	532	542
<b>A 90 3_35.8</b>	35.8	—	—	—	—	201	493	502
<b>A 90 3_38.8</b>	38.8	—	—	—	—	200	491	500
<b>A 90 3_44.6</b>	44.6	—	—	—	169	166	460	462
<b>A 90 3_48.3</b>	48.3	—	—	—	168	165	459	461
<b>A 90 3_55.0</b>	55.0	66	—	85	144	142	437	438
<b>A 90 3_59.6</b>	59.6	66	—	84	144	141	436	437
<b>A 90 3_68.8</b>	68.8	48	—	67	126	124	418	416
<b>A 90 3_74.5</b>	74.5	47	—	66	126	123	417	416
<b>A 90 3_80.4</b>	80.4	43	—	62	121	119	412	412
<b>A 90 3_87.1</b>	87.1	43	—	62	121	119	412	412
<b>A 90 3_98.6</b>	98.6	28	30	47	106	104	397	399
<b>A 90 3_106.8</b>	106.8	28	30	47	106	104	397	399
<b>A 90 3_116.9</b>	116.9	23	25	41	101	99	391	394
<b>A 90 3_126.6</b>	126.6	22	25	41	101	98	391	394
<b>A 90 3_139.4</b>	139.4	15	17	33	93	91	—	386
<b>A 90 3_151.0</b>	151.0	14	3.0	19	79	76	—	372

Para obter os valores do momento de inércia de redutores com 4 estágios, entre em contato com o nosso Departamento de Assistência Técnica.

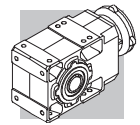


## 43 RELAZIONI EXATAS

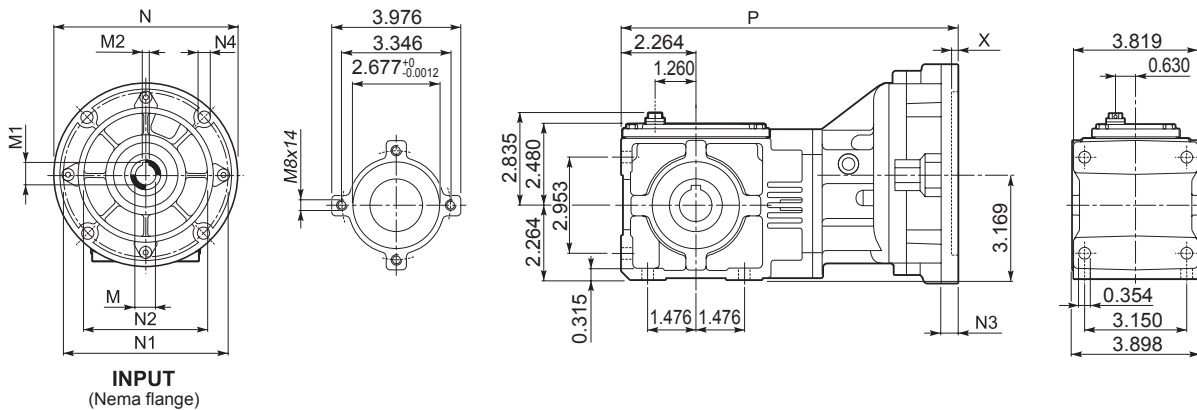
$i_N$	A 05	A 10	A 20	A 30	A 35	A 41	A 50	A 55	A 60	A 70	A 80	A 90
5.0								4.94505				
5.6	5.46559	5.46559	5.35117	5.41311	5.41311	5.24476						
6.3	6.33484	6.33484	6.53846	6.41026	6.41026			6.41026				
7.1	7.21154	7.21154	7.28745	7.02341	7.02341	7.12251						
8.0	8.51648	8.51648	8.37104	8.46154	8.46154	8.33333	7.73684	8.46154	7.86420			
9.0	9.61538	9.61538	9.37500	9.31174	9.31174	9.19732				9.43946		9.67545
10.0	10.55639	10.55639	10.33540	10.45503	10.63348	10.12987	9.73401	10.35503	10.31579	10.22609	9.83278	10.48174
11.2				11.77885	11.77885	11.74089				12.08027	10.65217	12.64214
12.5	12.30769	12.30769	11.96581		13.06878		13.10700	13.07692	12.70370	13.08696	12.27130	13.69565
14.0	13.92857	13.92857	14.07519	13.56522	15.47619	13.75661				15.40468	13.29391	15.57512
16.0	16.44898	16.44898	16.16807	16.34286	16.95652	16.09524	16.57005	15.68047	16.73663	16.68841	15.45151	16.87304
18.0	18.57143	18.57143	18.10714	17.98496		17.76398					19.33779	19.38462
20.0	21.35714	21.35714	21.22449	20.53782	20.42857		20.91813	19.23077	20.5942	19.66555	20.94928	21.00000
22.4	23.77143	23.77143	23.11111	22.75000	22.48120	22.67669				21.30435	22.61538	22.25354
25.0	25.46939	25.46939	26.46429	26.53061	25.67227		24.04795	23.79021	25.71012	23.52000	24.50000	24.10800
28.0	28.57143	28.57143	29.21905	29.30159	28.43750	28.32143	26.43733		27.85263	27.78462	28.22400	29.07692
31.5	32.19048	32.19048	31.30612	33.42857	33.16327		32.38095	29.93134	31.66154	30.10000	30.57600	31.50000
35.5	35.11688	35.11688	35.42857	36.64762	36.62698	35.90476	35.59829		34.30000	35.43077	35.53846	35.82277
40.0	40.85714	40.85714	39.61905	39.26531	41.78571	45.06667	40.93645	40.30303	41.71282	38.38333	38.50000	38.80800
45.0	45.39683	45.39683	43.22078	43.42857	45.80952	48.28571	45.00386		45.18889	45.23077	44.47692	44.58462
50.0	51.25714	51.25714	48.28571	48.28571	49.08163	53.14286	51.67843	50.95166	51.32709	49.00000	48.18333	48.30000
56.0	58.60317	58.60317	53.65079	52.67532	54.28571	58.80952	56.81314		55.60435	53.23314	55.18154	55.03077
63.0	65.92857	65.92857	63.14286	59.42857	60.35714	64.15584	63.89011	64.32168	64.98947	66.94154	66.80237	59.61667
71.0			70.98413	66.03175	65.84416	71.31429	70.23817		70.40526	72.52000	72.36923	68.75077
80.0	76.40816	76.40816	79.85714	76.51429	74.28571	79.23810	81.45055	79.52098	79.71923	79.32781	82.32000	80.37160
90.0	91.61905	91.61905	92.32653	86.66667	82.53968	92.76828	89.54339		86.36250	85.93846	89.18000	87.06923
100.0				97.50000	95.64286		99.53407	101.37762	99.50769	96.21818	104.03077	98.60308
112.2			109.16518	109.07029	105.54155	115.86039	109.42367	123.88531	107.80000	104.23636	115.95524	116.90414
125.0			120.52857	120.46208	116.90972		129.67046	132.73427	123.02769	120.61538	125.61818	126.64615
140.0			146.14286	137.42857	136.33787	146.88312	140.61938	146.80796	144.04260	141.86014	144.73846	139.39301
160.0			163.42857	161.42404	150.57760		154.59118	160.43706	171.46573	169.75499	156.80000	166.12694
180.0			178.28571	178.53968	171.78571	184.36364	173.36264	175.02225	185.75455	183.90123	171.29752	179.97085
200.0			199.17857	198.50794	201.78005	197.53247	190.58777	194.19860	208.73017		214.73193	209.01044
225.0			221.30952	216.55411	223.17460	217.40260	231.98700	208.05260	226.12435	220.25418	232.62626	226.42797
250.0			260.46429	244.31746	248.13492	240.58442	260.88462		264.29053	238.60870		
280.0			292.80952	271.46384	270.69264	291.74026	286.80584	262.64685	286.31474	292.01619	277.28428	281.43590
315.0			329.41071	314.55873	305.39683	324.15584	332.58974		324.19154	316.35088	300.39130	304.88889
355.0				356.29630	339.32981	376.83117	365.63552	324.71066	351.20750	369.38462	353.96864	355.79521
400.0			380.84694	400.83333	393.19841		406.43077		404.66462	400.16667	383.46603	385.44482
450.0							446.81331	413.95862	438.38667	475.76068	442.07937	449.15802
500.0							481.63314	505.86503	500.31262	515.40741	478.91932	486.58785
560.0							574.19580	541.99825	585.77325	595.03590	560.45035	555.29467
630.0							631.24731	655.11801	634.58769	644.62222	607.15455	601.56923
710.0							707.89744	714.67419	697.29399	705.13609	703.46182	707.91953
800.0							778.23340	792.97762	755.40182		829.52598	766.91282
900.0										926.54545	898.65315	865.09065
1000.0										1072.13675	1001.43166	1025.1594
1125.0										1161.48148	1084.88430	1110.58935
1250.0										1242.33846	1236.85594	1222.17967
1400.0										1345.86667	1339.92727	1324.02797
1600.0										1583.07692	1557.66545	1506.76450
1800.0										1715.00000		1632.32821







## A 05...N(NEMA Input)

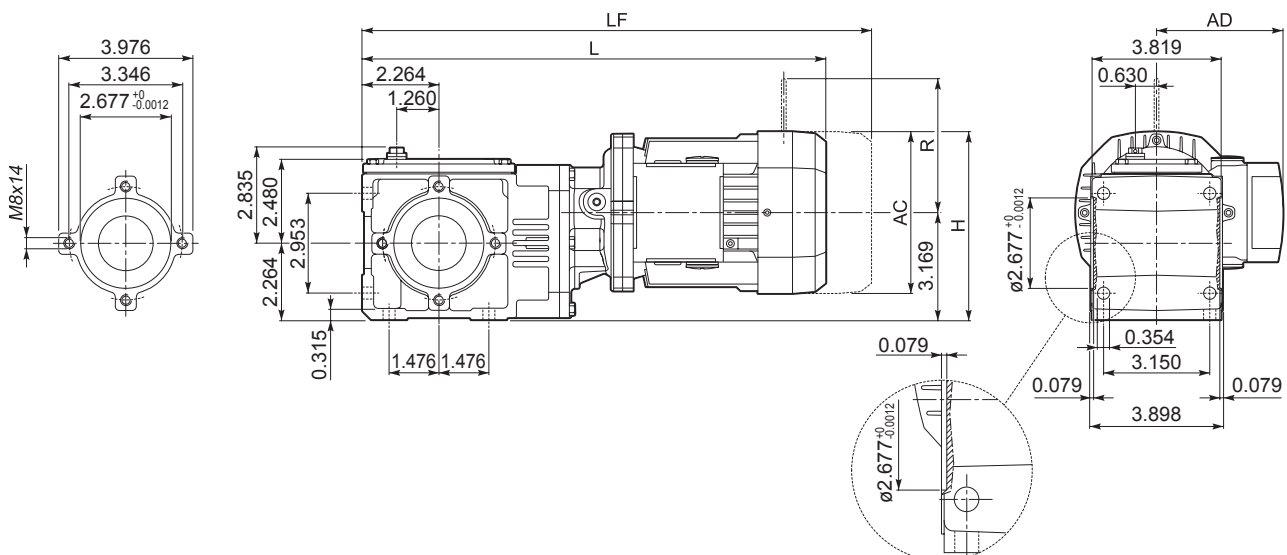


Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs		
		<b>A 05 2</b>	<b>N56C</b>	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	10.000	11
		<b>A 05 2</b>	<b>N140TC</b>	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	10.000	11

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

## A 05...M/ME



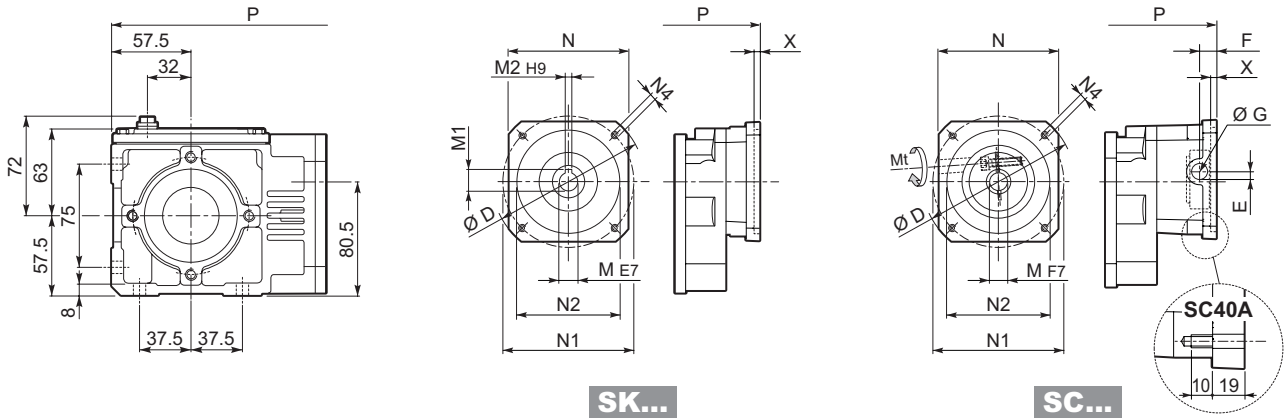
Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

			AC	H	L	AD	lbs	M...FD M...FA	lbs	M...FD	M...FA	R	AD			
			<b>A 05 2</b>	<b>S05</b>	<b>M05</b>	4.764	5.551	14.193	3.740	17	16.791	20	3.780	4.803	4.567	3.740
			<b>A 05 2</b>	<b>S1</b>	<b>M1</b>	5.433	5.886	15.335	4.252	25	17.736	31	4.055	5.315	4.882	4.252
			<b>A 05 2</b>	<b>S2</b>	<b>ME2S</b>	6.142	6.240	16.476	4.685	34	—	—	—	—	—	—





## A 05...SK / SC

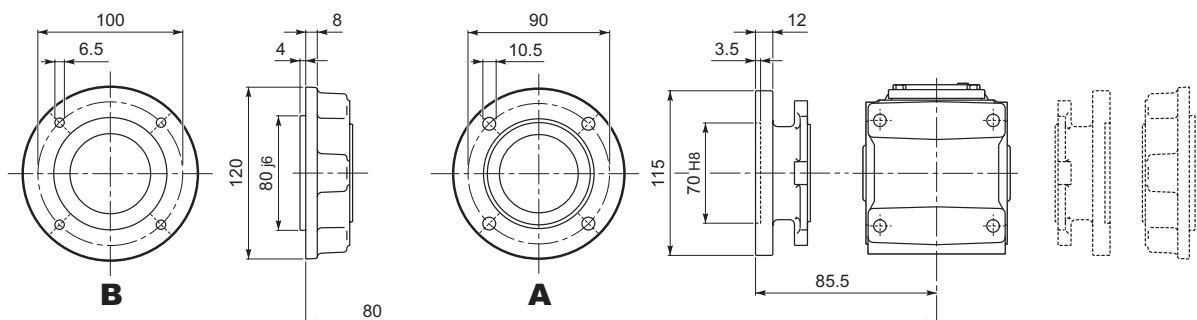


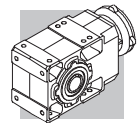
Dimensões em mm

		D	M	M1	M2	N	N1	N2	N4	X	P	kg
A 05 2	SK40A	74	9	10.4	3	55	63	40	M5x10	3	207.5	5
A 05 2	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	206	5
A 05 2	SK60B	102	14	16.3	5	82	75	60	M5x10	4	213	5
A 05 2	SK80A	115	14	16.3	5	90	100	80	M6x12	4	213	5

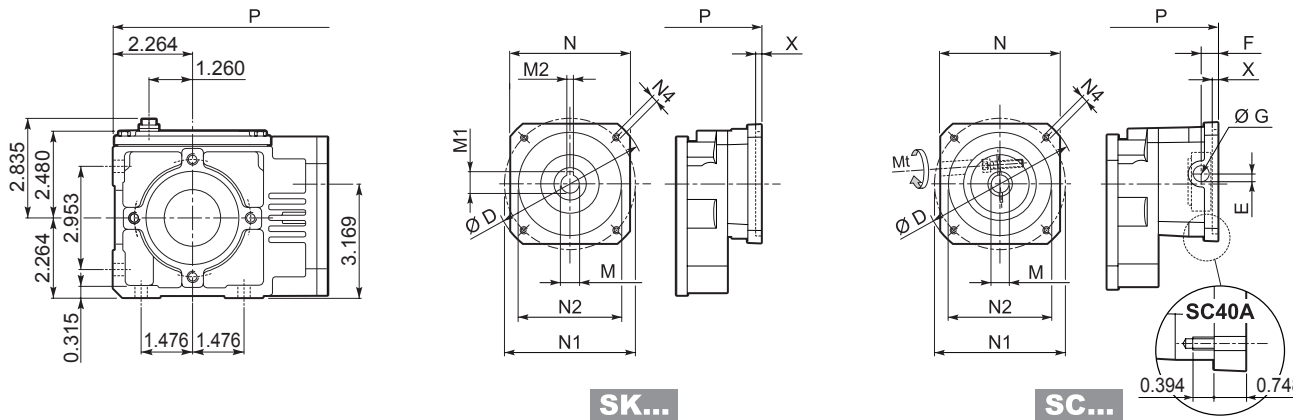
			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	kg
A 05 2	SC40A	M5	15	74	10.5	9.5	12.5	9	55	63	40	M5x10	3	226.5	6
A 05 2	SC60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	233	6
A 05 2	SC60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	233	6
A 05 2	SC80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	233	6

## A 05...F...





## A 05...SK / SC

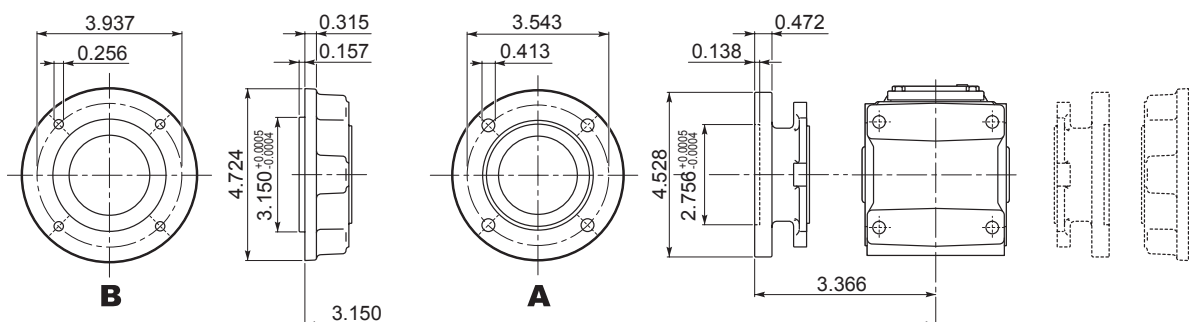


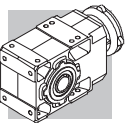
Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

		D	M	M1	M2	N	N1	N2	N4	X	P	
A 05 2	SK40A	2.913	0.354	0.409	0.118	2.165	2.480	1.575	<i>M5x10</i>	0.118	8.169	11
A 05 2	SK60A	4.016	0.433 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.504	0.157 <sup>+0.0012</sup> / <sub>+0</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.138	8.110	11
A 05 2	SK60B	4.016	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.157	8.386	11
A 05 2	SK80A	4.528	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	3.543	3.937	3.150	<i>M6x12</i>	0.157	8.386	11

			Mt [lb-in]	D	E	F	G	M	N	N1	N2	N4	X	P	
A 05 2	SC40A	<i>M5</i>	133	2.913	0.413	0.374	0.492	0.354	2.165	2.480	1.575	<i>M5x10</i>	0.118	8.917	13
A 05 2	SC60A	<i>M6</i>	133	4.016	0.276	0.492	0.492	0.433 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.157	9.173	13
A 05 2	SC60B	<i>M6</i>	133	4.016	0.276	0.492	0.492	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.157	9.173	13
A 05 2	SC80A	<i>M6</i>	133	4.528	0.236	0.492	0.492	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.543	3.937	3.150	<i>M6x12</i>	0.157	9.173	13

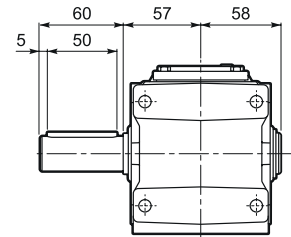
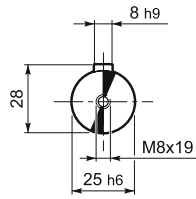
## A 05...F...



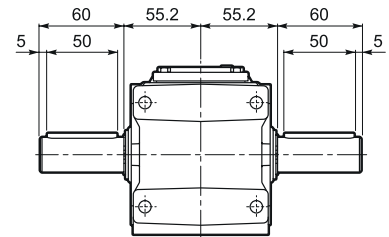
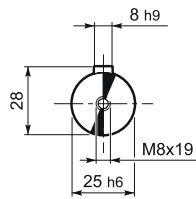


**A 05**

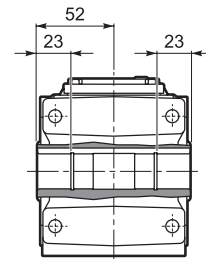
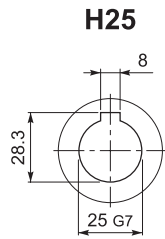
**A 05...UR**



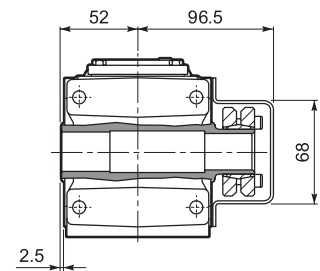
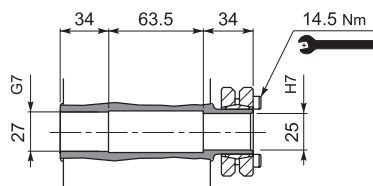
**A 05...UD**

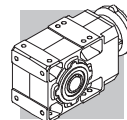


**A 05...UH**



**A 05...US**

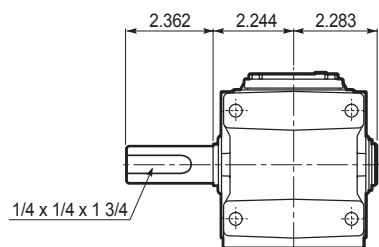
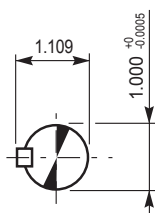




# A 05

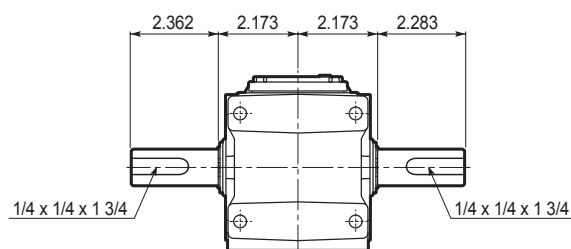
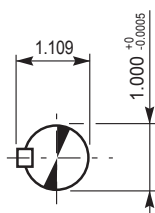
## A 05...NUR

**OUTPUT**  
(Inch Series)



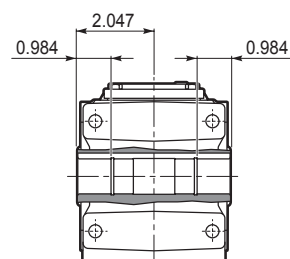
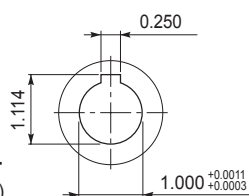
## A 05...NUD

**OUTPUT**  
(Inch Series)

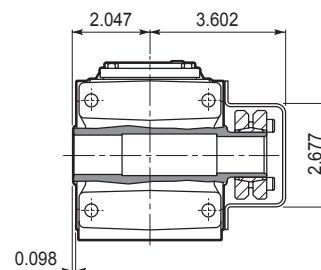
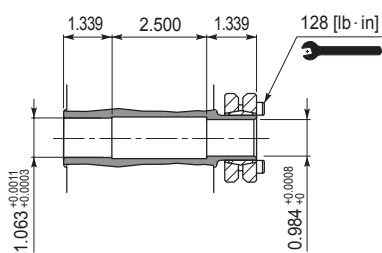


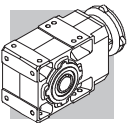
## A 05...NUH

**OUTPUT**  
(Inch Series)

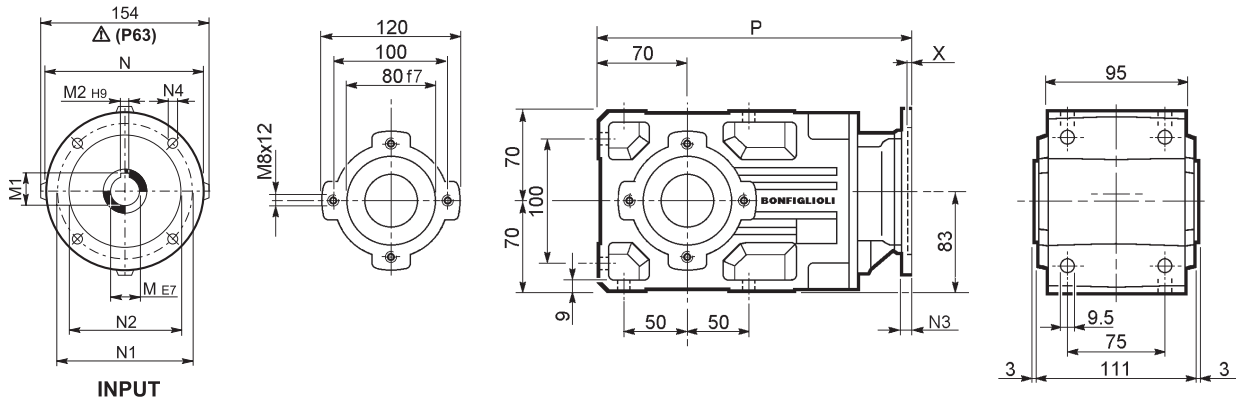


## A 05...US





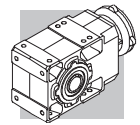
## A 10...P(IEC)



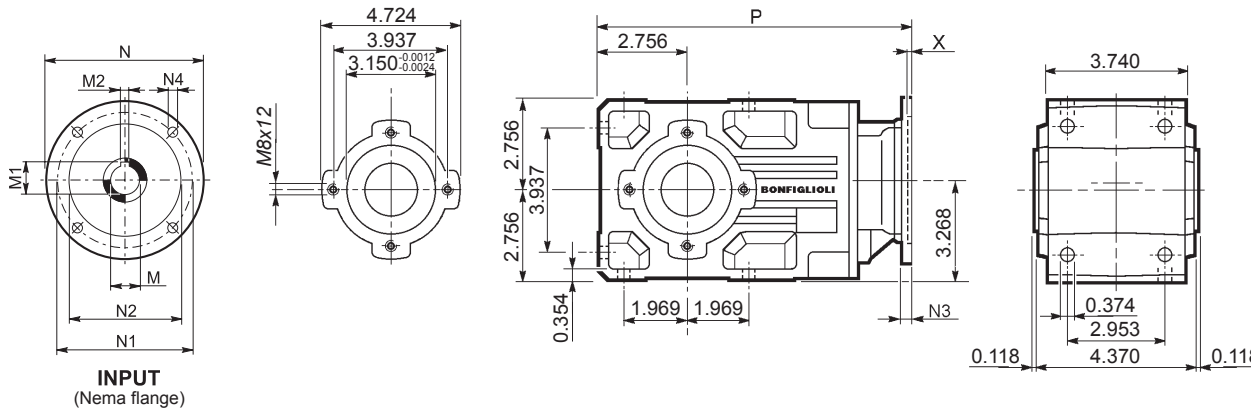
Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	
A 10 2	P63	11	12.8	4	140	115	95	—	M8x10	4	282.5	8
A 10 2	P71	14	16.3	5	160	130	110	—	M8x10	4.5	282.5	9
A 10 2	P80	19	21.8	6	200	165	130	—	M10x12	4	302	9
A 10 2	P90	24	27.3	8	200	165	130	—	M10x12	4	302	9
A 10 2	P100	28	31.3	8	250	215	180	—	M12x16	4.5	312	13
A 10 2	P112	28	31.3	8	250	215	180	—	M12x16	4.5	312	13




Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA



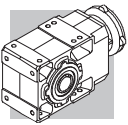
## A 10...N(NEMA Input)



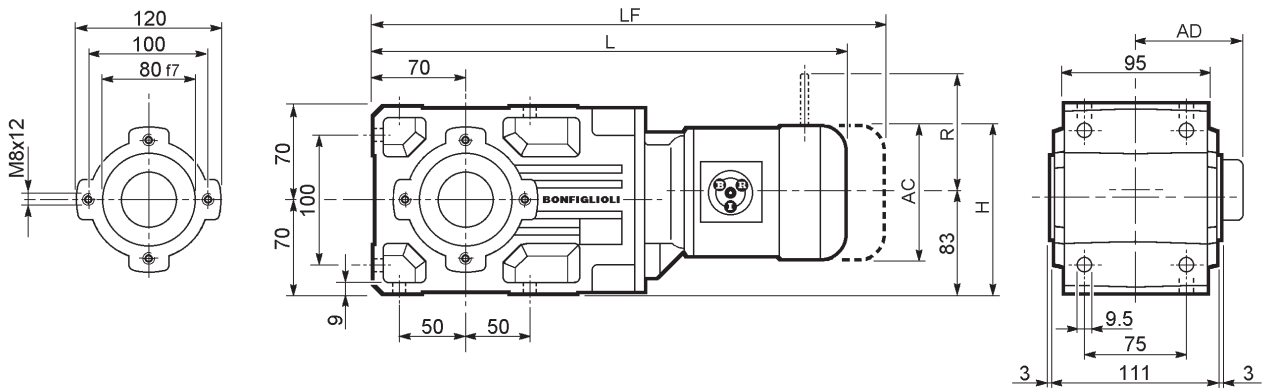
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		M	M1	M2	N	N1	N2	N3	N4	X	P	 lbs
<b>A 10 2</b>	<b>N56C</b>	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	11.909	20
<b>A 10 2</b>	<b>N140TC</b>	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	11.909	20
<b>A 10 2</b>	<b>N180TC</b>	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.630	0.551	0.217	12.736	29




Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC



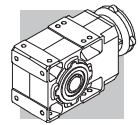
## A 10...M/ME



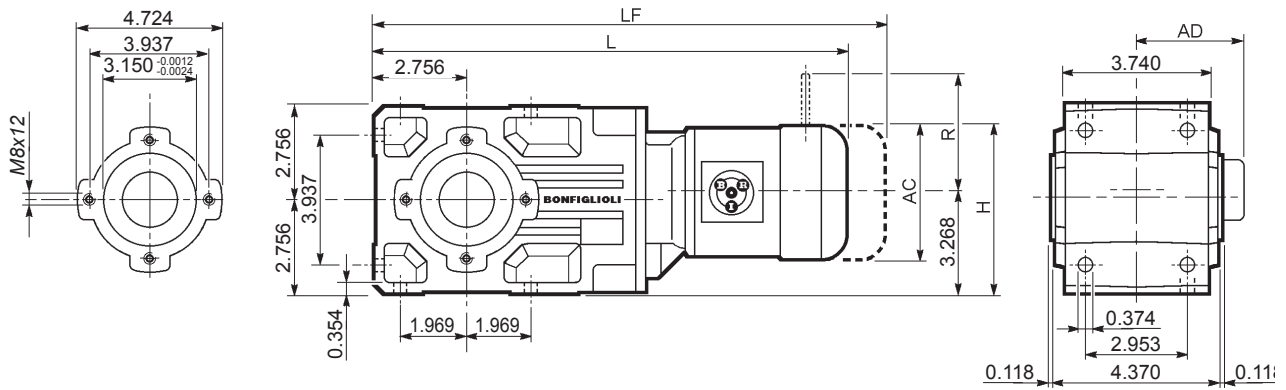
Dimensões em mm

  	AC	H	L	AD	Kg	M...FD M...FA		M...FD		M...FA	
						LF	Kg	R	AD	R	AD
A 10 2 S05 M05	121	143.5	408.5	95	12	474.5	14	96	122	116	95
A 10 2 S1 M1	138	152	437.5	108	14	498.5	17	103	135	124	108
A 10 2 S2 ME2S	156	161	466.5	119	18	—	—	—	—	—	—
A 10 2 S3 ME3S	195	180.5	509.5	142	24.5	—	—	—	—	—	—
A 10 2 S3 ME3L	195	180.5	541.5	142	30	—	—	—	—	—	—





## A 10...M/ME

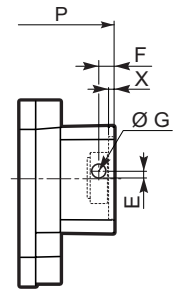
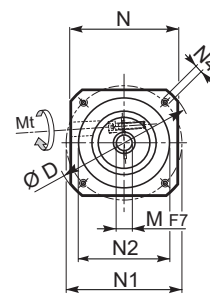
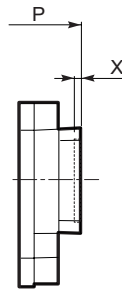
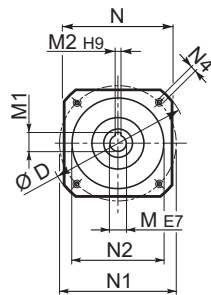
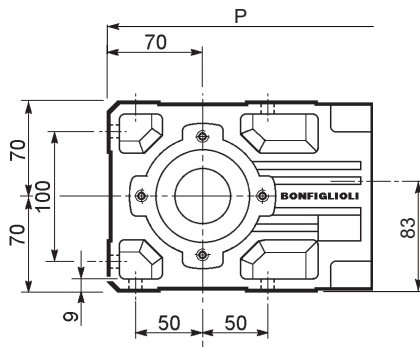


Dimensões em polegadas, exceto quando mostrados em *itálico>* [mm]

			AC	H	L	AD	lbs	M...FD M...FA		M...FD		M...FA	
								LF	lbs	R	AD	R	AD
			4.764	5.650	16.083	3.740	26	18.681	31	3.780	4.803	4.567	3.740
<b>A 10 2</b>	<b>S05</b>	<b>M05</b>	4.764	5.650	16.083	3.740	26	18.681	31	3.780	4.803	4.567	3.740
<b>A 10 2</b>	<b>S1</b>	<b>M1</b>	5.433	5.984	17.224	4.252	31	19.626	37	4.055	5.315	4.882	4.252
<b>A 10 2</b>	<b>S2</b>	<b>ME2S</b>	6.142	6.339	18.366	4.685	40	—	—	—	—	—	—
<b>A 10 2</b>	<b>S3</b>	<b>ME3S</b>	7.677	7.106	20.059	5.591	54	—	—	—	—	—	—
<b>A 10 2</b>	<b>S3</b>	<b>ME3L</b>	7.677	7.106	21.319	5.591	66	—	—	—	—	—	—



## A 10...SK / SC



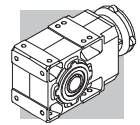
SK...

SC...

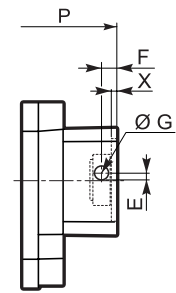
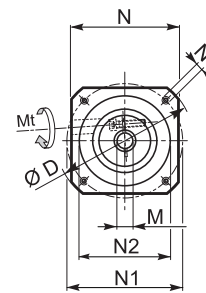
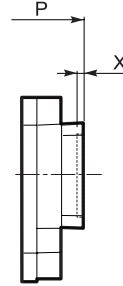
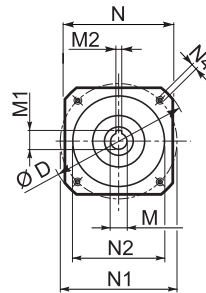
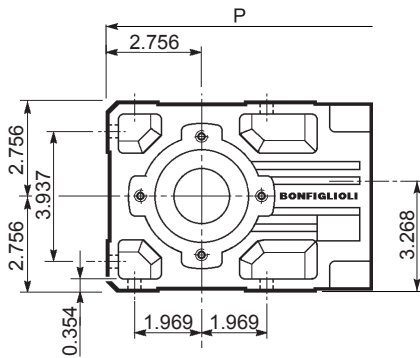
Dimensões em mm

		D	M	M1	M2	N	N1	N2	N4	X	P	kg
		102	11	12.8	4	82	75	60	M5x10	3.5	254	8
<b>A 10 2</b>	<b>SK60A</b>	102	11	12.8	4	82	75	60	M5x10	3.5	254	8
<b>A 10 2</b>	<b>SK60B</b>	102	14	16.3	5	82	75	60	M5x10	4	261	8
<b>A 10 2</b>	<b>SK80A</b>	115	14	16.3	5	90	100	80	M6x12	4	261	8
<b>A 10 2</b>	<b>SK80C</b>	120	19	21.8	6	96	100	80	M6x12	4	302	9
<b>A 10 2</b>	<b>SK95A</b>	130	14	16.3	5	102	115	95	M8x12	4	302	9
<b>A 10 2</b>	<b>SK95B</b>	130	19	21.8	6	102	115	95	M8x12	4	302	9
<b>A 10 2</b>	<b>SK95C</b>	130	24	27.3	8	102	115	95	M8x12	4	302	9
<b>A 10 2</b>	<b>SK110A</b>	150	19	21.8	6	120	130	110	M8x12	5	302	9
<b>A 10 2</b>	<b>SK110B</b>	150	24	27.3	8	120	130	110	M8x12	5	302	9

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	kg
		M6 15	102	7	12.5	12.5	11	82	75	60	M5x10	4	281	9
<b>A 10 2</b>	<b>SC60A</b>	M6 15	102	7	12.5	12.5	11	82	75	60	M5x10	4	281	9
<b>A 10 2</b>	<b>SC60B</b>	M6 15	102	7	12.5	12.5	14	82	75	60	M5x10	4	281	9
<b>A 10 2</b>	<b>SC80A</b>	M6 15	115	6	12.5	12.5	14	90	100	80	M6x12	4	281	9
<b>A 10 2</b>	<b>SC80C</b>	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	325.5	10
<b>A 10 2</b>	<b>SC95A</b>	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	325.5	10
<b>A 10 2</b>	<b>SC95B</b>	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	325.5	10
<b>A 10 2</b>	<b>SC95C</b>	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	325.5	10
<b>A 10 2</b>	<b>SC110A</b>	M6 15	150	16.5	16	17.75	19	120	130	110	M8x16	5	325.5	12
<b>A 10 2</b>	<b>SC110B</b>	M6 15	150	16.5	16	17.75	24	120	130	110	M8x16	5	325.5	12



## A 10...SK / SC



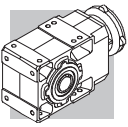
SK...

SC...

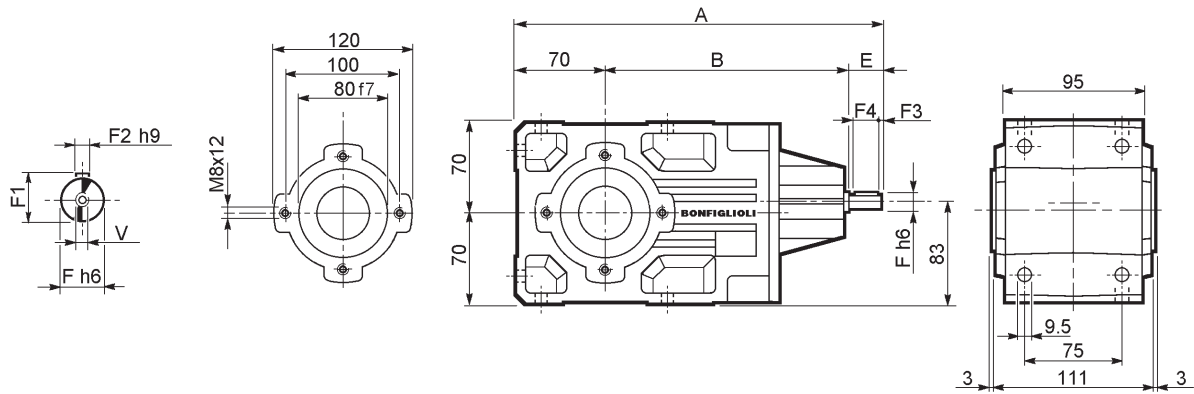
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		D	M	M1	M2	N	N1	N2	N4	X	P	
A 10 2	SK60A	4.016	0.433 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.504	0.157 <sup>+0.0012</sup> / <sub>+0</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.138	10.000	18
A 10 2	SK60B	4.016	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.157	10.276	18
A 10 2	SK80A	4.528	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	3.543	3.937	3.150	<i>M6x12</i>	0.157	10.276	18
A 10 2	SK80C	4.724	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	11.890	20
A 10 2	SK95A	5.118	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	11.890	20
A 10 2	SK95B	5.118	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	11.890	20
A 10 2	SK95C	5.118	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0012</sup> / <sub>+0</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	11.890	20
A 10 2	SK110A	5.906	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0014</sup> / <sub>+0</sub>	4.724	5.118	4.331	<i>M8x12</i>	0.197	11.890	20
A 10 2	SK110B	5.906	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	4.724	5.118	4.331	<i>M8x12</i>	0.197	11.890	20

			Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P	
A 10 2	SC60A	M6	133	4.016	0.276	0.492	0.492	0.433 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.157	11.063	20
A 10 2	SC60B	M6	133	4.016	0.276	0.492	0.492	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.157	11.063	20
A 10 2	SC80A	M6	133	4.528	0.236	0.492	0.492	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.543	3.937	3.150	<i>M6x12</i>	0.157	11.063	20
A 10 2	SC80C	M6	133	4.724	0.610	0.571	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	12.815	22
A 10 2	SC95A	M6	133	5.118	0.650	0.591	0.699	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	12.815	22
A 10 2	SC95B	M6	133	5.118	0.650	0.591	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	12.815	22
A 10 2	SC95C	M6	133	5.118	0.650	0.591	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	12.815	22
A 10 2	SC110A	M6	133	5.906	0.650	0.630	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	<i>M8x16</i>	0.197	12.815	26
A 10 2	SC110B	M6	133	5.906	0.650	0.630	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	<i>M8x16</i>	0.197	12.815	26



## A 10...HS

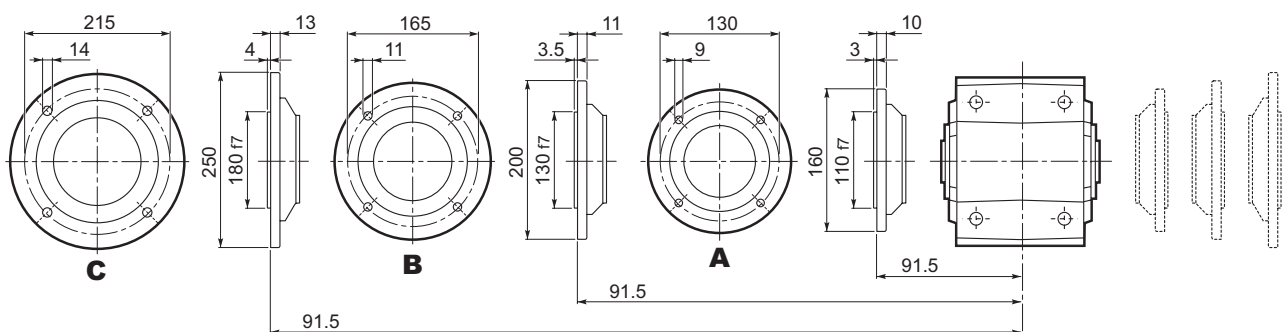


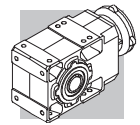
Dimensões em mm

		A	B	E	F	F1	F2	F3	F4	V	
<b>A 10 2</b>	<b>HS</b>	289.5	179.5	40	16	18	5	2.5	35	M6x16	7.8

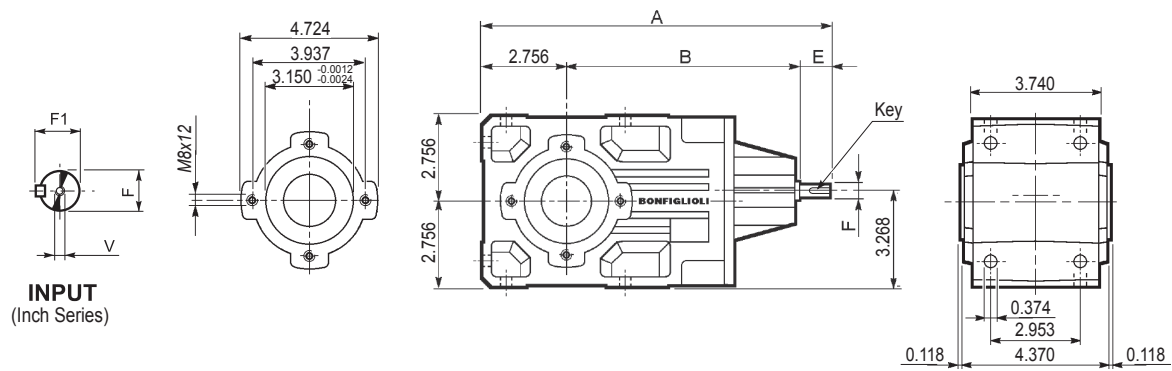
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

## A 10...F...





## A 10...NHS

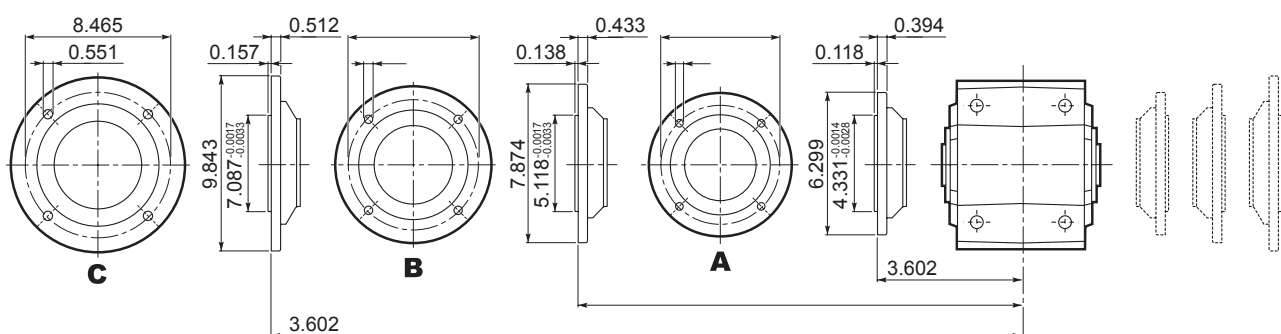


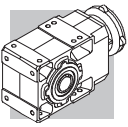
Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

		A	B	E	F	F1	V	Key	
A 10 2	NHS	11.398	7.067	1.575	0.625 <sup>+0</sup> / <sub>-0.0004</sub>	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	17

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

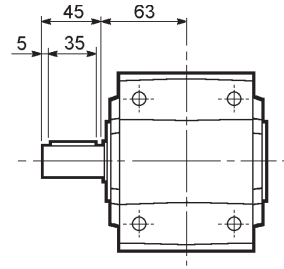
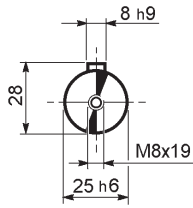
## A 10...F...



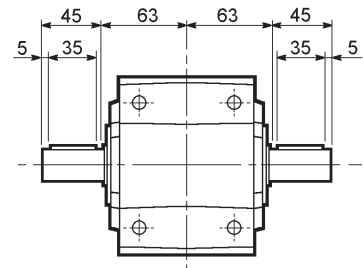
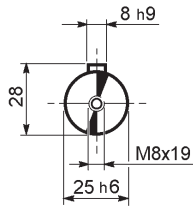


# A 10

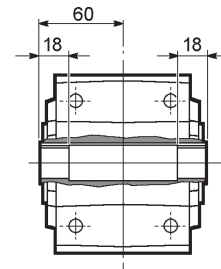
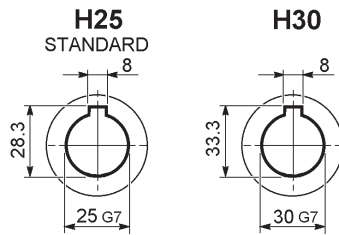
## A 10...UR



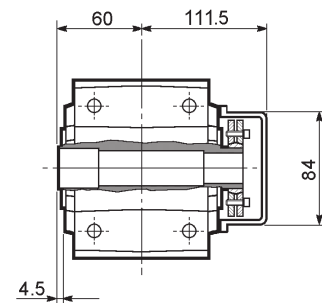
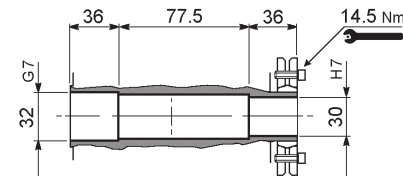
## A 10...UD



## A 10...UH

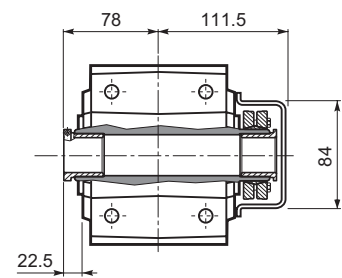
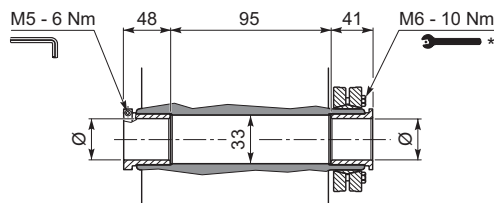


## A 10...US

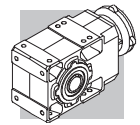


## A 10...QF

	Ø
QF25	25
QF30	30



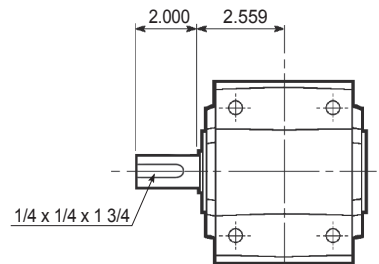
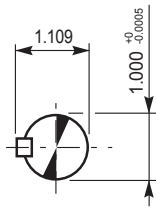
\* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.



# A 10

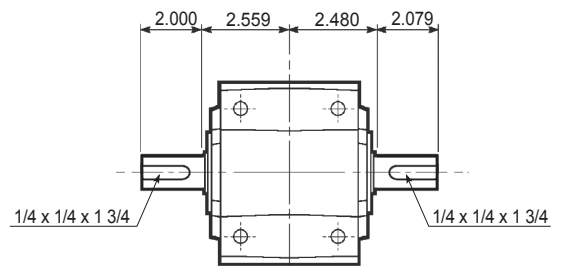
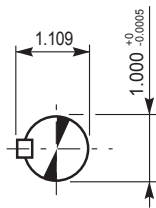
## A 10...NUR

OUTPUT  
(Inch Series)



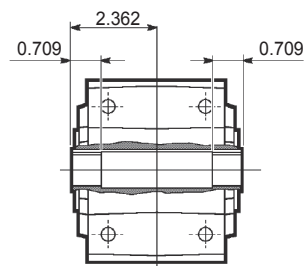
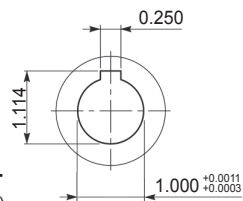
## A 10...NUD

OUTPUT  
(Inch Series)

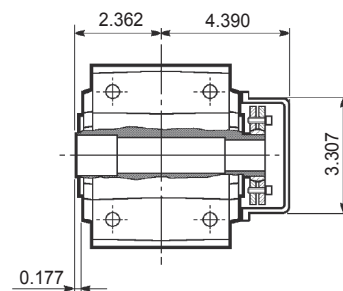
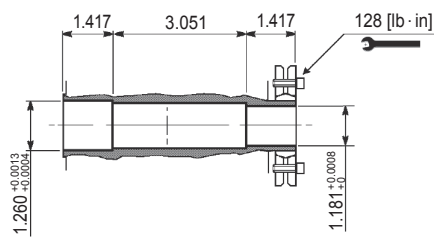


## A 10...NUH

OUTPUT  
(Inch Series)

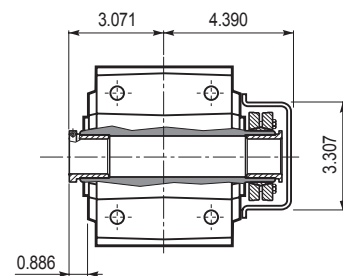
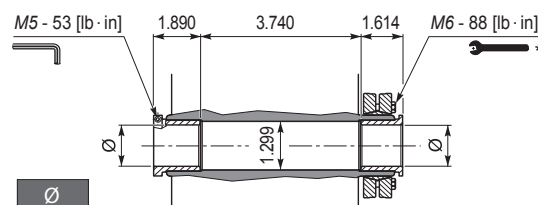


## A 10...US



## A 10...NQF

	Ø
NQF1	1.000
NQF1-3/16	1.188

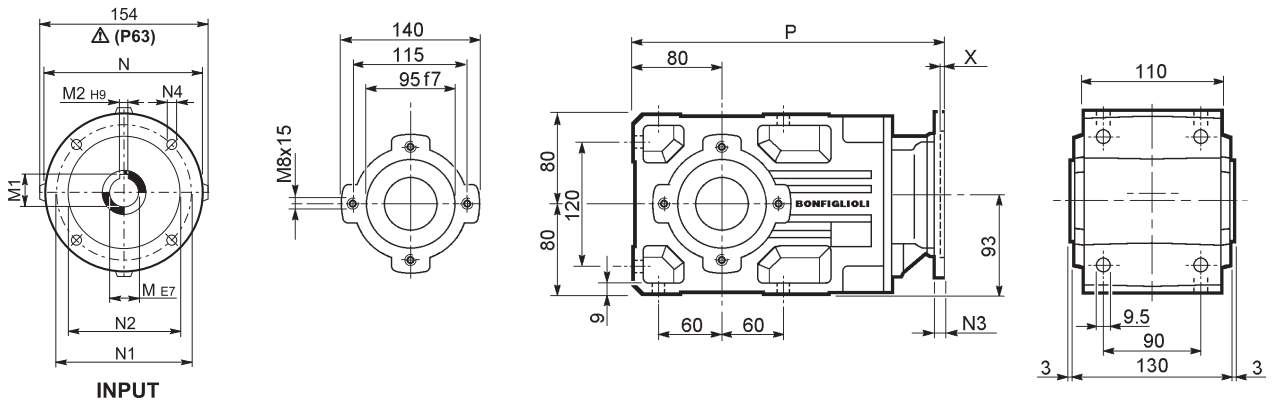


\* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.





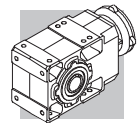
## A 20...P(IEC)



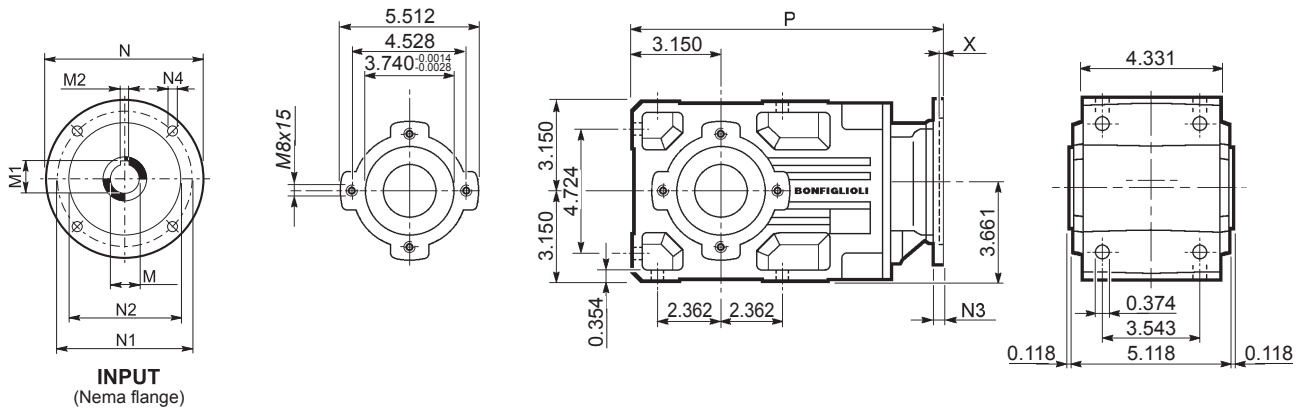
Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 20 2	P63	11	12.8	4	140	115	95	—	M8x19	4	306	12
A 20 2	P71	14	16.3	5	160	130	110	—	M8x16	4.5	306	12
A 20 2	P80	19	21.8	6	200	165	130	—	M10x12	4	325.5	13
A 20 2	P90	24	27.3	8	200	165	130	—	M10x12	4	325.5	13
A 20 2	P100	28	31.3	8	250	215	180	—	M12x16	4.5	335.5	17
A 20 2	P112	28	31.3	8	250	215	180	—	M12x16	4.5	335.5	17
A 20 3	P63	11	12.8	4	140	115	95	—	M8x19	4	361.5	13
A 20 3	P71	14	16.3	5	160	130	110	—	M8x16	4.5	361.5	13
A 20 3	P80	19	21.8	6	200	165	130	—	M10x12	4	381	14
A 20 3	P90	24	27.3	8	200	165	130	—	M10x12	4	381	14
A 20 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	391	18
A 20 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	391	18




Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA



## A 20...N(NEMA Input)



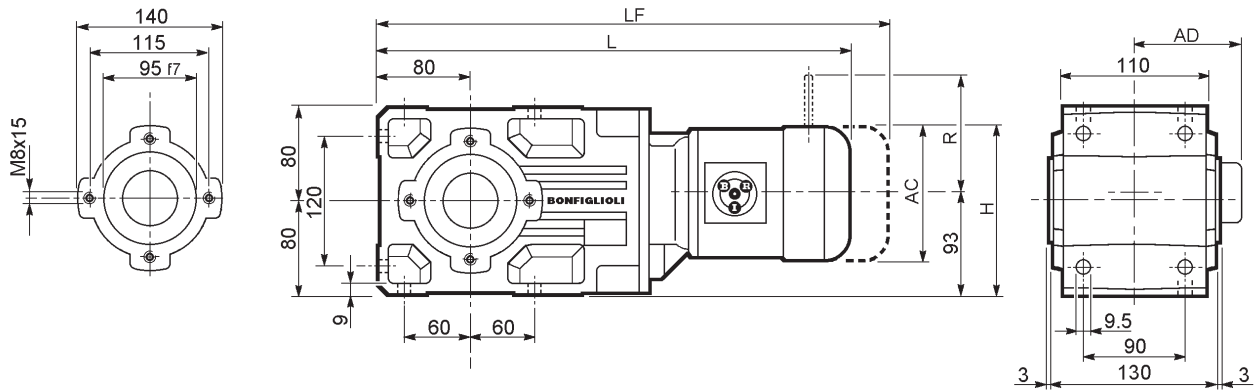
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		M	M1	M2	N	N1	N2	N3	N4	X	P	
<b>A 20 2</b>	<b>N56C</b>	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	12.835	26
<b>A 20 2</b>	<b>N140TC</b>	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	12.835	29
<b>A 20 2</b>	<b>N180TC</b>	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.630	0.551	0.217	13.661	37
<b>A 20 3</b>	<b>N56C</b>	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	12.835	26
<b>A 20 3</b>	<b>N140TC</b>	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	12.835	29
<b>A 20 3</b>	<b>N180TC</b>	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.630	0.551	0.217	13.661	37

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC



## A 20...M/ME

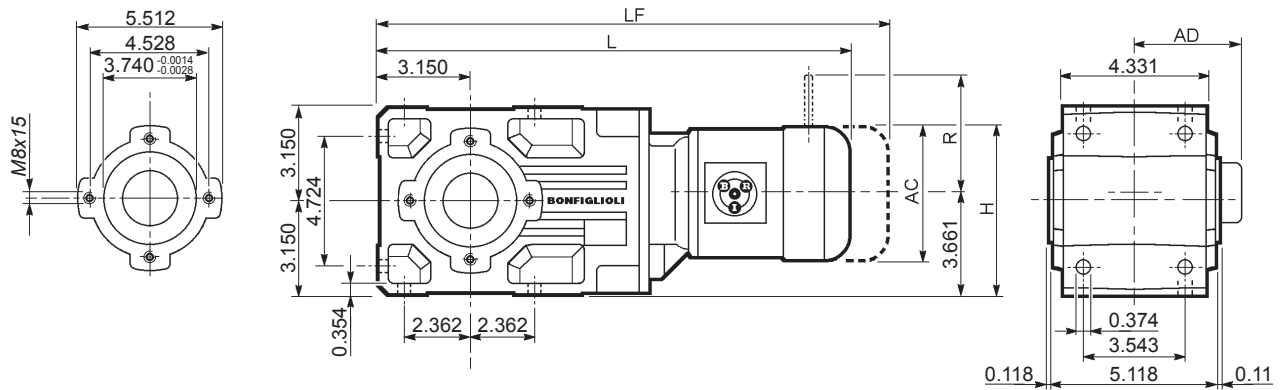


Dimensões em mm

			AC	H	L	AD	Kg	M...FD M...FA		M...FD		M...FA	
								LF	Kg	R	AD	R	AD
A 20 2	S05	M05	121	143.5	432	95	16	498	18	96	122	116	95
A 20 2	S1	M1	138	152	461	108	18	522	21	103	135	124	108
A 20 2	S2	ME2S	156	161	490	119	22	—	—	—	—	—	—
A 20 2	S3	ME3S	195	180.5	533	142	28.5	—	—	—	—	—	—
A 20 2	S3	ME3L	195	180.5	565	142	34	—	—	—	—	—	—
A 20 3	S05	M05	121	143.5	457.5	95	16	553.5	18	96	122	116	95
A 20 3	S1	M1	138	152	486.5	108	19	577.5	21	103	135	124	108
A 20 3	S2	ME2S	156	161	545.5	119	23	—	—	—	—	—	—
A 20 3	S3	ME3S	195	180.5	588.5	142	29.5	—	—	—	—	—	—
A 20 3	S3	ME3L	195	180.5	620.5	142	35	—	—	—	—	—	—

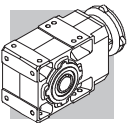


## A 20...M/ME

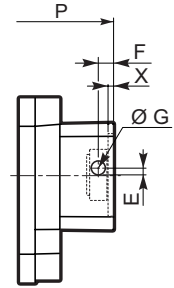
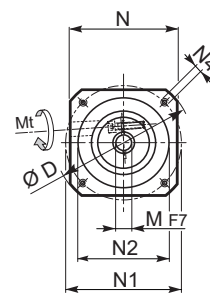
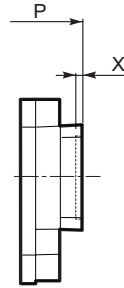
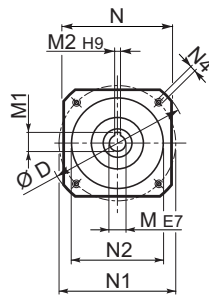
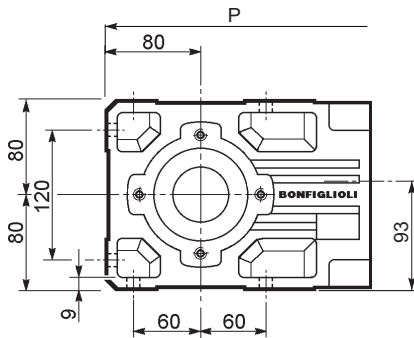


Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

			AC	H	L	AD	lbs	M...FD		M...FD		M...FA	
								LF	lbs	R	AD	R	AD
A 20 2	S05	M05	4.764	5.650	17.008	3.740	35	19.606	40	3.780	4.803	4.567	3.740
A 20 2	S1	M1	5.433	5.984	18.150	4.252	40	20.551	46	4.055	5.315	4.882	4.252
A 20 2	S2	ME2S	6.142	6.339	19.291	4.685	49	—	—	—	—	—	—
A 20 2	S3	ME3S	7.677	7.106	20.984	5.591	63	—	—	—	—	—	—
A 20 2	S3	ME3L	7.677	7.106	22.244	5.591	75	—	—	—	—	—	—
A 20 3	S05	M05	4.764	5.650	18.012	3.740	35	21.791	40	3.780	4.803	4.567	3.740
A 20 3	S1	M1	5.433	5.984	19.154	4.252	42	22.736	46	4.055	5.315	4.882	4.252
A 20 3	S2	ME2S	6.142	6.339	21.476	4.685	51	—	—	—	—	—	—
A 20 3	S3	ME3S	7.677	7.106	23.169	5.591	65	—	—	—	—	—	—
A 20 3	S3	ME3L	7.677	7.106	24.429	5.591	77	—	—	—	—	—	—



## A 20...SK / SC



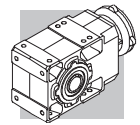
SK...

SC...

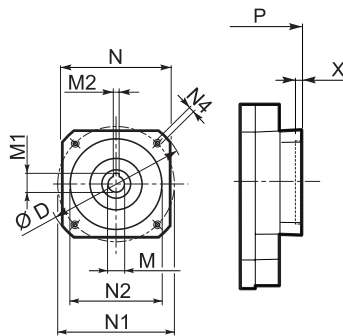
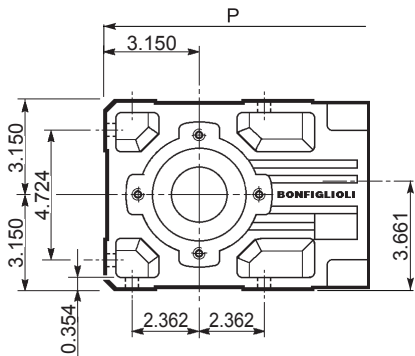
Dimensões em mm

		D	M	M1	M2	N	N1	N2	N4	X	P	Kg	
											2x	3x	
A 20 2/3	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	277.5	333	11/12
A 20 2/3	SK60B	102	14	16.3	5	82	75	60	M5x10	4	284.5	340	12/13
A 20 2/3	SK80A	115	14	16.3	5	90	100	80	M6x12	4	284.5	340	12/13
A 20 2/3	SK80C	120	19	21.8	6	96	100	80	M6x12	4	325.5	381	13/14
A 20 2/3	SK95A	130	14	16.3	5	102	115	95	M8x12	4	325.5	381	13/14
A 20 2/3	SK95B	130	19	21.8	6	102	115	95	M8x12	4	325.5	381	13/14
A 20 2/3	SK95C	130	24	27.3	8	102	115	95	M8x12	4	325.5	381	13/14
A 20 2/3	SK110A	150	19	21.8	6	120	130	110	M8x12	5	325.5	381	13/14
A 20 2/3	SK110B	150	24	27.3	8	120	130	110	M8x12	5	325.5	381	13/14

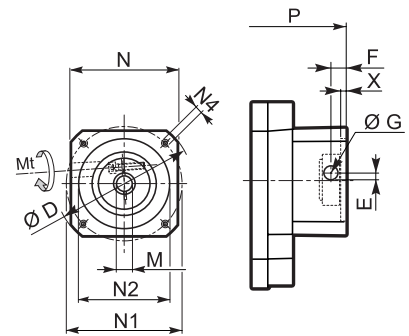
		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	Kg	
													2x	3x	
A 20 2/3	SC60A	M6 15	102	7	12.5	12.5	11	82	75	60	M5x10	4	304.5	360	12/13
A 20 2/3	SC60B	M6 15	102	7	12.5	12.5	14	82	75	60	M5x10	4	304.5	360	13/14
A 20 2/3	SC80A	M6 15	115	6	12.5	12.5	14	90	100	80	M6x12	4	304.5	360	13/14
A 20 2/3	SC80C	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	349	404.5	14/15
A 20 2/3	SC95A	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	349	404.5	14/15
A 20 2/3	SC95B	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	349	404.5	14/15
A 20 2/3	SC95C	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	349	404.5	14/15
A 20 2/3	SC110A	M6 15	150	16.5	16	17.75	19	120	130	110	M8x16	5	349	404.5	15/16
A 20 2/3	SC110B	M6 15	150	16.5	16	17.75	24	120	130	110	M8x16	5	349	404.5	15/16



## A 20...SK / SC



**SK...**



**SC...**

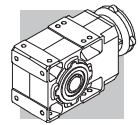
Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

Motor	Shaft	D	M	M1	M2	N	N1	N2	N4	X	P		lbs
											2x	3x	
A 20 2/3	SK60A	4.016	0.433 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.504	0.157 <sup>+0.0012</sup> / <sub>+0</sub>	3.228	2.953	2.362	M5x10	0.138	10.925	13.110	24/26
A 20 2/3	SK60B	4.016	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	3.228	2.953	2.362	M5x10	0.157	11.201	13.386	26/29
A 20 2/3	SK80A	4.528	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	3.543	3.937	3.150	M6x12	0.157	11.201	13.386	26/29
A 20 2/3	SK80C	4.724	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	3.780	3.937	3.150	M6x12	0.157	12.815	15.000	29/31
A 20 2/3	SK95A	5.118	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	4.016	4.528	3.740	M8x12	0.157	12.815	15.000	26/31
A 20 2/3	SK95B	5.118	0.748 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	4.016	4.528	3.740	M8x12	0.157	12.815	15.000	29/31
A 20 2/3	SK95C	5.118	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	4.016	4.528	3.740	M8x12	0.157	12.815	15.000	29/31
A 20 2/3	SK110A	5.906	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	4.724	5.118	4.331	M8x12	0.197	12.815	15.000	31/31
A 20 2/3	SK110B	5.906	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	4.724	5.118	4.331	M8x12	0.197	12.815	15.000	29/31

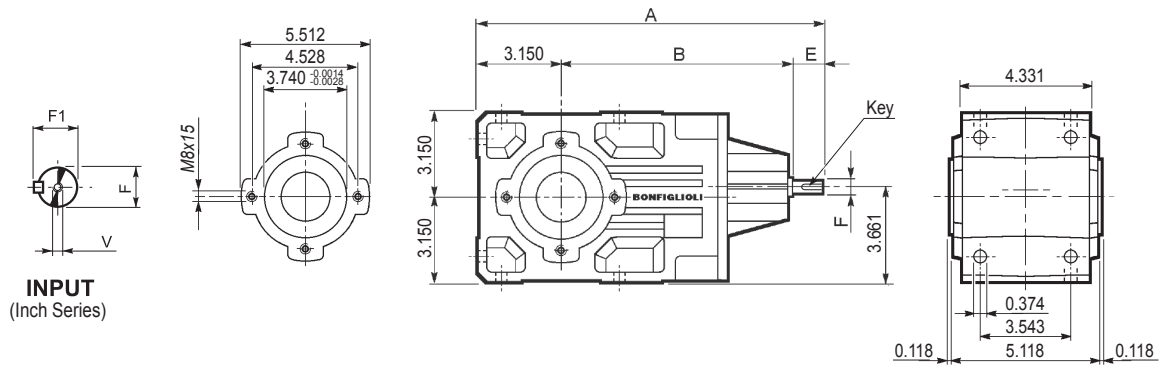
Motor	Shaft	Mt [lb-in]	D	E	F	G	M	N	N1	N2	N4	X	P		lbs
													2x	3x	
A 20 2/3	SC60A	M6 133	4.016	0.276	0.492	0.492	0.433 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.228	2.953	2.362	M5x10	0.157	11.988	14.173	26/29
A 20 2/3	SC60B	M6 133	4.016	0.276	0.492	0.492	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.228	2.953	2.362	M5x10	0.157	11.988	14.173	29/31
A 20 2/3	SC80A	M6 133	4.528	0.236	0.492	0.492	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.543	3.937	3.150	M6x12	0.157	11.988	14.173	29/31
A 20 2/3	SC80C	M6 133	4.724	0.610	0.571	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	3.780	3.937	3.150	M6x12	0.157	13.740	15.925	31/33
A 20 2/3	SC95A	M6 133	5.118	0.650	0.591	0.699	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	4.016	4.528	3.740	M8x16	0.157	13.740	15.925	31/33
A 20 2/3	SC95B	M6 133	5.118	0.650	0.591	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	M8x16	0.157	13.740	15.925	31/33
A 20 2/3	SC95C	M6 133	5.118	0.650	0.591	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	M8x16	0.157	13.740	15.925	31/33
A 20 2/3	SC110A	M6 133	5.906	0.650	0.630	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	M8x16	0.197	13.740	15.925	33/35
A 20 2/3	SC110B	M6 133	5.906	0.650	0.630	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	M8x16	0.197	13.740	15.925	33/35







## A 20...NHS

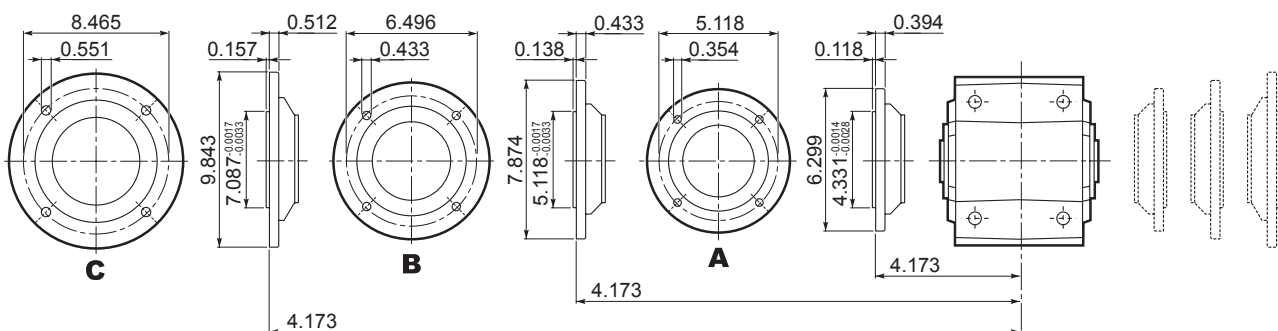


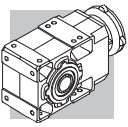
Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

		A	B	E	F	F1	V	Key	lbs		
		A 20 2	NHS	14.016	9.291	1.575	0.750 <sup>+0</sup> / <sub>-0.0005</sub>	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	26
		A 20 3	NHS	14.508	9.783	1.575	0.625 <sup>+0</sup> / <sub>-0.0004</sub>	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	27

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

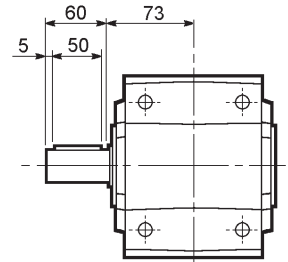
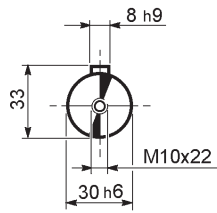
## A 20...F...



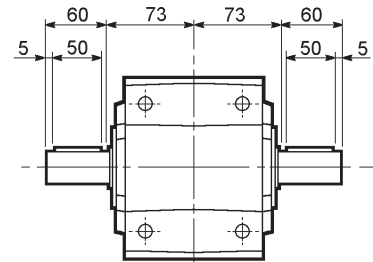
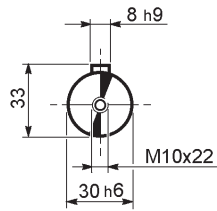


# A 20

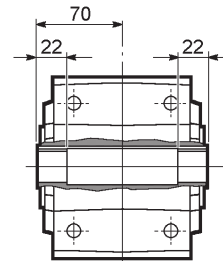
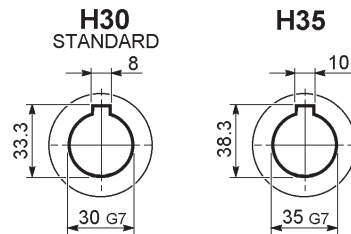
## A 20...UR



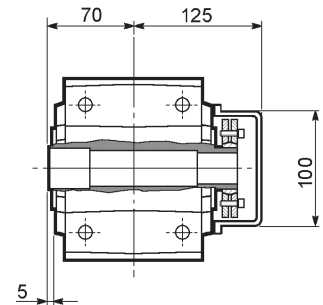
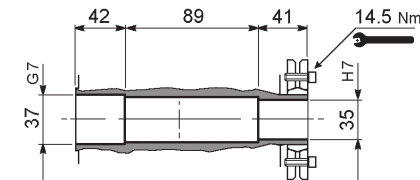
## A 20...UD



## A 20...UH

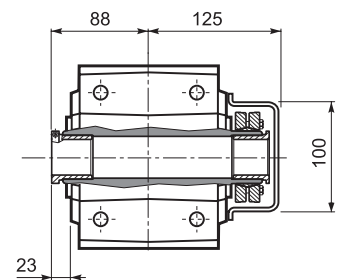
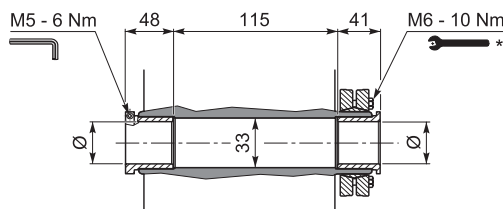


## A 20...US

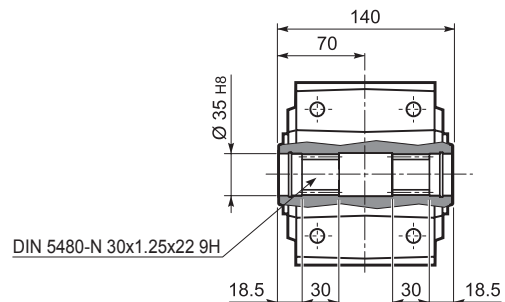


## A 20...QF

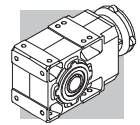
	Ø
QF25	25
QF30	30



## A 20...UV



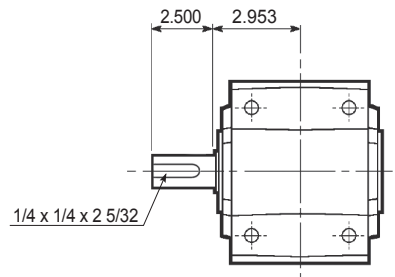
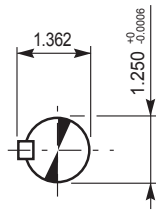
\* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.



# A 20

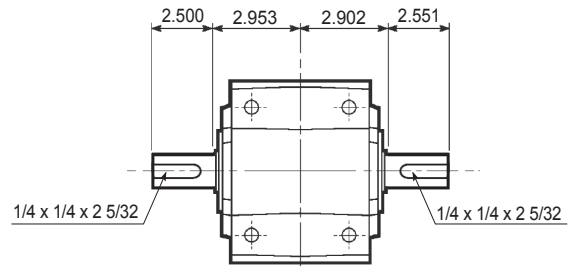
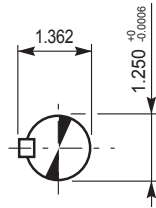
## A 20...NUR

**OUTPUT**  
(Inch Series)



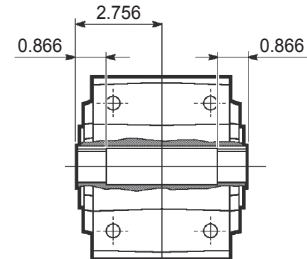
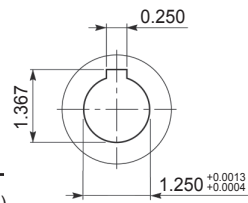
## A 20...NUD

**OUTPUT**  
(Inch Series)

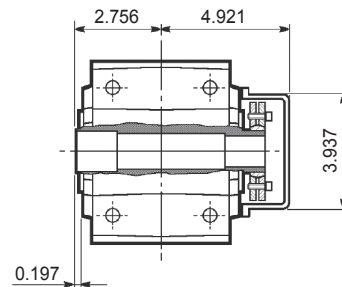
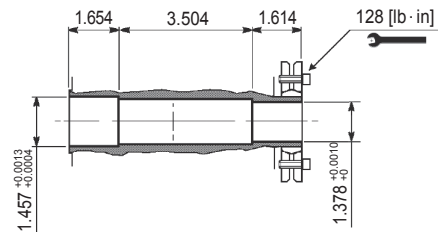


## A 20...NUH

**OUTPUT**  
(Inch Series)

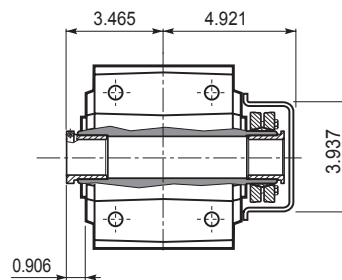
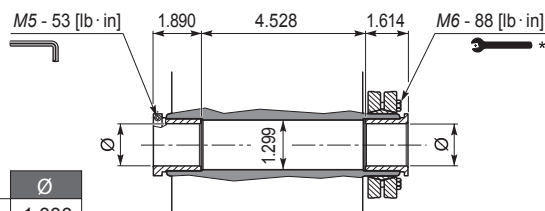


## A 20...US

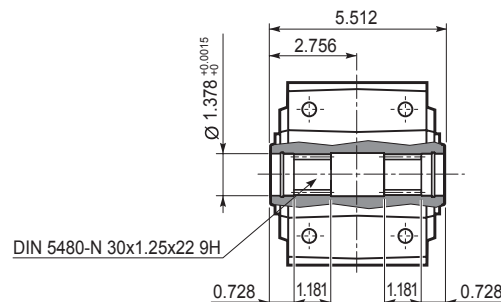


## A 20...NQF

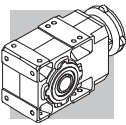
	Ø
NQF1	1.000
NQF1-3/16	1.188



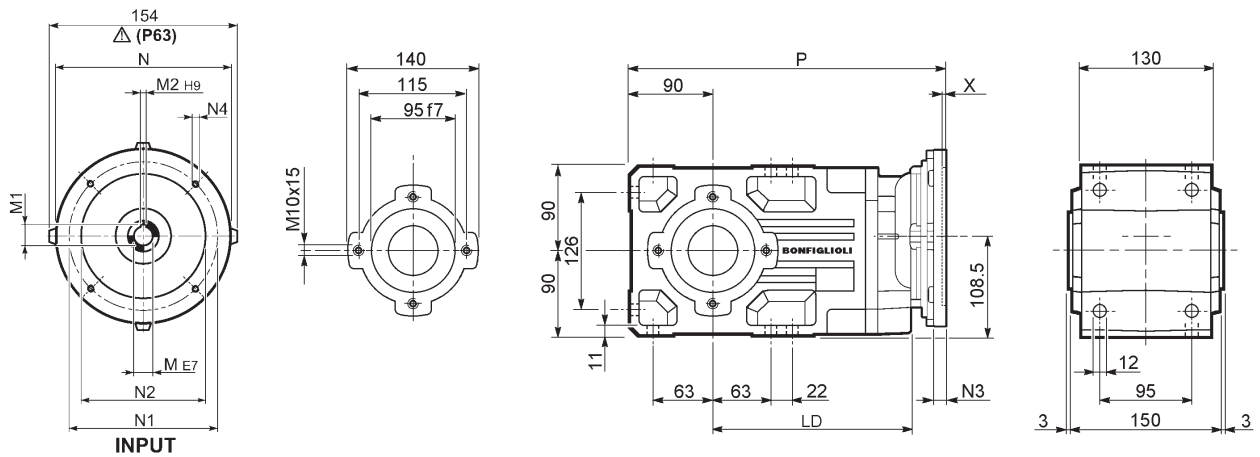
## A 20...UV






\* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.



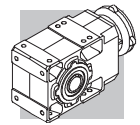
## A 30...P(IEC)



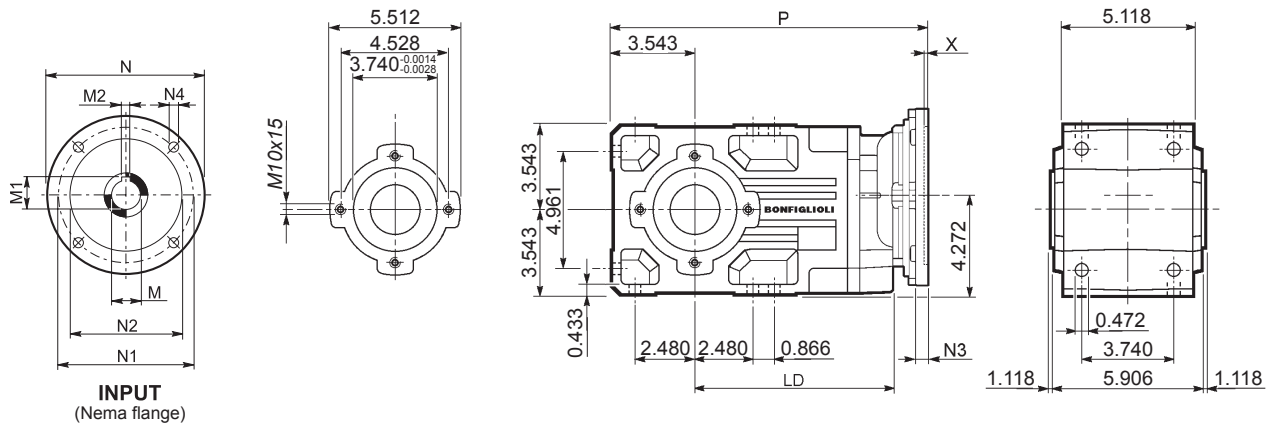
Dimensões em mm

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	
A 30 2	P63	213	11	12.8	4	140	115	95	—	M8x19	4	333	16
A 30 2	P71	213	14	16.3	5	160	130	110	—	M8x16	4.5	333	16
A 30 2	P80	223	19	21.8	6	200	165	130	—	M10x12	4	352.5	17
A 30 2	P90	223	24	27.3	8	200	165	130	—	M10x12	4	352.5	17
A 30 2	P100	223	28	31.3	8	250	215	180	—	M12x16	4.5	362.5	20
A 30 2	P112	223	28	31.3	8	250	215	180	—	M12x16	4.5	362.5	20
A 30 3	P63	—	11	12.8	4	140	115	95	—	M8x19	4	390.5	17
A 30 3	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	390.5	17
A 30 3	P80	—	19	21.8	6	200	165	130	—	M10x12	4	410	18
A 30 3	P90	—	24	27.3	8	200	165	130	—	M10x12	4	410	18
A 30 3	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	420	22
A 30 3	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	420	22

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA



## A 30...N(NEMA Input)

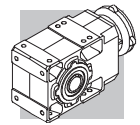


Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

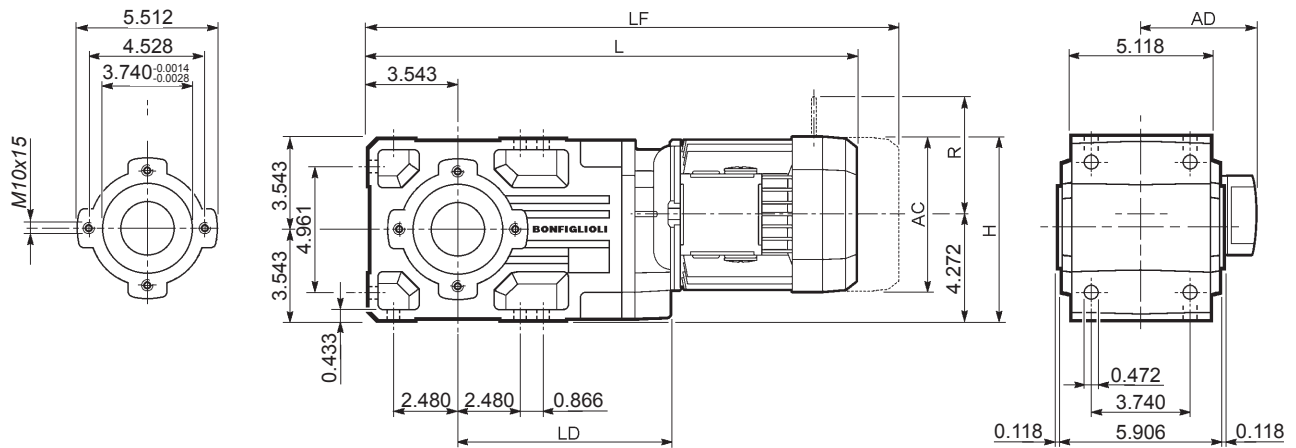
		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	
<b>A 30 2</b>	<b>N56C</b>	8.386	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0.0012</sup> / <sub>+</sub>	6.496	5.875	4.500	0.472	0.394	0.197	13.898	35
<b>A 30 2</b>	<b>N140TC</b>	8.386	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+</sub>	6.496	5.875	4.500	0.472	0.394	0.197	13.898	37
<b>A 30 2</b>	<b>N180TC</b>	8.780	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+</sub>	8.996	7.250	8.500	0.630	0.551	0.217	14.724	44
<b>A 30 3</b>	<b>N56C</b>	—	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0.0012</sup> / <sub>+</sub>	6.496	5.875	4.500	0.472	0.394	0.197	16.161	37
<b>A 30 3</b>	<b>N140TC</b>	—	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+</sub>	6.496	5.875	4.500	0.472	0.394	0.197	16.161	40
<b>A 30 3</b>	<b>N180TC</b>	—	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+</sub>	8.996	7.250	8.500	0.630	0.551	0.217	16.988	49

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC










## A 30...M/ME



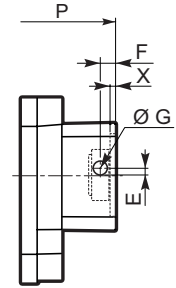
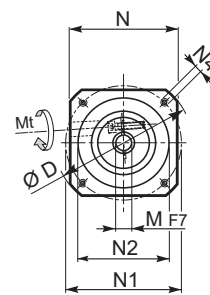
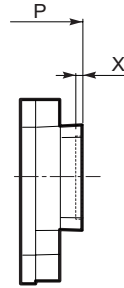
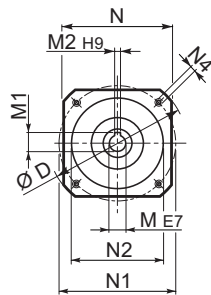
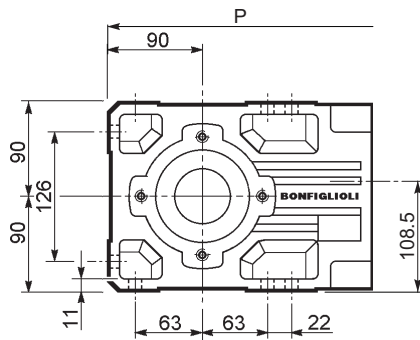
Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

  	AC	H	L	LD	AD		M...FD M...FA		M...FD		M...FA	
							LF		R	AD	R	AD
A 30 2 S1 M1	5.433	6.988	19.213	7.913	4.252	49	21.614	53	4.055	5.315	4.882	4.252
A 30 2 S2 ME2S	6.142	7.343	20.354	8.386	4.685	55	—	—	—	—	—	—
A 30 2 S3 ME3S	7.677	8.110	22.047	8.780	5.591	69	—	—	—	—	—	—
A 30 2 S3 ME3L	7.677	8.110	23.307	8.780	5.591	84	—	—	—	—	—	—
A 30 3 S05 M05	4.764	6.654	20.335	—	3.740	46	22.933	49	3.780	4.803	4.567	3.740
A 30 3 S1 M1	5.433	6.988	21.476	—	4.252	51	23.878	57	4.055	5.315	4.882	4.252
A 30 3 S2 ME2S	6.142	7.343	22.618	—	4.685	55	—	—	—	—	—	—
A 30 3 S3 ME3S	7.677	8.110	24.311	—	5.591	69	—	—	—	—	—	—
A 30 3 S3 ME3L	7.677	8.110	25.571	—	5.591	84	—	—	—	—	—	—





## A 30...SK / SC



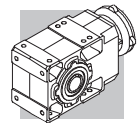
SK...

SC...

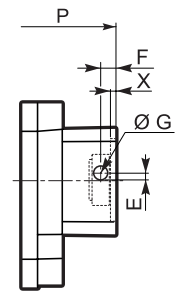
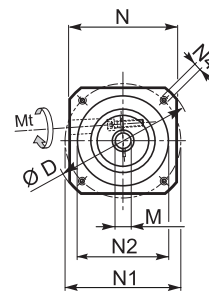
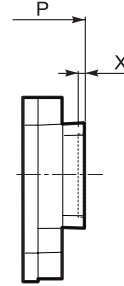
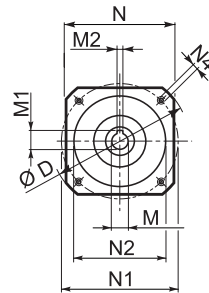
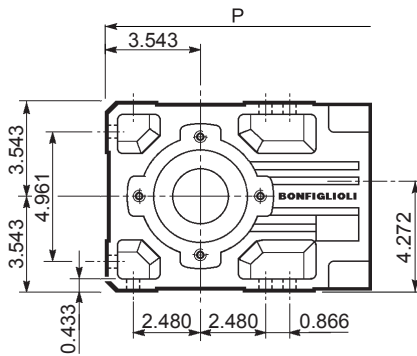
Dimensões em mm

		D	M	M1	M2	N	N1	N2	N4	X	P		Kg
											2x	3x	
A 30 2/3	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	304.5	362	15/16
A 30 2/3	SK60B	102	14	16.3	5	82	75	60	M5x10	4	311.5	369	16/17
A 30 2/3	SK80A	115	14	16.3	5	90	100	80	M6x12	4	311.5	369	16/17
A 30 2/3	SK80C	120	19	21.8	6	96	100	80	M6x12	4	352.5	410	17/18
A 30 2/3	SK95A	130	14	16.3	5	102	115	95	M8x12	4	352.5	410	17/18
A 30 2/3	SK95B	130	19	21.8	6	102	115	95	M8x12	4	352.5	410	17/18
A 30 2/3	SK95C	130	24	27.3	8	102	115	95	M8x12	4	352.5	410	17/18
A 30 2/3	SK110A	150	19	21.8	6	120	130	110	M8x12	5	352.5	410	17/18
A 30 2/3	SK110B	150	24	27.3	8	120	130	110	M8x12	5	352.5	410	17/18
A 30 2	SK130A	188	24	27.3	8	142	165	130	M10x20	5	352.5	—	18

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		Kg
													2x	3x	
A 30 2/3	SC60A	M6 15	102	7	12.5	12.5	11	82	75	60	M5x10	4	331.5	389	16/17
A 30 2/3	SC60B	M6 15	102	7	12.5	12.5	14	82	75	60	M5x10	4	331.5	389	17/18
A 30 2/3	SC80A	M6 15	115	6	12.5	12.5	14	90	100	80	M6x12	4	331.5	389	17/18
A 30 2/3	SC80C	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	376	433.5	18/19
A 30 2/3	SC95A	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	376	433.5	18/19
A 30 2/3	SC95B	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	376	433.5	18/19
A 30 2/3	SC95C	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	376	433.5	18/19
A 30 2/3	SC 110A	M6 15	150	16.5	16	17.75	19	120	130	110	M8x16	5	376	433.5	19/20
A 30 2/3	SC 110B	M6 15	150	16.5	16	17.75	24	120	130	110	M8x16	5	376	433.5	19/20
A 30 2	SC 130A	M6 15	188	19	16	17.75	24	142	165	130	M10x20	5	376	—	20



## A 30...SK / SC



**SK...**

**SC...**

Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

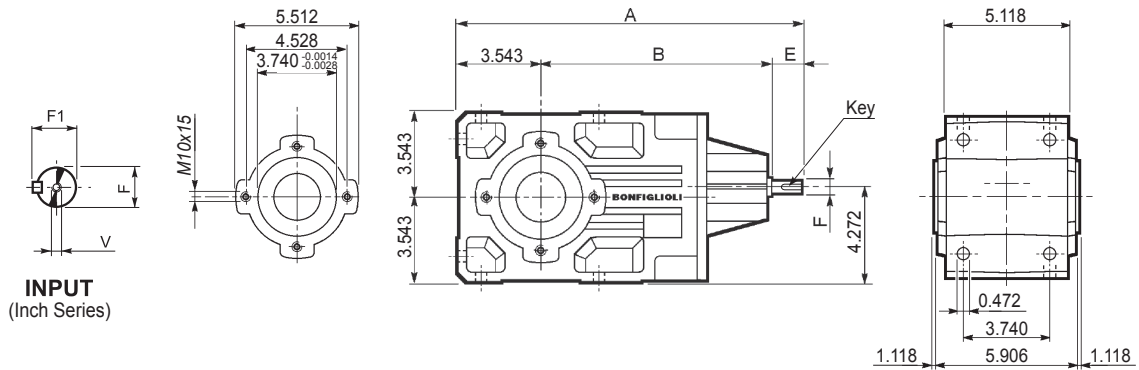
Icon	Icon	D	M	M1	M2	N	N1	N2	N4	X	P		lbs
											2x	3x	
A 30 2/3	SK60A	4.016	0.433 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.504	0.157 <sup>+0.0012</sup> / <sub>+0</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.138	11.988	14.252	33/35
A 30 2/3	SK60B	4.016	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.157	12.264	14.528	35/37
A 30 2/3	SK80A	4.528	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	3.543	3.937	3.150	<i>M6x12</i>	0.157	12.264	14.528	35/37
A 30 2/3	SK80C	4.724	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	13.878	16.142	37/40
A 30 2/3	SK95A	5.118	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	13.878	16.142	37/40
A 30 2/3	SK95B	5.118	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	13.878	16.142	37/40
A 30 2/3	SK95C	5.118	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	13.878	16.142	37/40
A 30 2/3	SK110A	5.906	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	4.724	5.118	4.331	<i>M8x12</i>	0.197	13.878	16.142	37/40
A 30 2/3	SK110B	5.906	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	4.724	5.118	4.331	<i>M8x12</i>	0.197	13.878	16.142	37/40
A 30 2	SK130A	7.402	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	5.591	6.496	5.118	<i>M10x20</i>	0.197	13.878	—	40

Icon	Icon	Icon	Mt [lb-in]	D	E	F	G	M	N	N1	N2	N4	X	P		lbs
														2x	3x	
A 30 2/3	SC60A	M6	133	4.016	0.276	0.492	0.492	0.433 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.157	13.051	15.315	35/37
A 30 2/3	SC60B	M6	133	4.016	0.276	0.492	0.492	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.157	13.051	15.315	37/40
A 30 2/3	SC80A	M6	133	4.528	0.236	0.492	0.492	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.543	3.937	3.150	<i>M6x12</i>	0.157	13.051	15.315	37/40
A 30 2/3	SC80C	M6	133	4.724	0.610	0.571	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	14.803	17.067	40/42
A 30 2/3	SC95A	M6	133	5.118	0.650	0.591	0.699	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	14.803	17.067	40/42
A 30 2/3	SC95B	M6	133	5.118	0.650	0.591	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	14.803	17.067	40/42
A 30 2/3	SC95C	M6	133	5.118	0.650	0.591	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	14.803	17.067	40/42
A 30 2/3	SC 110A	M6	133	5.906	0.650	0.630	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	<i>M8x16</i>	0.197	14.803	17.067	42/44
A 30 2/3	SC 110B	M6	133	5.906	0.650	0.630	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	<i>M8x16</i>	0.197	14.803	17.067	42/44
A 30 2	SC 130A	M6	133	7.402	0.748	0.630	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	5.591	6.496	5.118	<i>M10x20</i>	0.197	14.803	—	44





## A 30...NHS

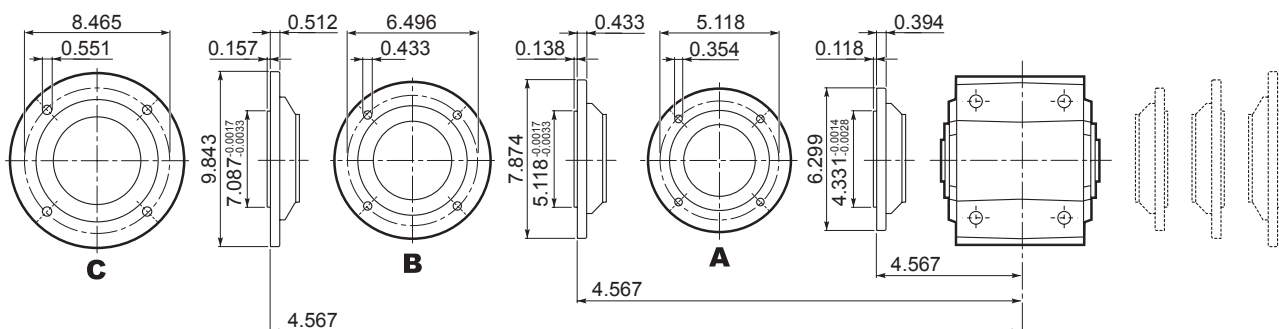


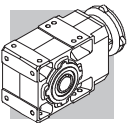
Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

		A	B	E	F	F1	V	Key	
<b>A 30 2</b>	<b>NHS</b>	15.079	9.961	1.575	0.750 <sup>+0</sup> <sub>-0.0005</sub>	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	37
<b>A 30 3</b>	<b>NHS</b>	15.650	10.531	1.575	0.625 <sup>+0</sup> <sub>-0.0004</sub>	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	36

Verões de saída imperiais disponíveis também em combinação com eixo de entrada HS

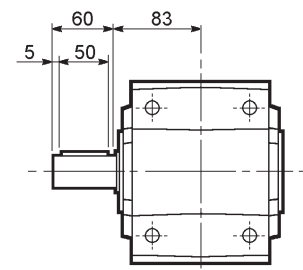
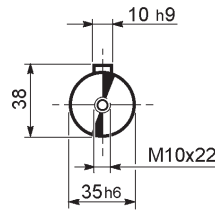
## A 30...F...



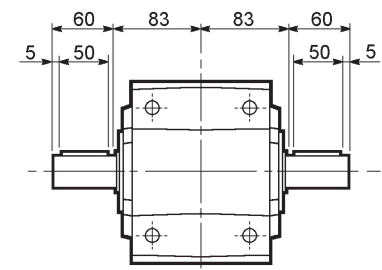
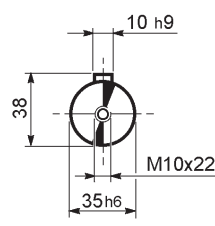


# A 30

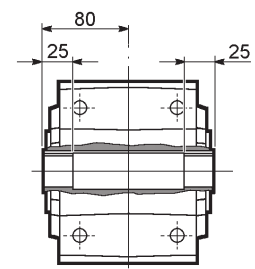
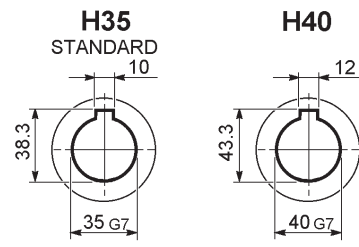
## A 30...UR



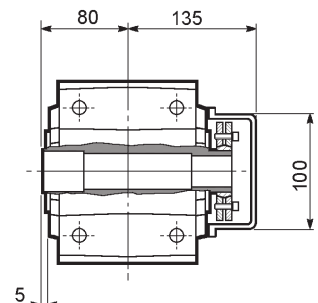
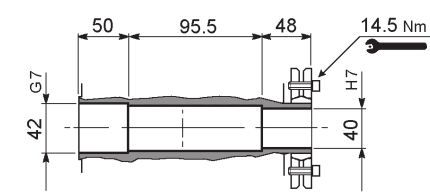
## A 30...UD



## A 30...UH

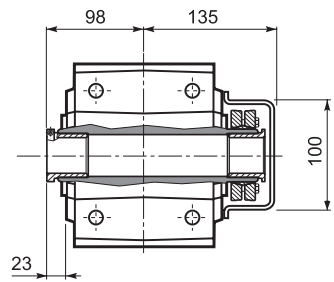
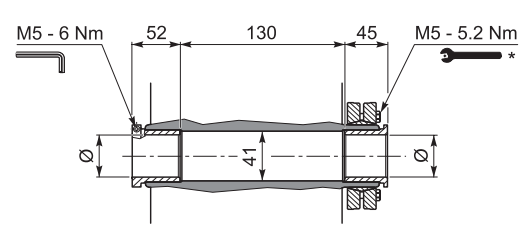


## A 30...US

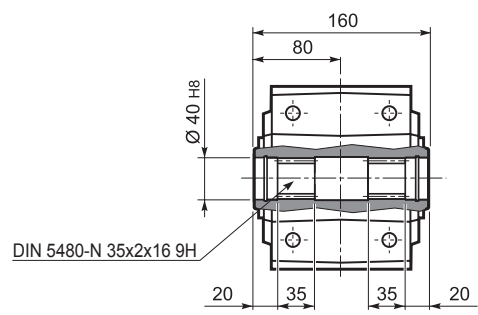


## A 30...QF

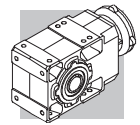
	Ø
QF35	35
QF40	40



## A 30...UV



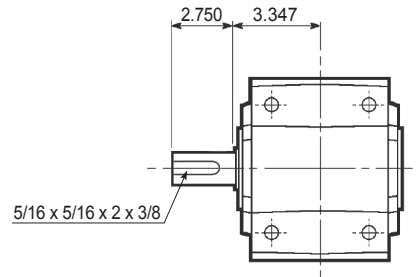
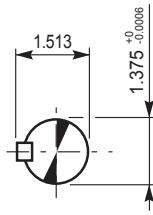
\* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.



# A 30

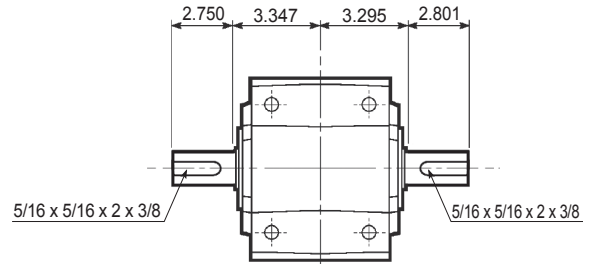
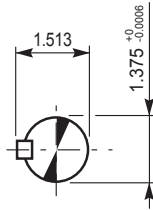
## A 30...NUR

OUTPUT  
(Inch Series)



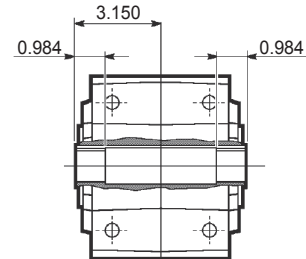
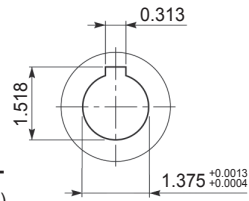
## A 30...NUD

OUTPUT  
(Inch Series)

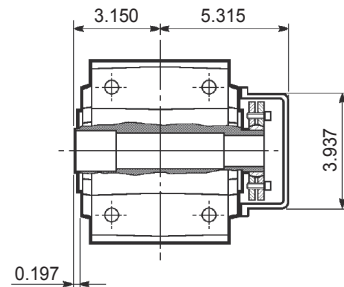
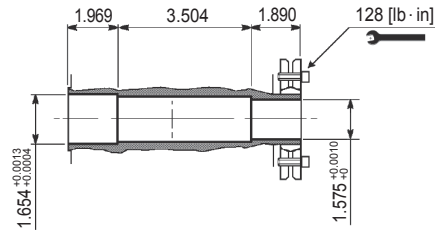


## A 30...NUH

OUTPUT  
(Inch Series)

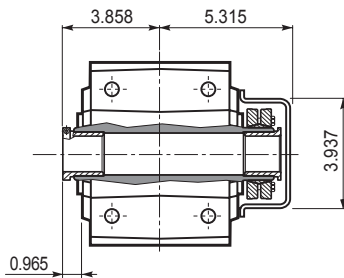
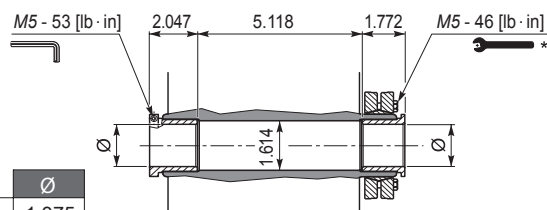


## A 30...US

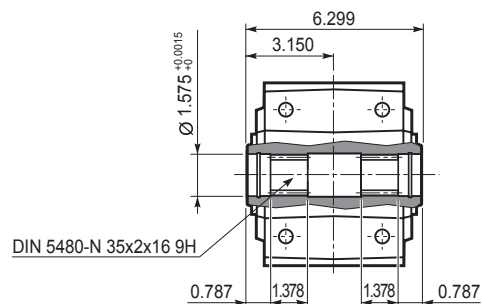


## A 30...NQF

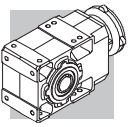
	Ø
NQF1-3/8	1.375
NQF1-7/16	1.438



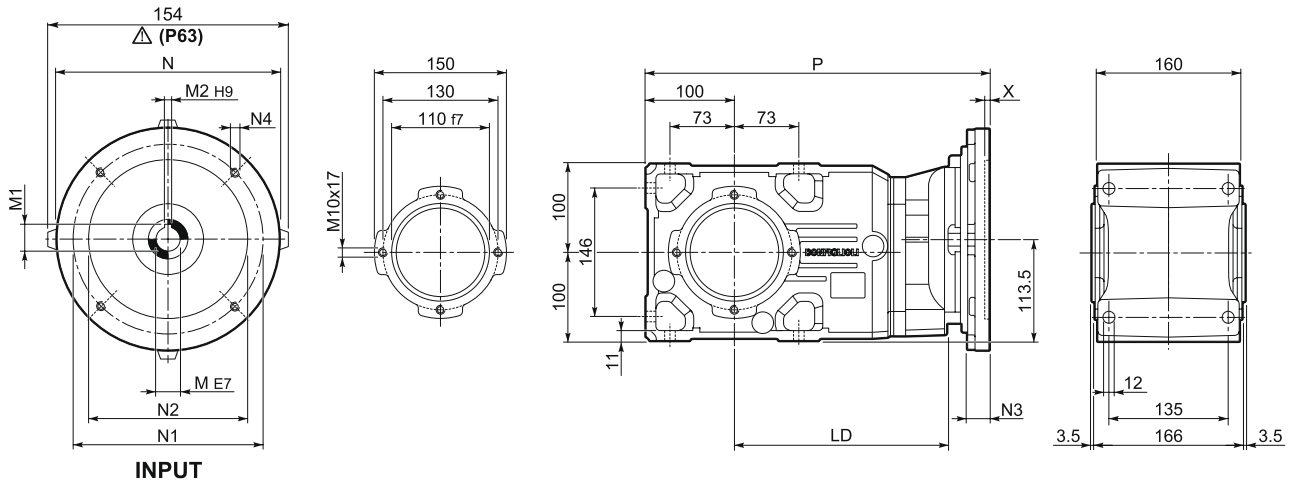
## A 30...UV






\* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.



## A 35...P(IEC)

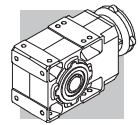


Dimensões em mm

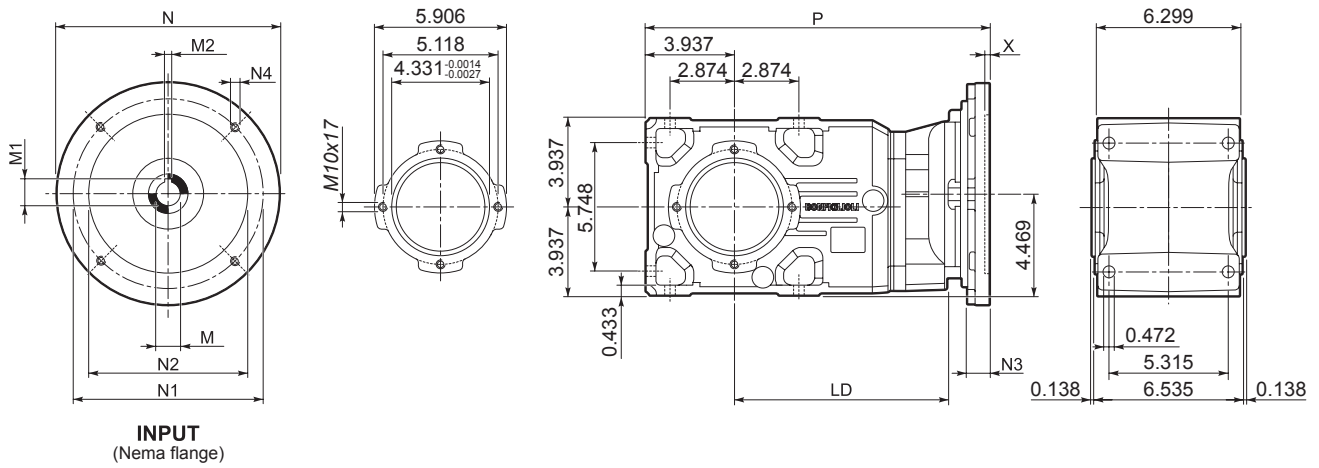
		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	
A 35 2	P63	229.5	11	12.8	4	140	115	95	—	M8x19	4	359.5	28
A 35 2	P71	229.5	14	16.3	5	160	130	110	—	M8x16	4.5	359.5	28
A 35 2	P80	239.5	19	21.8	6	200	165	130	—	M10x12	4	379	29
A 35 2	P90	239.5	24	27.3	8	200	165	130	—	M10x12	4	379	29
A 35 2	P100	239.5	28	31.3	8	250	215	180	—	M12x16	4.5	389	32
A 35 2	P112	239.5	28	31.3	8	250	215	180	—	M12x16	4.5	389	32
A 35 2	P132	—	38	41.3	10	300	265	230	16	14	5	425.5	40
A 35 3	P63	—	11	12.8	4	140	115	95	—	M8x19	4	417	29
A 35 3	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	417	29
A 35 3	P80	—	19	21.8	6	200	165	130	—	M10x12	4	436.5	30
A 35 3	P90	—	24	27.3	8	200	165	130	—	M10x12	4	436.5	30
A 35 3	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	446.5	34
A 35 3	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	446.5	34

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA





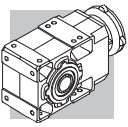
## A 35...N(NEMA Input)



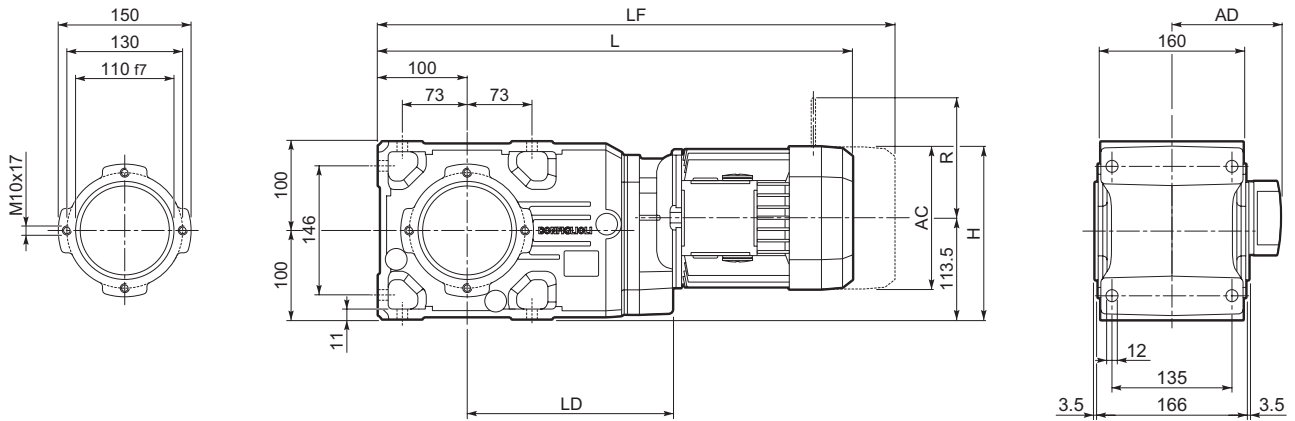
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	
<b>A 35 2</b>	<b>N56C</b>	9.035	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	14.941	62
<b>A 35 2</b>	<b>N140TC</b>	9.035	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	14.941	64
<b>A 35 2</b>	<b>N180TC</b>	9.429	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.630	0.551	0.217	15.768	71
<b>A 35 2</b>	<b>N210TC</b>	—	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.531	0.531	0.217	16.929	88
<b>A 35 3</b>	<b>N56C</b>	—	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	17.205	64
<b>A 35 3</b>	<b>N140TC</b>	—	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	17.205	64
<b>A 35 3</b>	<b>N180TC</b>	—	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.630	0.551	0.217	18.031	75

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

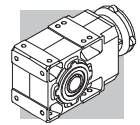


## A 35...M/ME

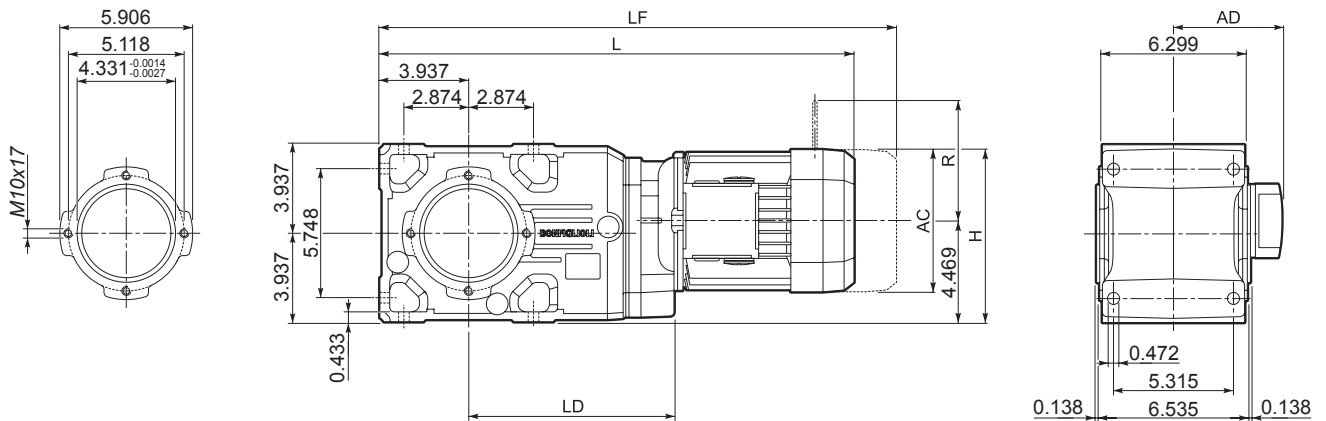


Dimensões em mm

			AC	H	L	LD	AD	Kg	M...FD M...FA		M...FD		M...FA	
									LF	Kg	R	AD	R	AD
A 35 2	S1	M1	138	182.5	514.5	217.5	108	34	575.5	36	103	135	124	108
A 35 2	S2	ME2S	156	191.5	543.5	229.5	119	37	—	—	—	—	—	—
A 35 2	S3	ME3S	195	211	586.5	239.5	142	43.5	—	—	—	—	—	—
A 35 2	S3	ME3L	195	211	618.5	239.5	142	50	—	—	—	—	—	—
A 35 2	S4	ME4	258	242.5	726.5	—	193	89	—	—	—	—	—	—
A 35 2	S4	ME4LB	258	242.5	761.5	—	193	97	—	—	—	—	—	—
A 35 3	S05	M05S	121	174	543	—	95	33	609	34	96	122	116	95
A 35 3	S1	M1	138	182.5	572	—	108	35	633	38	103	135	124	108
A 35 3	S2	ME2S	156	191.5	601	—	119	37	—	—	—	—	—	—
A 35 3	S3	ME3S	195	211	644	—	142	43.5	—	—	—	—	—	—
A 35 3	S3	ME3L	195	211	676	—	142	50	—	—	—	—	—	—

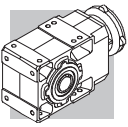


## A 35...M/ME

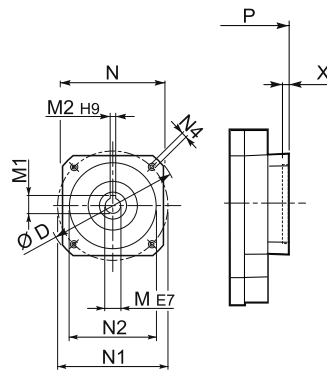
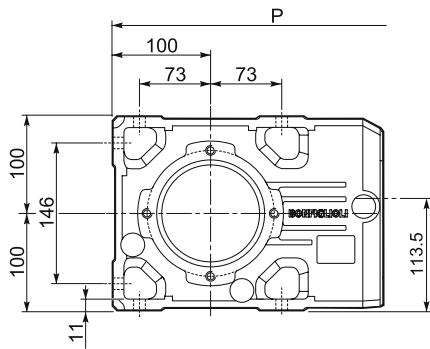


Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

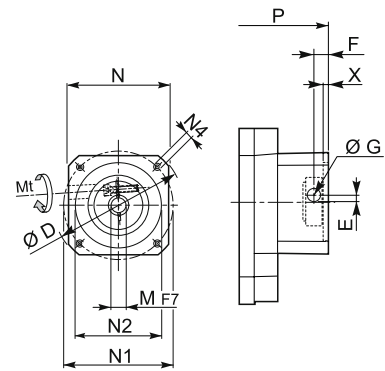
			AC	H	L	LD	AD	lbs	M...FD M...FA		M...FD		M...FA	
									LF	lbs	R	AD	R	AD
<b>A 35 2</b>	<b>S1</b>	<b>M1</b>	5.433	7.185	20.256	8.563	4.252	75	22.657	79	4.055	5.315	4.882	4.252
<b>A 35 2</b>	<b>S2</b>	<b>ME2S</b>	6.142	7.539	21.398	9.035	4.685	82	—	—	—	—	—	—
<b>A 35 2</b>	<b>S3</b>	<b>ME3S</b>	7.677	8.307	23.091	9.429	5.591	96	—	—	—	—	—	—
<b>A 35 2</b>	<b>S3</b>	<b>ME3L</b>	7.677	8.307	24.350	9.429	5.591	110	—	—	—	—	—	—
<b>A 35 2</b>	<b>S4</b>	<b>ME4</b>	10.157	9.547	28.602	—	7.598	196	—	—	—	—	—	—
<b>A 35 2</b>	<b>S4</b>	<b>ME4LB</b>	10.157	9.547	29.980	—	7.598	214	—	—	—	—	—	—
<b>A 35 3</b>	<b>S05</b>	<b>M05S</b>	4.764	6.850	21.378	—	3.740	73	23.976	75	3.780	4.803	4.567	3.740
<b>A 35 3</b>	<b>S1</b>	<b>M1</b>	5.433	7.185	22.520	—	4.252	77	24.921	84	4.055	5.315	4.882	4.252
<b>A 35 3</b>	<b>S2</b>	<b>ME2S</b>	6.142	7.539	23.661	—	4.685	82	—	—	—	—	—	—
<b>A 35 3</b>	<b>S3</b>	<b>ME3S</b>	7.677	8.307	25.354	—	5.591	96	—	—	—	—	—	—
<b>A 35 3</b>	<b>S3</b>	<b>ME3L</b>	7.677	8.307	26.614	—	5.591	110	—	—	—	—	—	—



## A 35...SK / SC



SK...

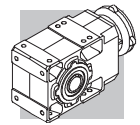


SC...

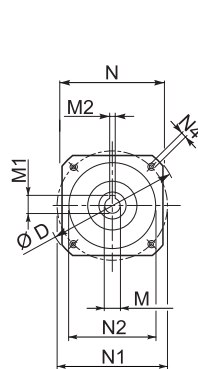
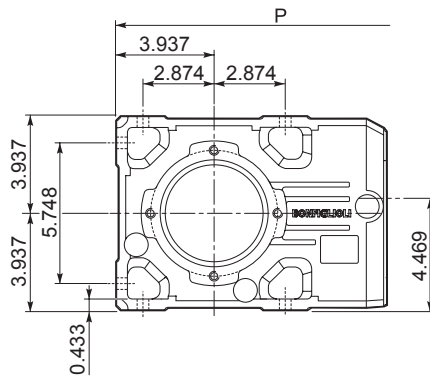
Dimensões em mm

		D	M	M1	M2	N	N1	N2	N4	X	P		Kg
											2x	3x	
A 35 2/3	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	331	388.5	27/28
A 35 2/3	SK60B	102	14	16.3	5	82	75	60	M5x10	4	338	395.5	28/29
A 35 2/3	SK80A	115	14	16.3	5	90	100	80	M6x12	4	338	395.5	28/29
A 35 2/3	SK80C	120	19	21.8	6	96	100	80	M6x12	4	379	436.5	29/30
A 35 2/3	SK95A	130	14	16.3	5	102	115	95	M8x12	4	379	436.5	29/30
A 35 2/3	SK95B	130	19	21.8	6	102	115	95	M8x12	4	379	436.5	29/30
A 35 2/3	SK95C	130	24	27.3	8	102	115	95	M8x12	4	379	436.5	29/30
A 35 2/3	SK110A	150	19	21.8	6	120	130	110	M8x12	5	379	436.5	29/30
A 35 2/3	SK110B	150	24	27.3	8	120	130	110	M8x12	5	379	436.5	29/30
A 35 2	SK130A	188	24	27.3	8	142	165	130	M10x20	5	379	—	30

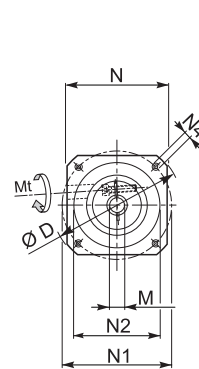
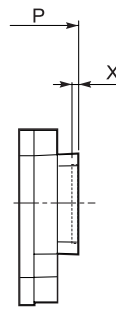
		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		Kg
													2x	3x	
A 35 2/3	SC60A	M6 15	102	7	12.5	12.5	11	82	75	60	M5x10	4	358	415.5	28/29
A 35 2/3	SC60B	M6 15	102	7	12.5	12.5	14	82	75	60	M5x10	4	358	415.5	29/30
A 35 2/3	SC80A	M6 15	115	6	12.5	12.5	14	90	100	80	M6x12	4	358	415.5	29/30
A 35 2/3	SC80C	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	402.5	460	30/31
A 35 2/3	SC95A	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	402.5	460	30/31
A 35 2/3	SC95B	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	402.5	460	30/31
A 35 2/3	SC95C	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	402.5	460	30/31
A 35 2/3	SC110A	M6 15	150	16.5	16	17.75	19	120	130	110	M8x16	5	402.5	460	32/33
A 35 2/3	SC110B	M6 15	150	16.5	16	17.75	24	120	130	110	M8x16	5	402.5	460	32/33
A 35 2	SC130A	M6 15	188	19	16	17.75	24	142	165	130	M10x20	5	402.5	—	33



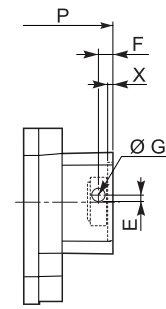
## A 35...SK / SC



**SK...**



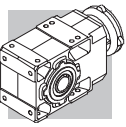
**SC...**



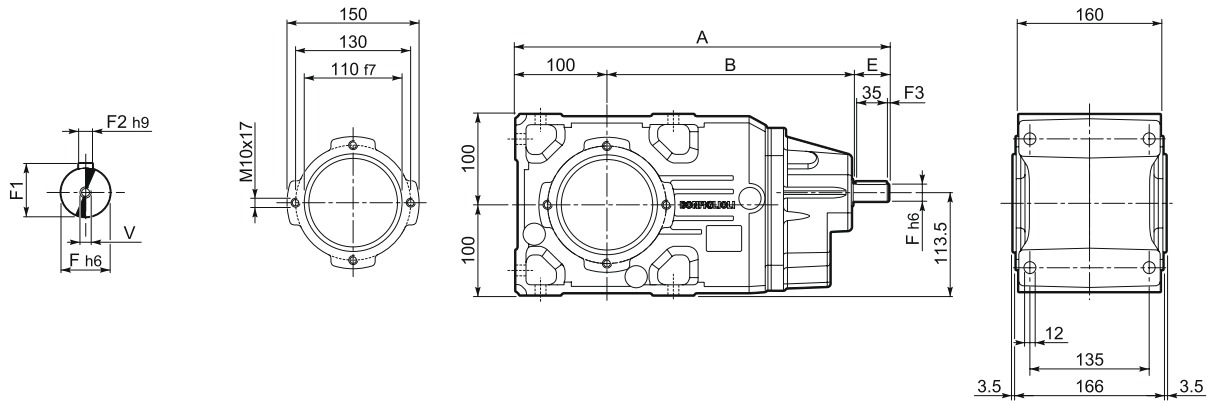
Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

Image	Image	D	M	M1	M2	N	N1	N2	N4	X	P		lbs
											2x	3x	
		4.016	0.433 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.504	0.157 <sup>+0.0012</sup> / <sub>+0</sub>	3.228	2.953	2.362	M5x10	0.138	13.031	15.295	60/62
		4.016	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	3.228	2.953	2.362	M5x10	0.157	13.307	15.571	62/64
		4.528	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	3.543	3.937	3.150	M6x12	0.157	13.307	15.571	62/64
		4.724	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	3.780	3.937	3.150	M6x12	0.157	14.921	17.185	64/66
		5.118	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	4.016	4.528	3.740	M8x12	0.157	14.921	17.185	64/66
		5.118	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	4.016	4.528	3.740	M8x12	0.157	14.921	17.185	64/66
		5.118	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	4.016	4.528	3.740	M8x12	0.157	14.921	17.185	64/66
		5.906	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	4.724	5.118	4.331	M8x12	0.197	14.921	17.185	64/66
		5.906	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	4.724	5.118	4.331	M8x12	0.197	14.921	17.185	64/66
		7.402	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	5.591	6.496	5.118	M10x20	0.197	14.921	—	66

Image	Image	Image	Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P		lbs
														2x	3x	
			M6 133	4.016	0.276	0.492	0.492	0.433 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.228	2.953	2.362	M5x10	0.157	14.094	16.358	62/64
			M6 133	4.016	0.276	0.492	0.492	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.228	2.953	2.362	M5x10	0.157	14.094	16.358	64/66
			M6 133	4.528	0.236	0.492	0.492	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.543	3.937	3.150	M6x12	0.157	14.094	16.358	64/66
			M6 133	4.724	0.610	0.571	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	3.780	3.937	3.150	M6x12	0.157	15.846	18.110	66/68
			M6 133	5.118	0.650	0.591	0.699	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	4.016	4.528	3.740	M8x16	0.157	15.846	18.110	66/68
			M6 133	5.118	0.650	0.591	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	M8x16	0.157	15.846	18.110	66/68
			M6 133	5.118	0.650	0.591	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	M8x16	0.157	15.846	18.110	66/68
			M6 133	5.906	0.650	0.630	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	M8x16	0.197	15.846	18.110	71/73
			M6 133	5.906	0.650	0.630	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	M8x16	0.197	15.846	18.110	71/73
			M6 133	7.402	0.748	0.630	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	5.591	6.496	5.118	M10x20	0.197	15.846	—	73



## A 35...HS

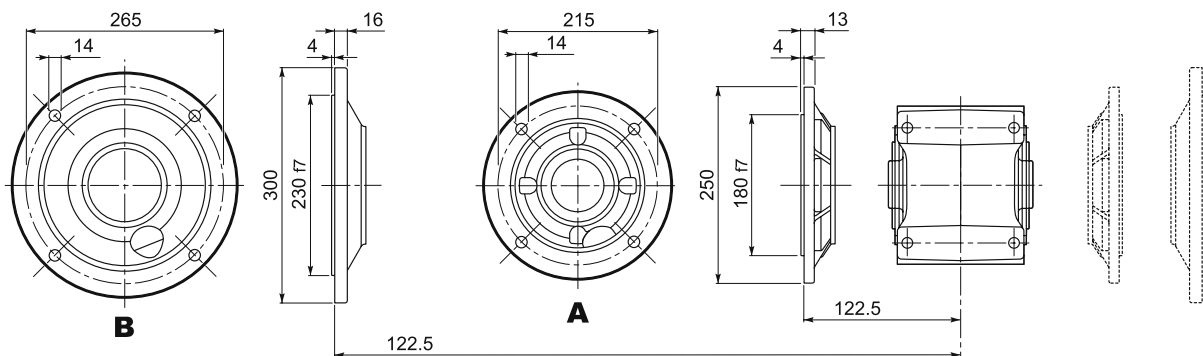


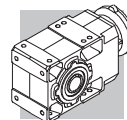
Dimensões em mm

		A	B	E	F	F1	F2	F3	F4	V	kg	
	HS	A 35 2	409.5	269.5	40	19	21.5	6	2.5	35	M6x16	29
		A 35 3	424	284	40	16	18	5	2.5	35	M6x16	29

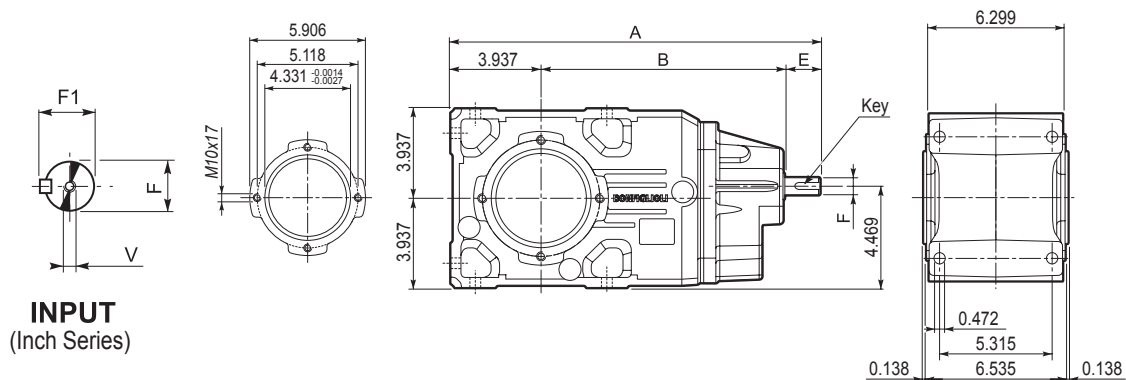
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

## A 35...F...





## A 35...NHS



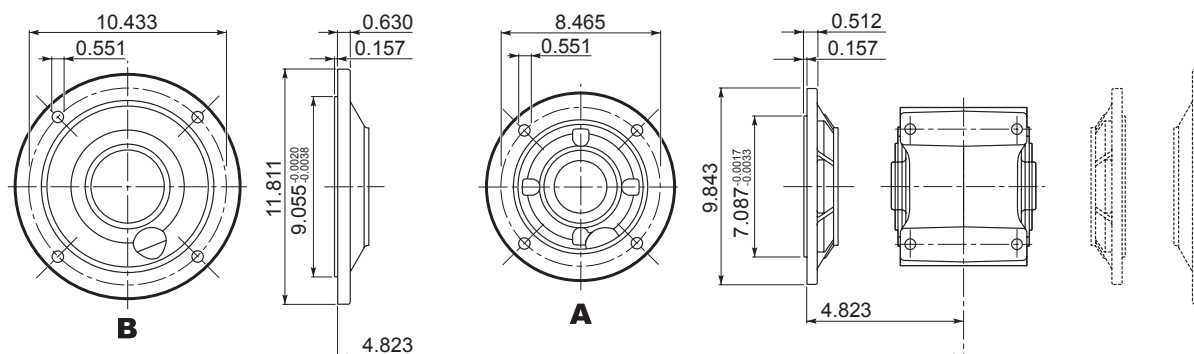
**INPUT**  
(Inch Series)

Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

		A	B	E	F	F1	V	Key	lbs
<b>A 35 2</b>	<b>NHS</b>	16.122	10.610	1.575	0.750 <sup>+0</sup> <sub>-0.0005</sub>	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	64
<b>A 35 3</b>	<b>NHS</b>	16.693	11.181	1.575	0.625 <sup>+0</sup> <sub>-0.0004</sub>	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	64

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

## A 35...F...

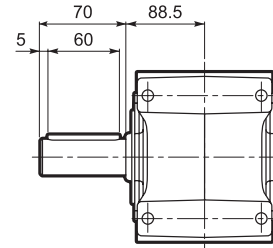
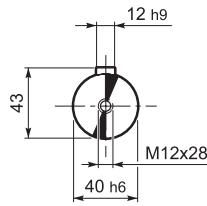




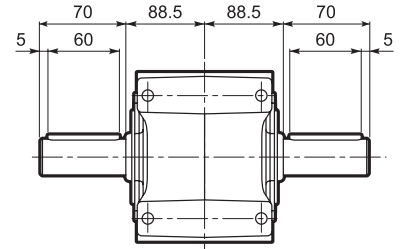
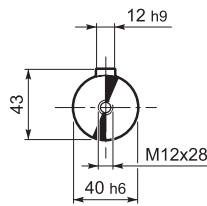


# A 35

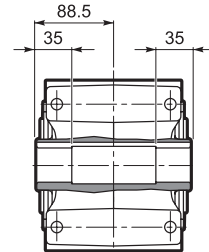
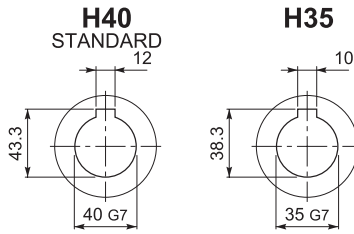
## A 35...UR



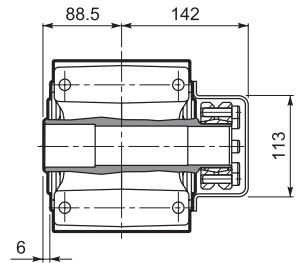
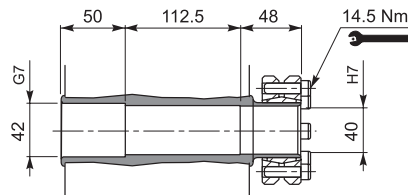
## A 35...UD



## A 35...UH



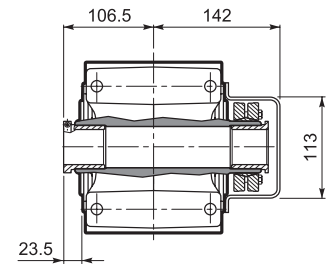
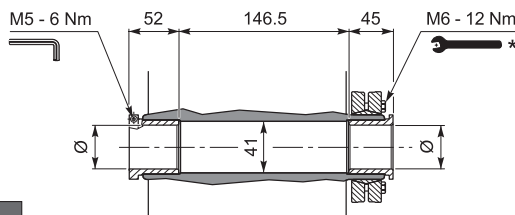
## A 35...US



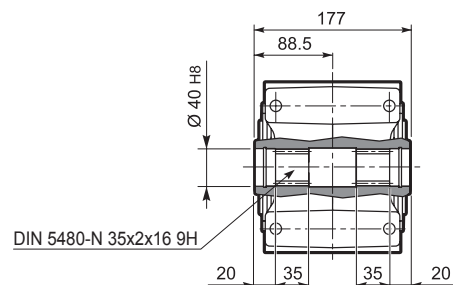
## A 35...QF

	Ø
QF35	35
QF40	40

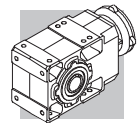
	M <sub>n2</sub> max [Nm]
A 35 QF35	550



## A 35...UV



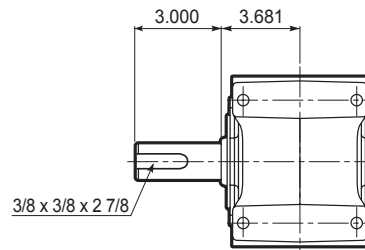
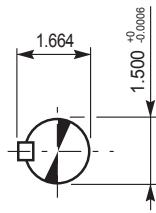
\* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.



# A 35

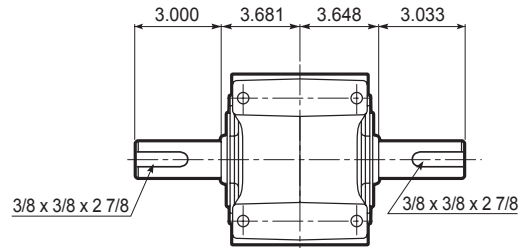
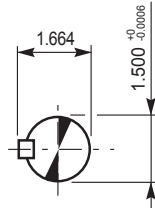
## A 35...NUR

**OUTPUT**  
(Inch Series)



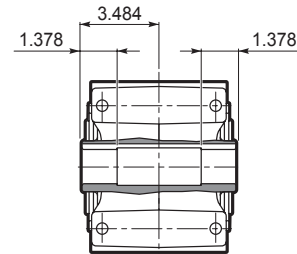
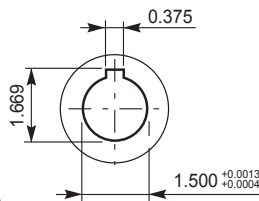
## A 35...NUD

**OUTPUT**  
(Inch Series)

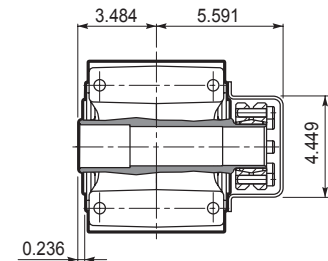
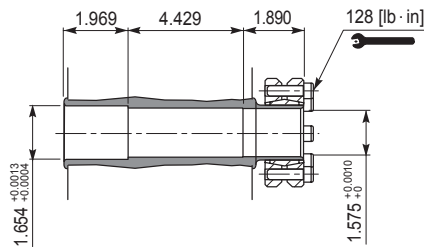


## A 35...NUH

**OUTPUT**  
(Inch Series)



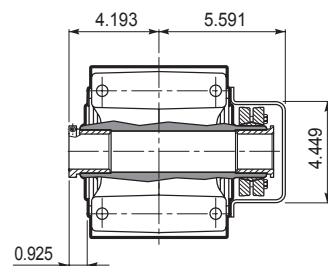
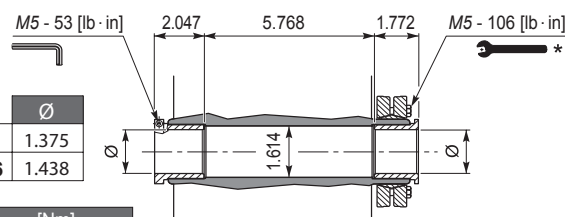
## A 35...US



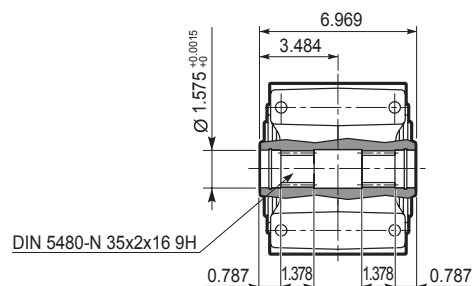
## A 35...NQF

	Ø
NQF1-3/8	1.375
NQF1-7/16	1.438

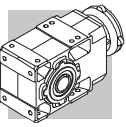
	M <sub>n2</sub> max [Nm]
A 35 NQF1-3/8	550



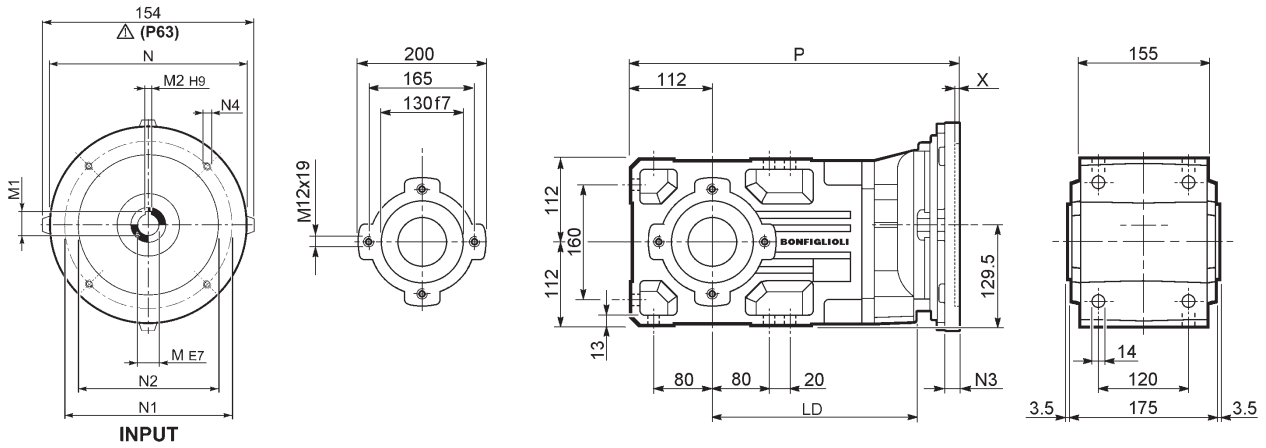
## A 35...UV






\* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.



## A 41...P(IEC)



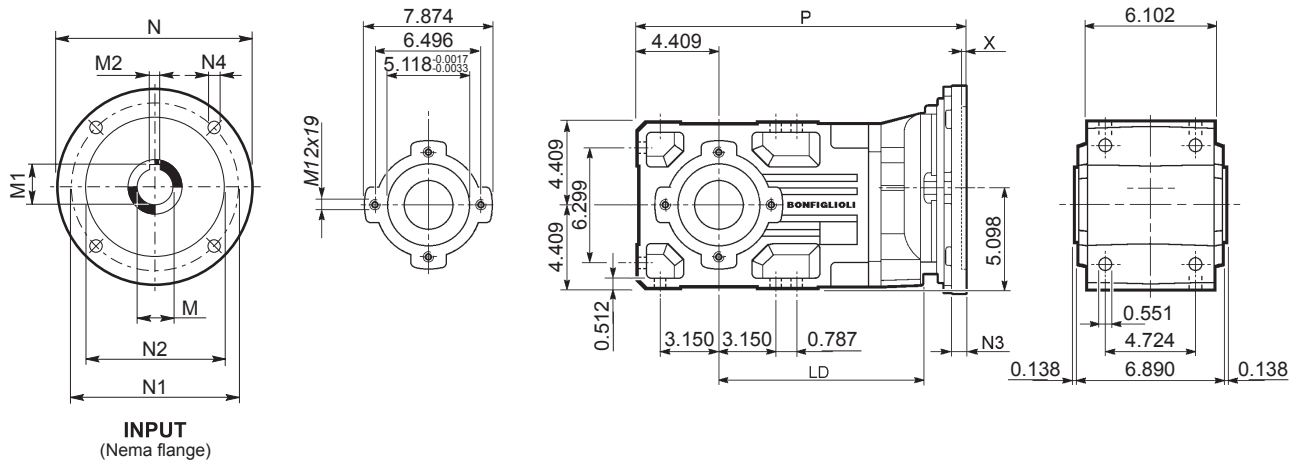
Dimensões em mm

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	
A 41 2	P63	232	11	12.8	4	140	115	95	—	M8x19	4	375	37
A 41 2	P71	232	14	16.3	5	160	130	110	—	M8x16	4.5	375	38
A 41 2	P80	248	19	21.8	6	200	165	130	—	M10x12	4	394.5	39
A 41 2	P90	248	24	27.3	8	200	165	130	—	M10x12	4	394.5	39
A 41 2	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	404.5	43
A 41 2	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	404.5	43
A 41 2	P132	—	38	41.3	10	300	265	230	16	14	5	441	46
A 41 3	P63	—	11	12.8	4	140	115	95	—	M8x19	4	436.5	39
A 41 3	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	436.5	39
A 41 3	P80	—	19	21.8	6	200	165	130	—	M10x12	4	456	40
A 41 3	P90	—	24	27.3	8	200	165	130	—	M10x12	4	456	40
A 41 3	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	466	44
A 41 3	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	466	44

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA



## A 41...N(NEMA Input)



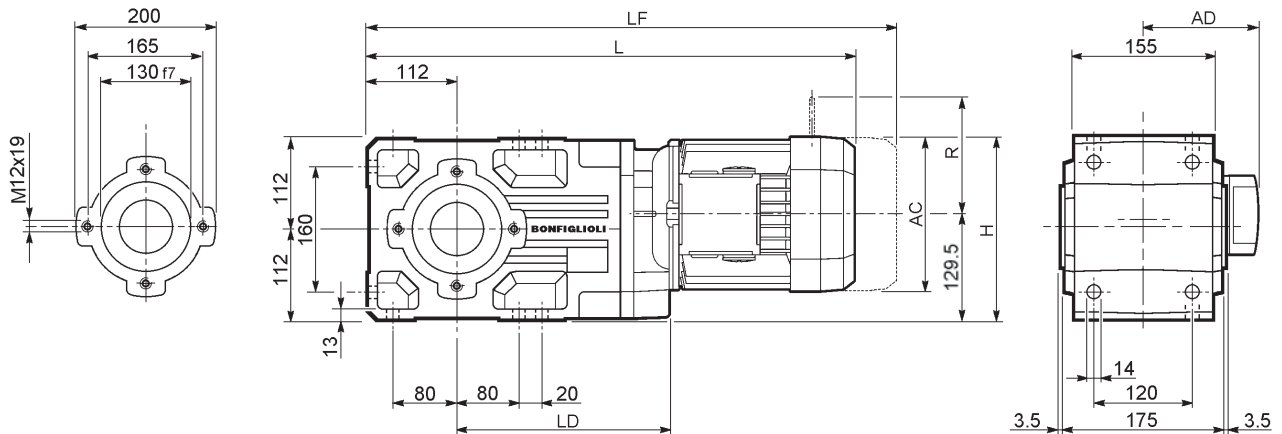
Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	
A 41 2	N56C	9.035	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0.0012</sup> / <sub>+</sub>	6.496	5.875	4.500	0.472	0.394	0.197	14.941	62
A 41 2	N140TC	9.035	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+</sub>	6.496	5.875	4.500	0.472	0.394	0.197	14.941	64
A 41 2	N180TC	9.429	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+</sub>	8.996	7.250	8.500	0.630	0.551	0.217	15.768	71
A 41 2	N210TC	—	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+0.0014</sup> / <sub>+</sub>	8.996	7.250	8.500	0.531	0.531	0.217	16.929	88
A 41 3	N56C	—	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0.0012</sup> / <sub>+</sub>	6.496	5.875	4.500	0.472	0.394	0.197	17.205	64
A 41 3	N140TC	—	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+</sub>	6.496	5.875	4.500	0.472	0.394	0.197	17.205	64
A 41 3	N180TC	—	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+</sub>	8.996	7.250	8.500	0.630	0.551	0.217	18.031	75




Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

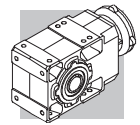


## A 41...M/ME

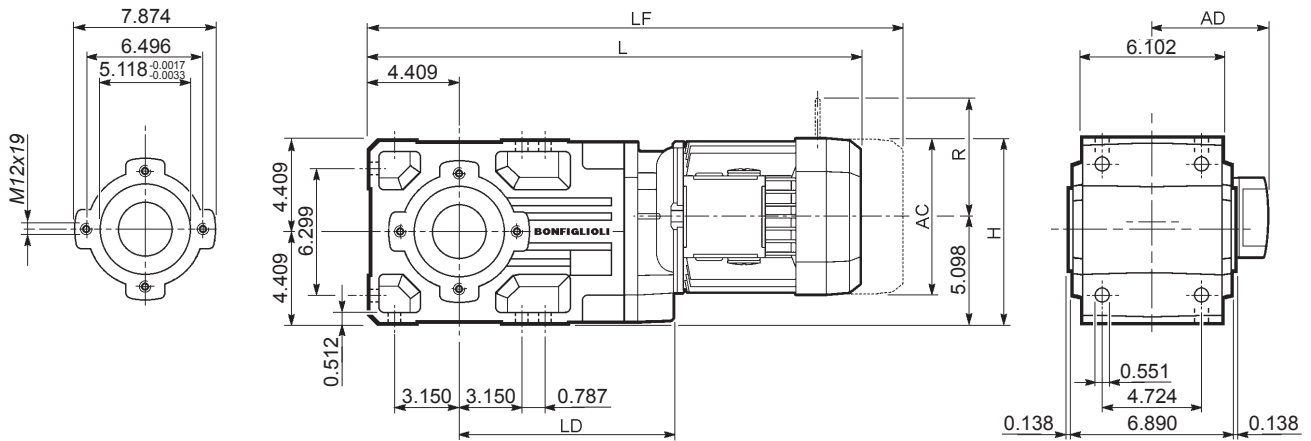


Dimensões em mm

  	AC	H	L	LD	AD	Kg	M...FD M...FA		M...FD		M...FA	
							LF	Kg	R	AD	R	AD
A 41 2 S1 M1	138	198.5	530	216.5	108	41	591	44	103	135	124	108
A 41 2 S2 ME2S	156	207.5	559	232	119	45	—	—	—	—	—	—
A 41 2 S3 ME3S	195	227	602	248	142	51.5	—	—	—	—	—	—
A 41 2 S3 ME3L	195	227	634	248	142	58	—	—	—	—	—	—
A 41 2 S4 ME4	258	258.5	742	—	193	92	—	—	—	—	—	—
A 41 2 S4 ME4LB	258	258.5	777	—	193	100	—	—	—	—	—	—
A 41 3 S05 M05	121	245	562.5	—	95	44	628.5	46	96	122	116	95
A 41 3 S1 M1	138	198.5	591.5	—	108	46	652.5	49	103	135	124	108
A 41 3 S2 ME2S	156	207.5	620.5	—	119	50	—	—	—	—	—	—
A 41 3 S3 ME3S	195	227	663.5	—	142	56.5	—	—	—	—	—	—
A 41 3 S3 ME3L	195	227	695.5	—	142	61	—	—	—	—	—	—

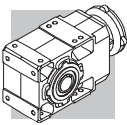


## A 41...M/ME

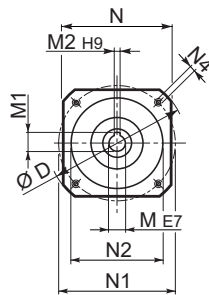
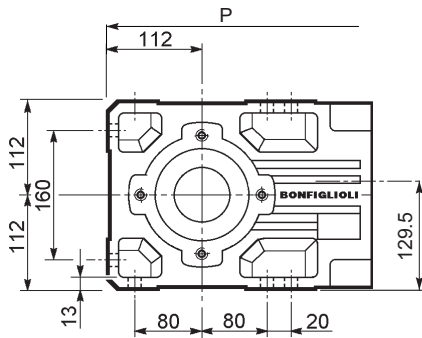


Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

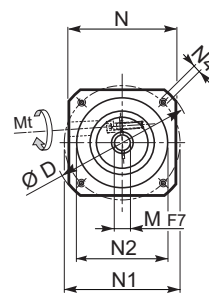
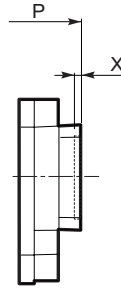
			AC	H	L	LD	AD	lbs	M...FD M...FA		M...FD		M...FA	
									LF	lbs	R	AD	R	AD
A 41 2	S1	M1	5.433	7.185	20.256	8.563	4.252	75	22.657	79	4.055	5.315	4.882	4.252
A 41 2	S2	ME2S	6.142	7.539	21.398	9.035	4.685	82	—	—	—	—	—	—
A 41 2	S3	ME3S	7.677	8.307	23.091	9.429	5.591	96	—	—	—	—	—	—
A 41 2	S3	ME3L	7.677	8.307	24.350	9.429	5.591	110	—	—	—	—	—	—
A 41 2	S4	ME4	10.157	9.547	28.602	—	7.598	196	—	—	—	—	—	—
A 41 2	S4	ME4LB	10.157	9.547	29.980	—	7.598	214	—	—	—	—	—	—
A 41 3	S05	M05	4.764	6.850	21.378	—	3.740	73	23.976	75	3.780	4.803	4.567	3.740
A 41 3	S1	M1	5.433	7.185	22.520	—	4.252	77	24.921	84	4.055	5.315	4.882	4.252
A 41 3	S2	ME2S	6.142	7.539	23.661	—	4.685	82	—	—	—	—	—	—
A 41 3	S3	ME3S	7.677	8.307	25.354	—	5.591	96	—	—	—	—	—	—
A 41 3	S3	ME3L	7.677	8.307	26.614	—	5.591	110	—	—	—	—	—	—



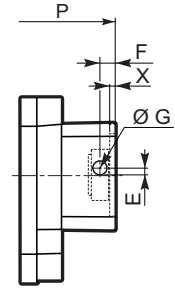
## A 41...SK / SC



SK...



SC...

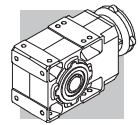


Dimensões em mm

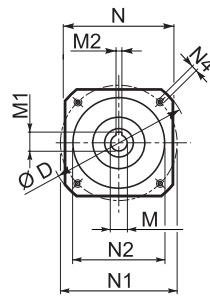
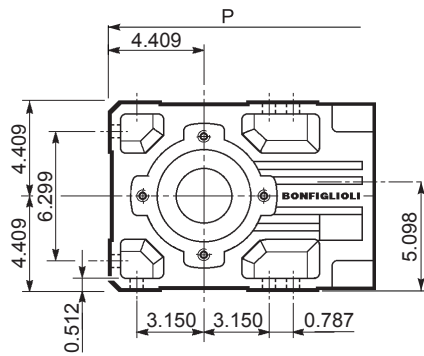
Icon	Icon	D	M	M1	M2	N	N1	N2	N4	X	P		Kg
											2x	3x	
A41 3	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	—	408	40
A41 3	SK60B	102	14	16.3	5	82	75	60	M5x10	4	—	415	40
A41 3	SK80A	115	14	16.3	5	90	100	80	M6x12	4	—	415	40
A41 2	SK80B	120	14	16.3	5	96	100	80	M6x12	4	394.5	—	39
A41 2/3	SK80C	120	19	21.8	6	96	100	80	M6x12	4	394.5	456	39/40
A41 2/3	SK95A	130	14	16.3	5	102	115	95	M8x12	4	394.5	456	39/40
A41 2/3	SK95B	130	19	21.8	6	102	115	95	M8x12	4	394.5	456	39/41
A41 2/3	SK95C	130	24	27.3	8	102	115	95	M8x12	4	394.5	456	39/44
A41 2/3	SK110A	150	19	21.8	6	120	130	110	M8x12	5	394.5	456	39/44
A41 2/3	SK110B	150	24	27.3	8	120	130	110	M8x12	5	394.5	456	39/44
A41 2	SK130A	188	24	27.3	8	142	165	130	M10x20	5	394.5	—	41
A41 2	SK130B	189	32	35.3	10	160	165	130	M10x20	5	441	—	43
A41 2	SK180A	240	32	35.3	10	192	215	180	M12x19	5	441	—	43
A41 2	SK180B	240	38	41.3	10	192	215	180	M12x19	5	441	—	43

Icon	Icon	Icon	Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		Kg
														2x	3x	
A41 3	SC60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	—	435	41
A41 3	SC60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	—	435	41
A41 3	SC80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	—	435	41
A41 2	SC80B	M6	15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	418	—	40
A41 2/3	SC80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	418	479.5	40/41
A41 2/3	SC95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	418	479.5	40/42
A41 2/3	SC95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	418	479.5	40/42
A41 2/3	SC95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	418	479.5	40/43
A41 2/3	SC110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	418	479.5	41/47
A41 2/3	SC110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	418	479.5	41/47
A41 2	SC130A	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	418	—	42
A41 2	SC130B	M8	36	189	20	17	17.75	32	160	165	130	M10x20	5	464	—	46
A41 2	SC180A	M8	36	240	20	17.5	17.75	32	192	215	180	M12x24	5	468	—	46
A41 2	SC180B	M8	36	240	20	17.5	17.75	38	192	215	180	M12x24	5	468	—	46

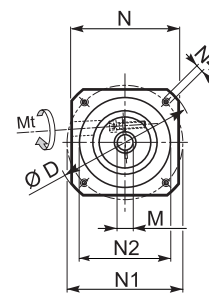
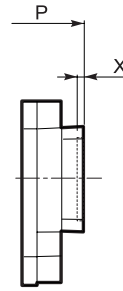




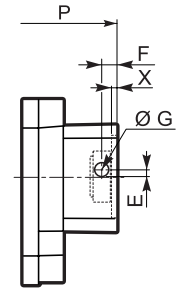
## A 41...SK / SC



SK...



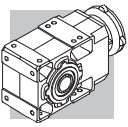
SC...



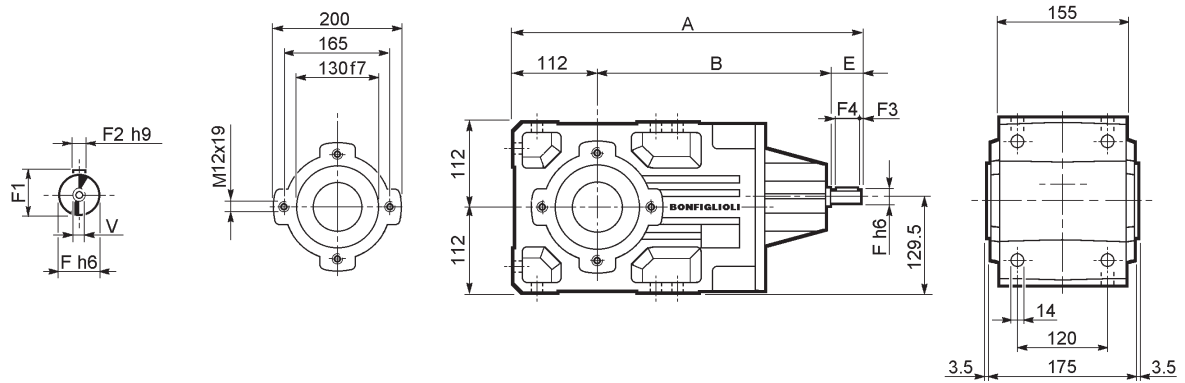
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

Icon	Part No.	D	M	M1	M2	N	N1	N2	N4	X	P		lbs
											2x	3x	
	A41 3 SK60A	4.016	0.433 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.504	0.157 <sup>+0.0012</sup> / <sub>+</sub>	3.228	2.953	2.362	M5x10	0.138	—	16.063	88
	A41 3 SK60B	4.016	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+</sub>	3.228	2.953	2.362	M5x10	0.157	—	16.339	88
	A41 3 SK80A	4.528	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+</sub>	3.543	3.937	3.150	M6x12	0.157	—	16.339	88
	A41 2 SK80B	4.724	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+</sub>	3.780	3.937	3.150	M6x12	0.157	15.531	—	86
	A41 2/3 SK80C	4.724	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+</sub>	3.780	3.937	3.150	M6x12	0.157	15.531	17.953	86/88
	A41 2/3 SK95A	5.118	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+</sub>	4.016	4.528	3.740	M8x12	0.157	15.531	17.953	86/88
	A41 2/3 SK95B	5.118	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+</sub>	4.016	4.528	3.740	M8x12	0.157	15.531	17.953	86/90
	A41 2/3 SK95C	5.118	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+</sub>	4.016	4.528	3.740	M8x12	0.157	15.531	17.953	86/97
	A41 2/3 SK110A	5.906	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+</sub>	4.724	5.118	4.331	M8x12	0.197	15.531	17.953	86/97
	A41 2/3 SK110B	5.906	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+</sub>	4.724	5.118	4.331	M8x12	0.197	15.531	17.953	86/97
	A41 2 SK130A	7.402	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+</sub>	5.591	6.496	5.118	M10x20	0.197	15.531	—	90
	A41 2 SK130B	7.441	1.260 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.390	0.394 <sup>+0.0014</sup> / <sub>+</sub>	6.299	6.496	5.118	M10x20	0.197	17.362	—	95
	A41 2 SK180A	9.449	1.260 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.390	0.394 <sup>+0.0014</sup> / <sub>+</sub>	7.559	8.465	7.087	M12x19	0.197	17.362	—	95
	A41 2 SK180B	9.449	1.496 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.626	0.394 <sup>+0.0014</sup> / <sub>+</sub>	7.559	8.465	7.087	M12x19	0.197	17.362	—	95

Icon	Part No.	Mt [lb-in]	D	E	F	G	M	N	N1	N2	N4	X	P		lbs
													2x	3x	
	A41 3 SC60A	M6 133	4.016	0.276	0.492	0.492	0.433 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.228	2.953	2.362	M5x10	0.157	—	17.126	90
	A41 3 SC60B	M6 133	4.016	0.276	0.492	0.492	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.228	2.953	2.362	M5x10	0.157	—	17.126	90
	A41 3 SC80A	M6 133	4.528	0.236	0.492	0.492	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.543	3.937	3.150	M6x12	0.157	—	17.126	90
	A41 2 SC80B	M6 133	4.724	0.610	0.571	0.699	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.780	3.937	3.150	M6x12	0.157	16.457	—	88
	A41 2/3 SC80C	M6 133	4.724	0.610	0.571	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	3.780	3.937	3.150	M6x12	0.157	16.457	18.878	88/90
	A41 2/3 SC95A	M6 133	5.118	0.650	0.591	0.699	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	4.016	4.528	3.740	M8x16	0.157	16.457	18.878	88/93
	A41 2/3 SC95B	M6 133	5.118	0.650	0.591	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	M8x16	0.157	16.457	18.878	88/93
	A41 2/3 SC95C	M6 133	5.118	0.650	0.591	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	M8x16	0.157	16.457	18.878	88/95
	A41 2/3 SC110A	M6 133	5.906	0.650	0.630	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	M8x16	0.197	16.457	18.878	90/104
	A41 2/3 SC110B	M6 133	5.906	0.650	0.630	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	M8x16	0.197	16.457	18.878	90/104
	A41 2 SC130A	M6 133	7.402	0.748	0.630	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	5.591	6.496	5.118	M10x20	0.197	16.457	—	93
	A41 2 SC130B	M8 319	7.441	0.787	0.669	0.699	1.260 <sup>+0.0020</sup> / <sub>+0.0010</sub>	6.299	6.496	5.118	M10x20	0.197	18.268	—	101
	A41 2 SC180A	M8 319	9.449	0.787	0.689	0.699	1.260 <sup>+0.0020</sup> / <sub>+0.0010</sub>	7.559	8.465	7.087	M12x24	0.197	18.425	—	101
	A41 2 SC180B	M8 319	9.449	0.787	0.689	0.699	1.496 <sup>+0.0020</sup> / <sub>+0.0010</sub>	7.559	8.465	7.087	M12x24	0.197	18.425	—	101



## A 41...HS

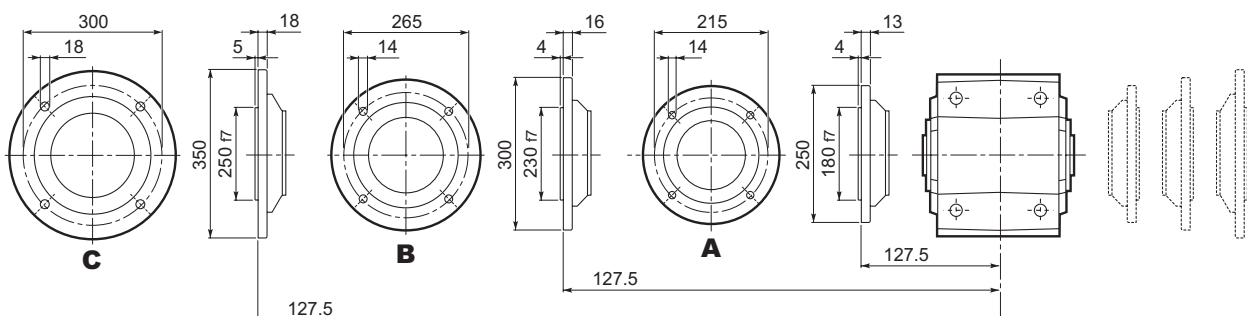


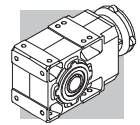
Dimensões em mm

		A	B	E	F	F1	F2	F3	F4	V	Kg
		464	302.5	50	24	27	8	2.5	45	M8x19	40.7
<b>A 41 2</b>	<b>HS</b>	486.5	334.5	40	19	21.5	6	2.5	35	M6x16	39.5
<b>A 41 3</b>											

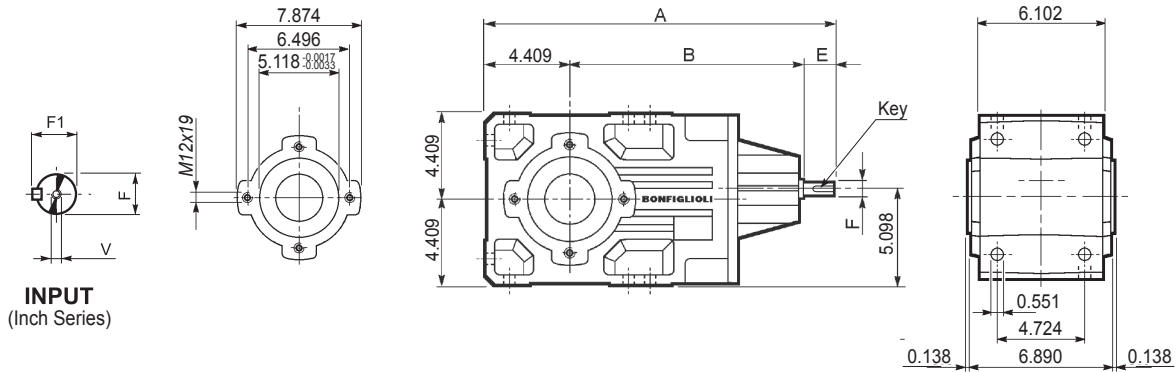
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

## A 41...F...





## A 41...NHS



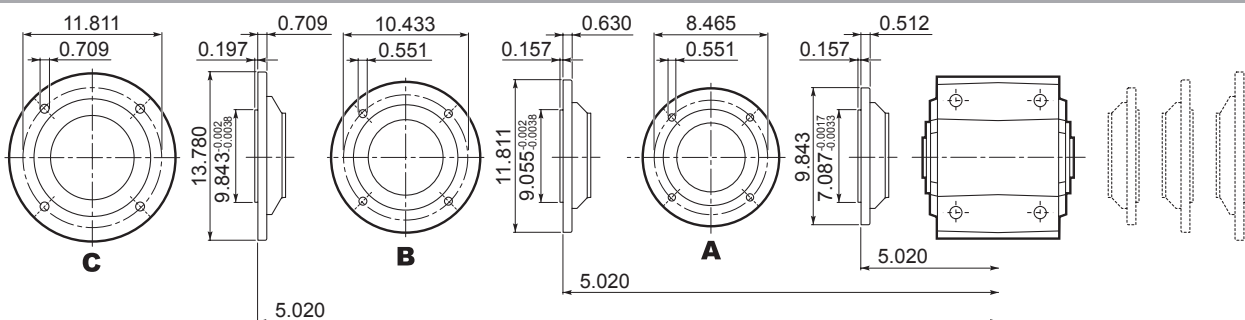
**INPUT**  
(Inch Series)

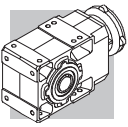
Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

		A	B	E	F	F1	V	Key	lbs
<b>A 41 2</b>	<b>NHS</b>	18.268	11.890	1.969	1.000 <sup>+0</sup> <sub>-0.0005</sub>	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	90
<b>A 41 3</b>	<b>NHS</b>	19.154	13.169	1.575	0.750 <sup>+0</sup> <sub>-0.0005</sub>	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	87

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

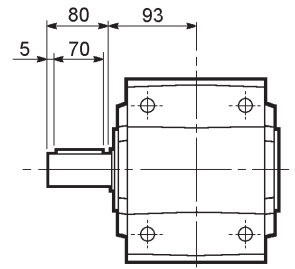
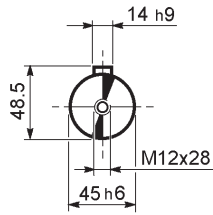
## A 41...F...



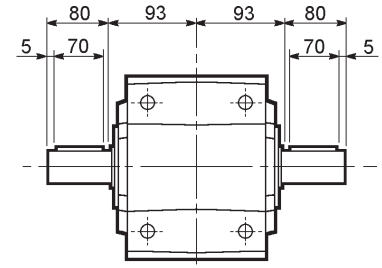
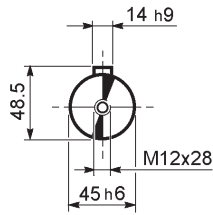


# A 41

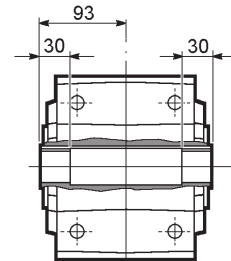
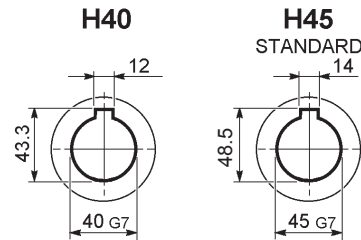
## A 41...UR



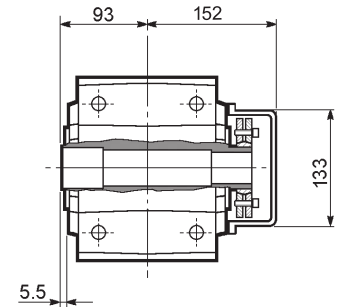
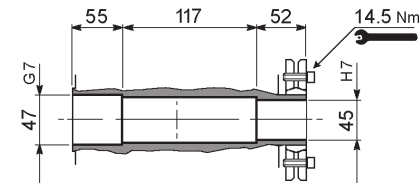
## A 41...UD



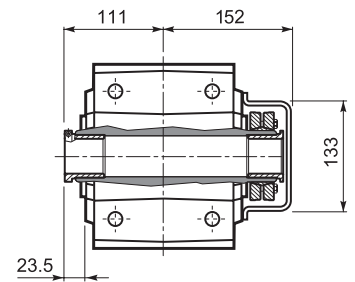
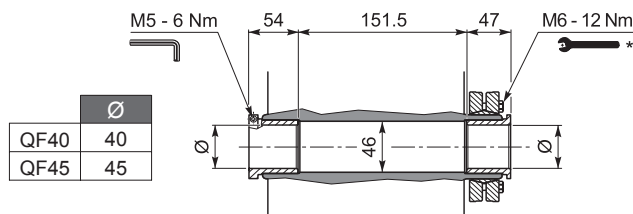
## A 41...UH



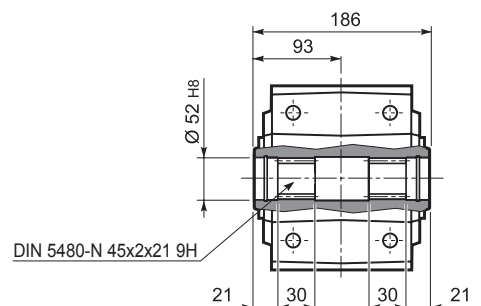
## A 41...US



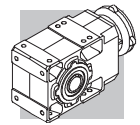
## A 41...QF



## A 41...UV



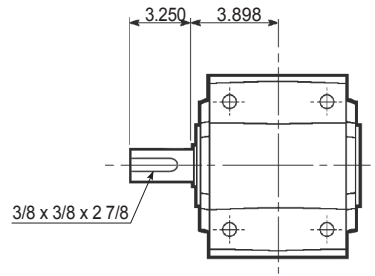
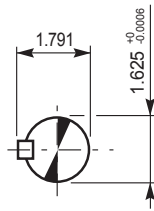
\* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.



# A 41

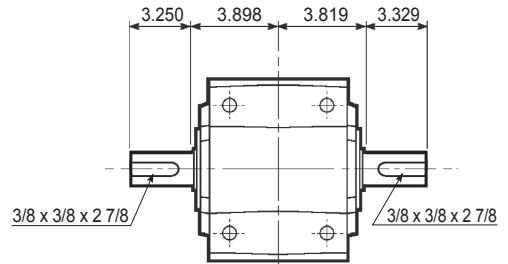
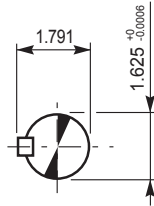
## A 41...NUR

OUTPUT  
(Inch Series)



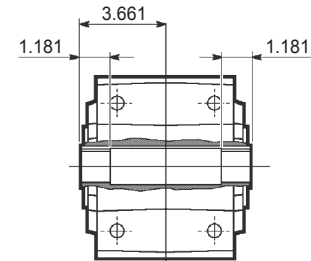
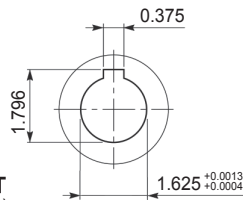
## A 41...NUD

OUTPUT  
(Inch Series)

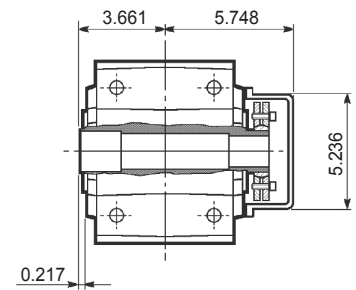
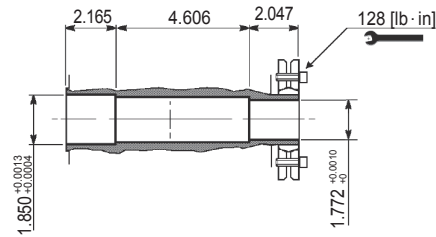


## A 41...NUH

OUTPUT  
(Inch Series)

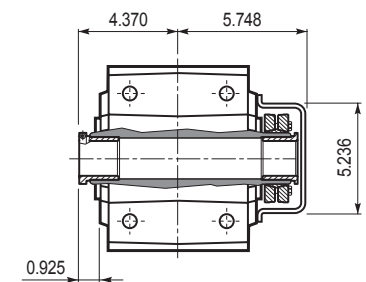
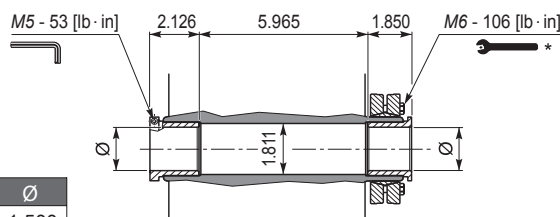


## A 41...US

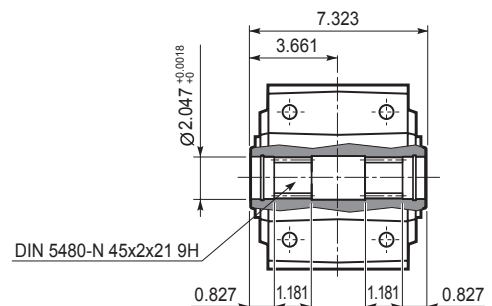


## A 41...NQF

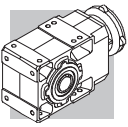
	Ø
NQF1-1/2	1.500
NQF1-5/8	1.625



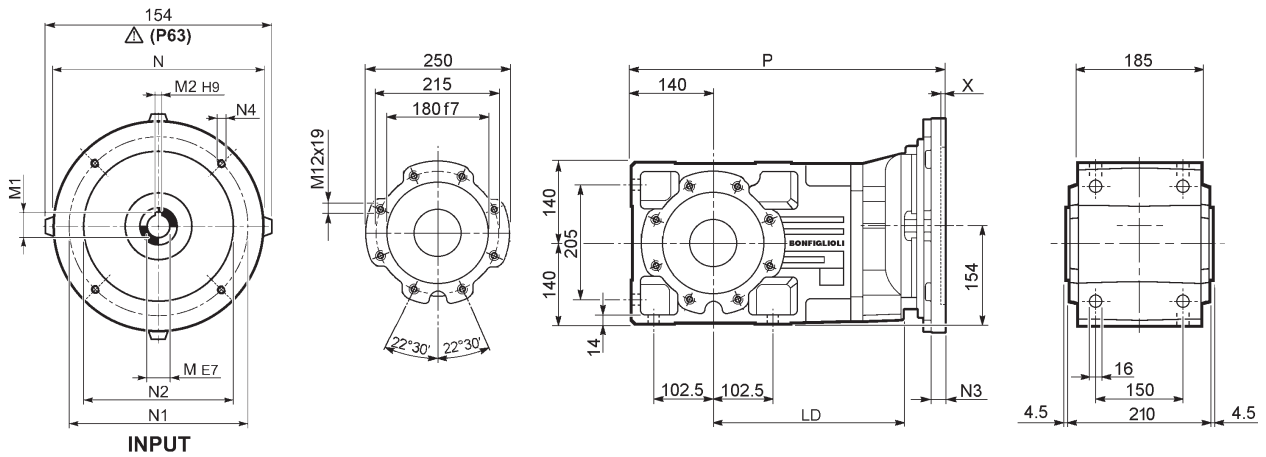
## A 41...UV



\* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.



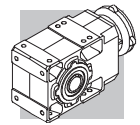
## A 50...P(IEC)



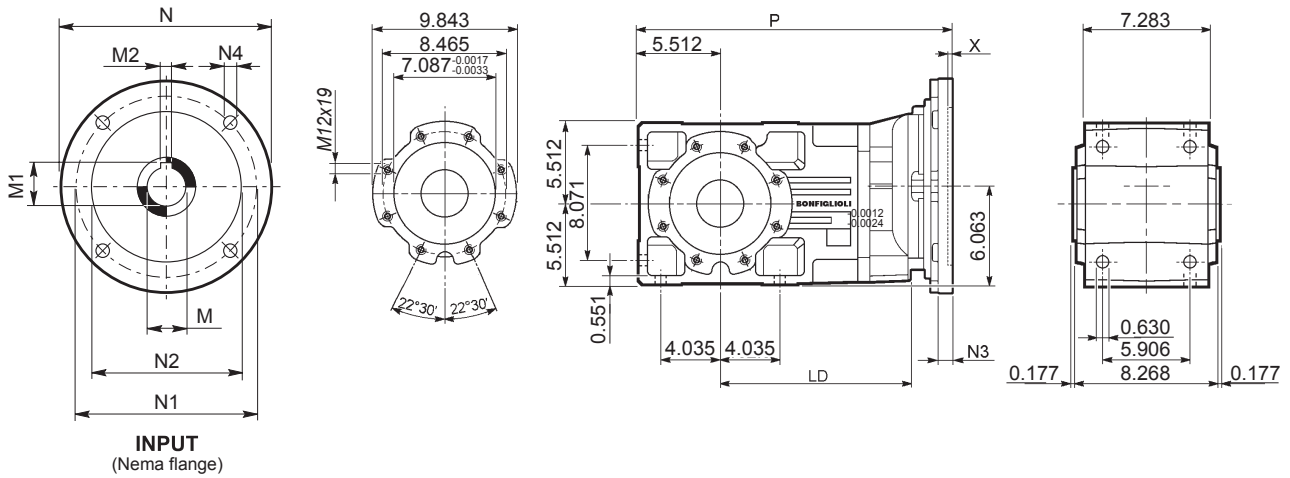
Dimensões em mm

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	
A 50 2/3	P63	284.5	11	12.8	4	140	115	95	—	M8x19	4	454.5	60
A 50 2/3	P71	284.5	14	16.3	5	160	130	110	—	M8x16	4.5	454.5	60
A 50 2/3	P80	299.5	19	21.8	6	200	165	130	—	M10x12	4	474	61
A 50 2/3	P90	299.5	24	27.3	8	200	165	130	—	M10x12	4	474	61
A 50 2/3	P100	284.5	28	31.3	8	250	215	180	—	M12x16	4.5	484	65
A 50 2/3	P112	284.5	28	31.3	8	250	215	180	—	M12x16	4.5	484	65
A 50 2/3	P132	284.5	38	41.3	10	300	265	230	16	14	5	520.5	68
A 50 2/3	P160	—	42	45.3	12	350	300	250	23	18	5.5	571	72
A 50 2/3	P180	—	48	51.8	14	350	300	250	23	18	5.5	571	72
A 50 4	P63	—	11	12.8	4	140	115	95	—	M8x19	4	526	62
A 50 4	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	526	62
A 50 4	P80	—	19	21.8	6	200	165	130	—	M10x12	4	545.5	63
A 50 4	P90	—	24	27.3	8	200	165	130	—	M10x12	4	545.5	63
A 50 4	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	555.5	67
A 50 4	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	555.5	67

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA



## A 50...N(NEMA Input)



Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

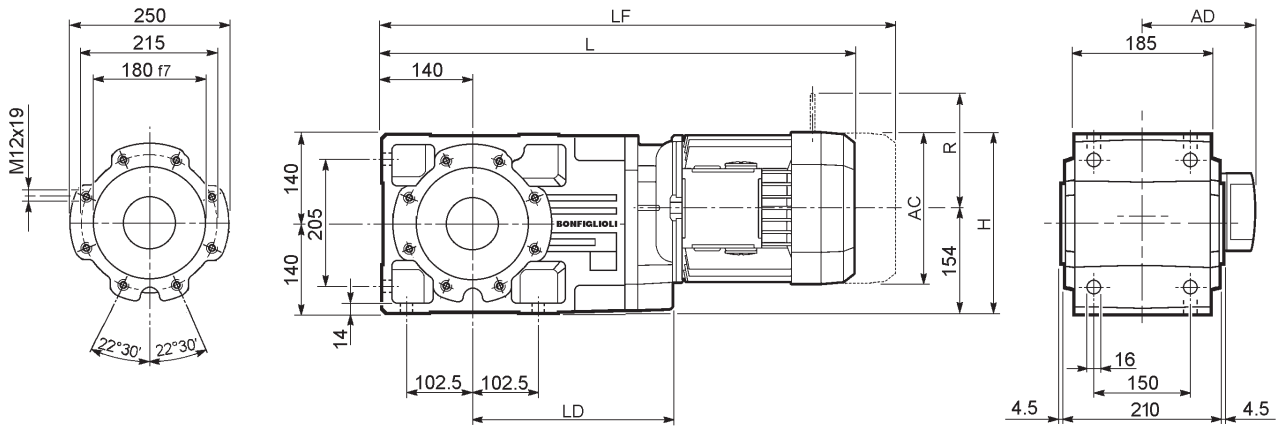
		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	
A 50 2/3	N56C	11.201	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0.0012</sup> / <sub>+</sub>	6.496	5.875	4.500	0.472	0.394	0.197	18.681	132
A 50 2/3	N140TC	11.201	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+</sub>	6.496	5.875	4.500	0.472	0.394	0.197	18.681	134
A 50 2/3	N180TC	11.791	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+</sub>	8.996	7.250	8.500	0.630	0.551	0.217	19.429	143
A 50 2/3	N210TC	11.201	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+0.0014</sup> / <sub>+</sub>	8.996	7.250	8.500	0.531	0.531	0.217	20.669	150
A 50 2/3	N250TC	—	1.625 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.796	0.375 <sup>+0.0014</sup> / <sub>+</sub>	13.780	7.250	8.500	—	0.551	0.217	23.465	188
A 50 2/3	N280TC	—	1.875 <sup>+0.0030</sup> / <sub>+0.0020</sub>	2.102	0.500 <sup>+0.0017</sup> / <sub>+</sub>	13.740	10.500	9.000	—	0.551	0.217	23.661	192
A 50 4	N56C	—	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0.0012</sup> / <sub>+</sub>	6.496	5.875	4.500	0.472	0.394	0.197	21.496	137
A 50 4	N140TC	—	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+</sub>	6.496	5.875	4.500	0.472	0.394	0.197	21.496	139
A 50 4	N180TC	—	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+</sub>	8.996	7.250	8.500	0.630	0.551	0.217	22.323	148

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC



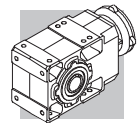


## A 50...M/ME

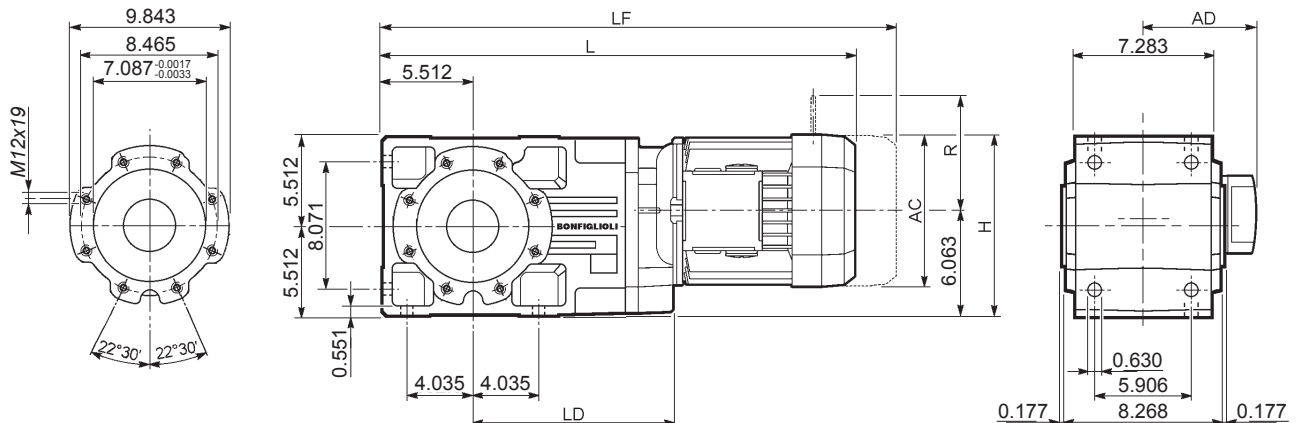


Dimensões em mm

										M...FD M...FA		M...FD		M...FA			
			AC	H	L	LD	AD		LF		R	AD	R	AD			
			A 50 2/3	S1	M1	138	223	609.5	—	108	66	670.5	69	103	135	124	108
			A 50 2/3	S2	ME2S	156	232	638.5	284.5	119	68	—	—	—	—	—	—
			A 50 2/3	S3	ME3S	195	251.5	681.5	299.5	142	74.5	—	—	—	—	—	—
			A 50 2/3	S3	ME3L	195	251.5	713.5	299.5	142	81	—	—	—	—	—	—
			A 50 2/3	S4	ME4	258	283	821.5	284.5	193	115	—	—	—	—	—	—
			A 50 2/3	S4	ME4LB	258	283	856.5	284.5	193	123	—	—	—	—	—	—
			A 50 2/3	S5	ME5S	310	309	908	—	245	143	—	—	—	—	—	—
			A 50 2/3	S5	ME5L	310	309	952	—	245	159	—	—	—	—	—	—
			A 50 4	S1	M1	138	223	681	—	108	67	742	70	103	135	124	108
			A 50 4	S2	ME2S	156	232	710	—	119	71	—	—	—	—	—	—
			A 50 4	S3	ME3S	195	251.5	753	—	142	77.5	—	—	—	—	—	—
			A 50 4	S3	ME3L	195	251.5	785	—	142	83	—	—	—	—	—	—

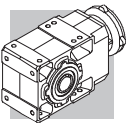


## A 50...M/ME

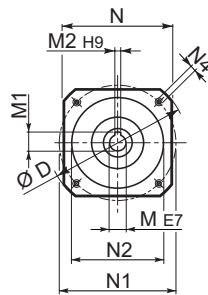
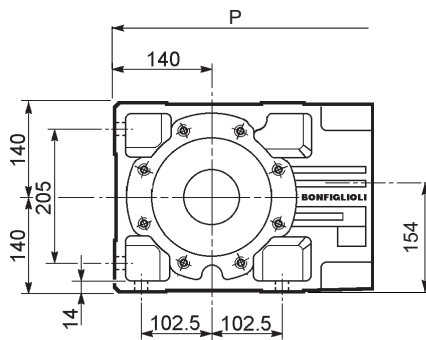


Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

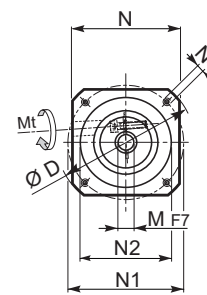
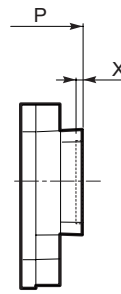
			AC	H	L	LD	AD	lbs	M...FD M...FA		M...FD		M...FA				
									LF	lbs	R	AD	R	AD			
			<b>A 50 2/3</b>	<b>S1</b>	<b>M1</b>	5.433	8.780	23.996	—	4.252	146	26.398	152	4.055	5.315	4.882	4.252
<b>A 50 2/3</b>	<b>S2</b>	<b>ME2S</b>	6.142	9.134	25.138	11.201	4.685	150	—	—	—	—	—	—	—	—	—
<b>A 50 2/3</b>	<b>S3</b>	<b>ME3S</b>	7.677	9.902	26.831	11.791	5.591	164	—	—	—	—	—	—	—	—	—
<b>A 50 2/3</b>	<b>S3</b>	<b>ME3L</b>	7.677	9.902	28.091	11.791	5.591	179	—	—	—	—	—	—	—	—	—
<b>A 50 2/3</b>	<b>S4</b>	<b>ME4</b>	10.157	11.142	32.343	11.201	7.598	254	—	—	—	—	—	—	—	—	—
<b>A 50 2/3</b>	<b>S4</b>	<b>ME4LB</b>	10.157	11.142	33.720	11.201	7.598	271	—	—	—	—	—	—	—	—	—
<b>A 50 2/3</b>	<b>S5</b>	<b>ME5S</b>	12.205	12.165	35.748	—	9.646	315	—	—	—	—	—	—	—	—	—
<b>A 50 2/3</b>	<b>S5</b>	<b>ME5L</b>	12.205	12.165	37.480	—	9.646	351	—	—	—	—	—	—	—	—	—
<b>A 50 4</b>	<b>S1</b>	<b>M1</b>	5.433	8.780	26.811	—	4.252	148	29.213	154	4.055	5.315	4.882	4.252	—	—	—
<b>A 50 4</b>	<b>S2</b>	<b>ME2S</b>	6.142	9.134	27.953	—	4.685	157	—	—	—	—	—	—	—	—	—
<b>A 50 4</b>	<b>S3</b>	<b>ME3S</b>	7.677	9.902	29.646	—	5.591	171	—	—	—	—	—	—	—	—	—
<b>A 50 4</b>	<b>S3</b>	<b>ME3L</b>	7.677	9.902	30.906	—	5.591	183	—	—	—	—	—	—	—	—	—



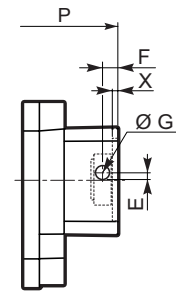
## A 50...SK / SC



SK...



SC...



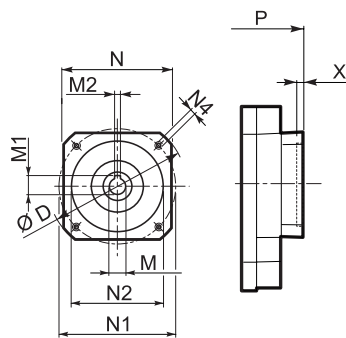
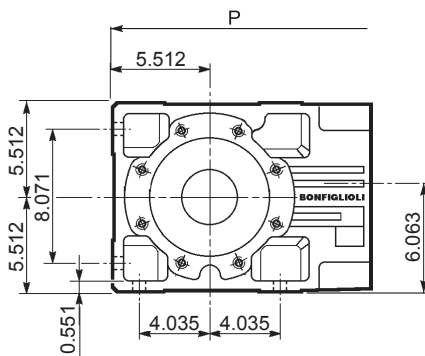
Dimensões em mm

		D	M	M1	M2	N	N1	N2	N4	X	P		Kg
											2/3x	4x	
		120	14	16.3	5	96	100	80	M6x12	4	474	—	61/61
<b>A 50 2/3/4</b>	<b>SK80C</b>	120	19	21.8	6	96	100	80	M6x12	4	474	545.5	61/61/63
<b>A 50 2/3/4</b>	<b>SK95A</b>	130	14	16.3	5	102	115	95	M8x12	4	474	545.5	61/61/63
<b>A 50 2/3/4</b>	<b>SK95B</b>	130	19	21.8	6	102	115	95	M8x12	4	474	545.5	61/61/63
<b>A 50 2/3/4</b>	<b>SK95C</b>	130	24	27.3	8	102	115	95	M8x12	4	474	545.5	61/61/63
<b>A 50 2/3/4</b>	<b>SK110A</b>	150	19	21.8	6	120	130	110	M8x12	5	474	545.5	61/61/65
<b>A 50 2/3/4</b>	<b>SK110B</b>	150	24	27.3	8	120	130	110	M8x12	5	474	575	61/61/65
<b>A 50 2/3/4</b>	<b>SK130A</b>	188	24	27.3	8	142	165	130	M10x20	5	474	575	63/63/66
<b>A 50 2/3</b>	<b>SK130B</b>	189	32	35.3	10	160	165	130	M10x20	5	520.5	—	69/69
<b>A 50 2/3</b>	<b>SK180A</b>	240	32	35.3	10	192	215	180	M12x19	5	520.5	—	69/69
<b>A 50 2/3</b>	<b>SK180B</b>	240	38	41.3	10	192	215	180	M12x19	5	520.5	—	69/69

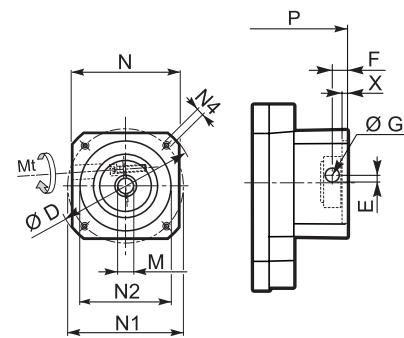
		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		Kg
													2/3x	3x	
<b>A 50 2/3</b>	<b>SC80B</b>	M6 15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	497.5	—	62/62
<b>A 50 2/3/4</b>	<b>SC80C</b>	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	497.5	569	62/62/64
<b>A 50 2/3/4</b>	<b>SC95A</b>	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	497.5	569	62/62/64
<b>A 50 2/3/4</b>	<b>SC95B</b>	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	497.5	569	62/62/64
<b>A 50 2/3/4</b>	<b>SC95C</b>	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	497.5	569	62/62/64
<b>A 50 2/3/4</b>	<b>SC110A</b>	M6 15	150	16.5	16	17.75	19	120	130	110	M8x16	5	497.5	569	63/63/66
<b>A 50 2/3/4</b>	<b>SC110B</b>	M6 15	150	16.5	16	17.75	24	120	130	110	M8x16	5	497.5	569	63/63/66
<b>A 50 2/3/4</b>	<b>SC130A</b>	M6 15	188	19	16	17.75	24	142	165	130	M10x20	5	497.5	569	64/64/67
<b>A 50 2/3</b>	<b>SC130B</b>	M8 36	189	20	17	17.75	32	160	165	130	M10x20	5	543.5	—	68/68
<b>A 50 2/3</b>	<b>SC180A</b>	M8 36	240	20	17.5	17.75	32	192	215	180	M12x24	5	547.5	—	68/68
<b>A 50 2/3</b>	<b>SC180B</b>	M8 36	240	20	17.5	17.75	38	192	215	180	M12x24	5	547.5	—	68/68



## A 50...SK / SC



**SK...**

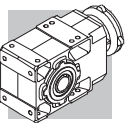


**SC...**

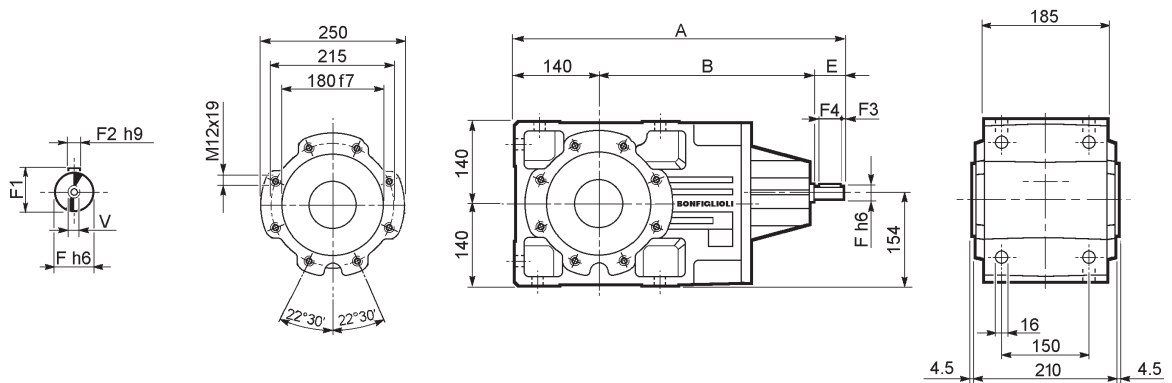
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

Image	Image	D	M	M1	M2	N	N1	N2	N4	X	P		lbs
											2/3x	4x	
		4.724	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	18.661	—	134/134
		4.724	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	18.661	21.476	134/134/139
		5.118	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	18.661	21.476	134/134/139
		5.118	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	18.661	21.476	134/134/139
		5.118	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	18.661	21.476	134/134/139
		5.906	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	4.724	5.118	4.331	<i>M8x12</i>	0.197	18.661	21.476	134/134/143
		5.906	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	4.724	5.118	4.331	<i>M8x12</i>	0.197	18.661	22.638	134/134/143
		7.402	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	5.591	6.496	5.118	<i>M10x20</i>	0.197	18.661	22.638	139/139/146
		7.441	1.260 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.390	0.394 <sup>+0.0014</sup> / <sub>+0</sub>	6.299	6.496	5.118	<i>M10x20</i>	0.197	20.492	—	152/152
		9.449	1.260 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.390	0.394 <sup>+0.0014</sup> / <sub>+0</sub>	7.559	8.465	7.087	<i>M12x19</i>	0.197	20.492	—	152/152
		9.449	1.496 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.626	0.394 <sup>+0.0014</sup> / <sub>+0</sub>	7.559	8.465	7.087	<i>M12x19</i>	0.197	20.492	—	152/152

Image	Image	Image	Mt [lb-in]	D	E	F	G	M	N	N1	N2	N4	X	P		lbs
														2/3x	3x	
			M6 133	4.724	0.610	0.571	0.699	0.551 <sup>+0.0013</sup> / <sub>+0.0008</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	19.587	—	137/137
			M6 133	4.724	0.610	0.571	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	19.587	22.402	137/137/141
			M6 133	5.118	0.650	0.591	0.699	0.551 <sup>+0.0013</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	19.587	22.402	137/137/141
			M6 133	5.118	0.650	0.591	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	19.587	22.402	137/137/141
			M6 133	5.118	0.650	0.591	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	19.587	22.402	137/137/141
			M6 133	5.906	0.650	0.630	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	<i>M8x16</i>	0.197	19.587	22.402	139/139/146
			M6 133	5.906	0.650	0.630	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	<i>M8x16</i>	0.197	19.587	22.402	139/139/146
			M6 133	7.402	0.748	0.630	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	5.591	6.496	5.118	<i>M10x20</i>	0.197	19.587	22.402	141/141/148
			M8 319	7.441	0.787	0.669	0.699	1.260 <sup>+0.0020</sup> / <sub>+0.0010</sub>	6.299	6.496	5.118	<i>M10x20</i>	0.197	21.398	—	150/150
			M8 319	9.449	0.787	0.689	0.699	1.260 <sup>+0.0020</sup> / <sub>+0.0010</sub>	7.559	8.465	7.087	<i>M12x24</i>	0.197	21.555	—	150/150
			M8 319	9.449	0.787	0.689	0.699	1.496 <sup>+0.0020</sup> / <sub>+0.0010</sub>	7.559	8.465	7.087	<i>M12x24</i>	0.197	21.555	—	150/150



## A 50...HS

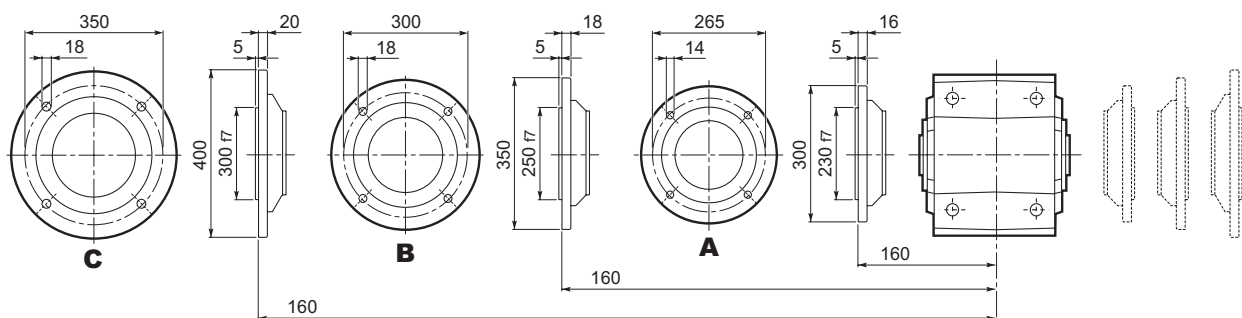


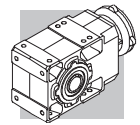
Dimensões em mm

		A	B	E	F	F1	F2	F3	F4	V	Kg	
		<b>A 50 2</b>	543.5	353.5	50	24	27	8	2.5	45	M8x19	72
		<b>A 50 3</b>	543.5	353.5	50	24	27	8	2.5	45	M8x19	76
		<b>A 50 4</b>	576	396	40	19	21.5	6	2.5	35	M6x16	77

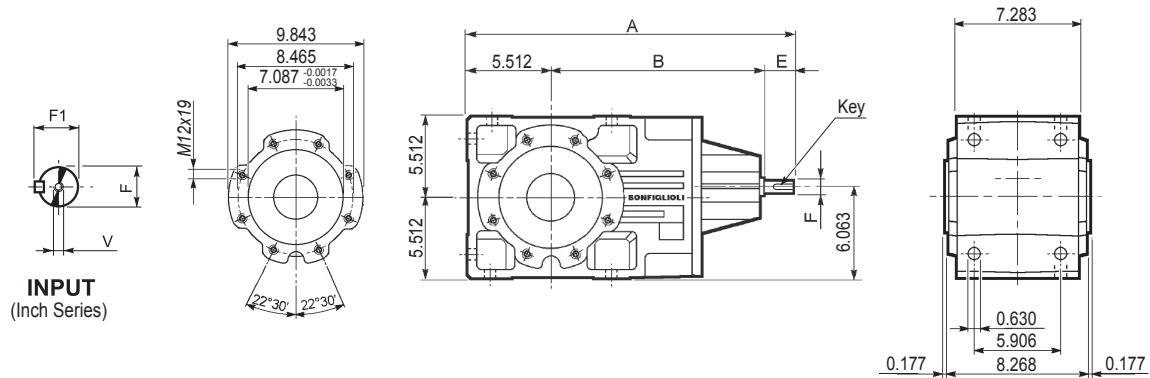
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

## A 50...F...





## A 50...NHS

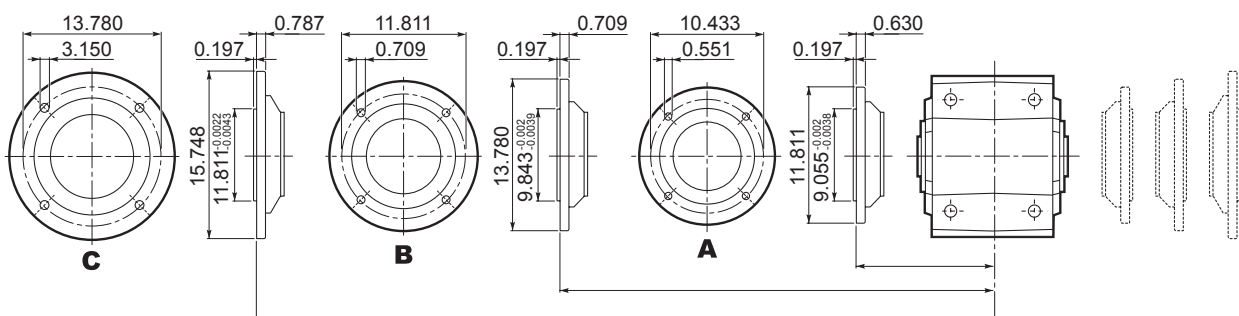


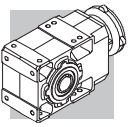
Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

		A	B	E	F	F1	V	Key	lbs		
		A 50 2	NHS	21.398	13.917	1.969	1.000 <sup>+0</sup> <sub>-0.0005</sub>	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	159
		A 50 3	NHS	21.398	13.917	1.969	1.000 <sup>+0</sup> <sub>-0.0005</sub>	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	168
		A 50 4	NHS	22.677	15.591	1.575	0.750 <sup>+0</sup> <sub>-0.0005</sub>	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	170

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

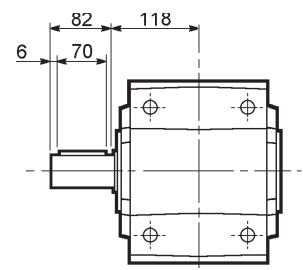
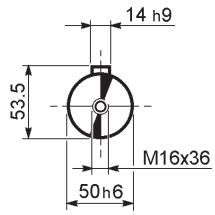
## A 50...F...



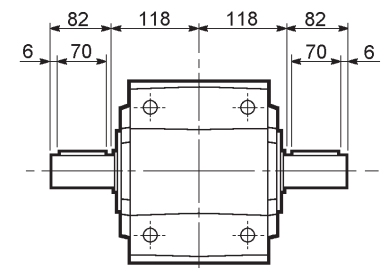
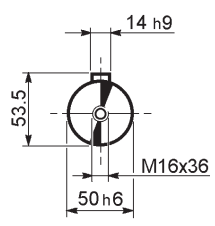


# A 50

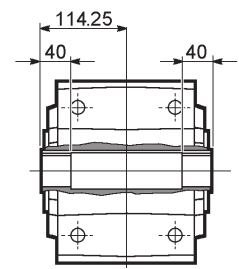
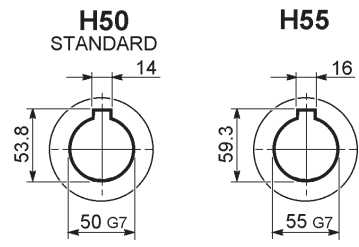
## A 50...UR



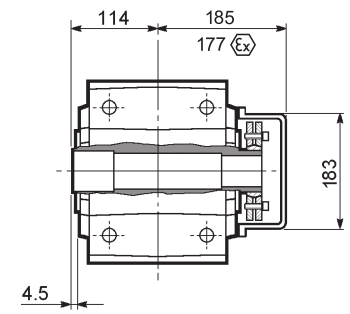
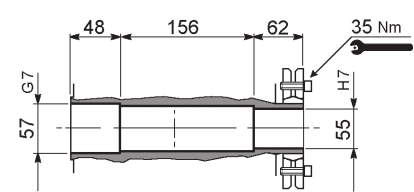
## A 50...UD



## A 50...UH

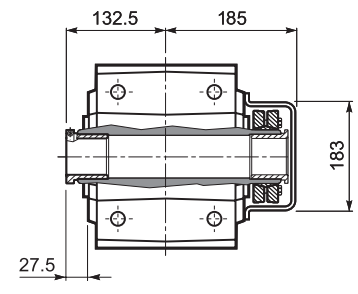
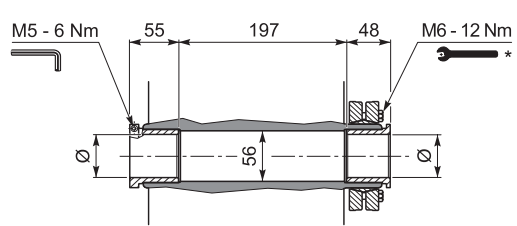


## A 50...US

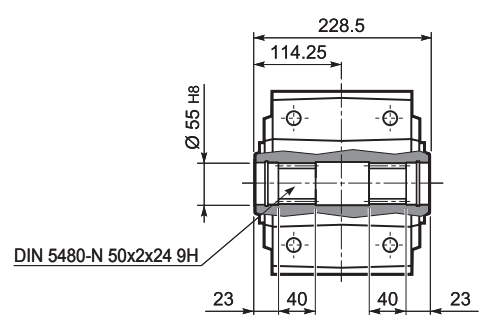


## A 50...QF

	Ø
QF50	50
QF55	55

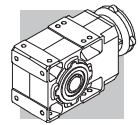


## A 50...UV



\* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

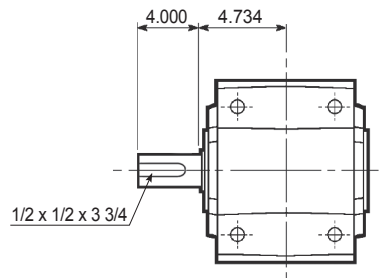
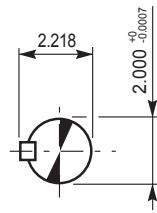




# A 50

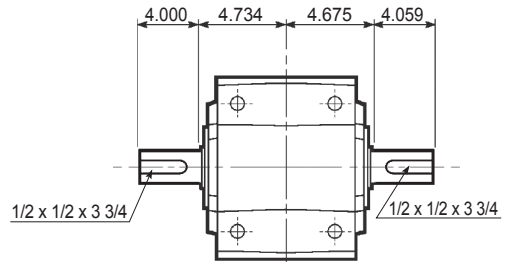
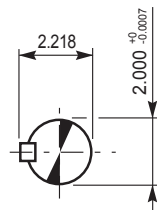
## A 50...NUR

**OUTPUT**  
(Inch Series)



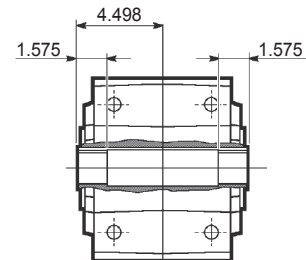
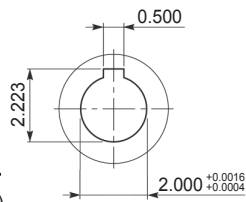
## A 50...NUD

**OUTPUT**  
(Inch Series)

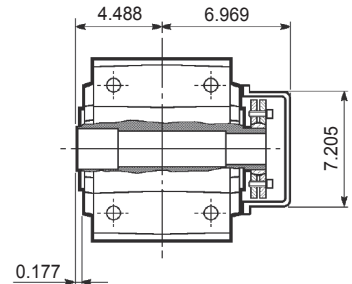
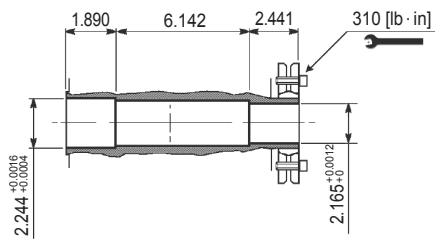


## A 50...NUH

**OUTPUT**  
(Inch Series)

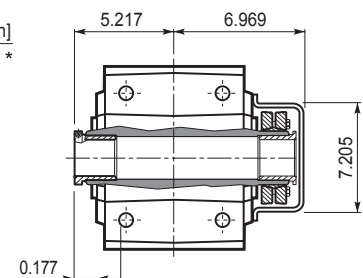
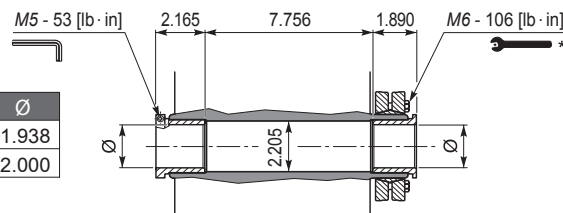


## A 50...US

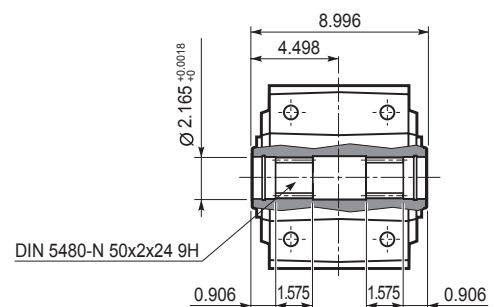


## A 50...NQF

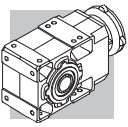
	Ø
NQF1-15/16	1.938
NQF2	2.000



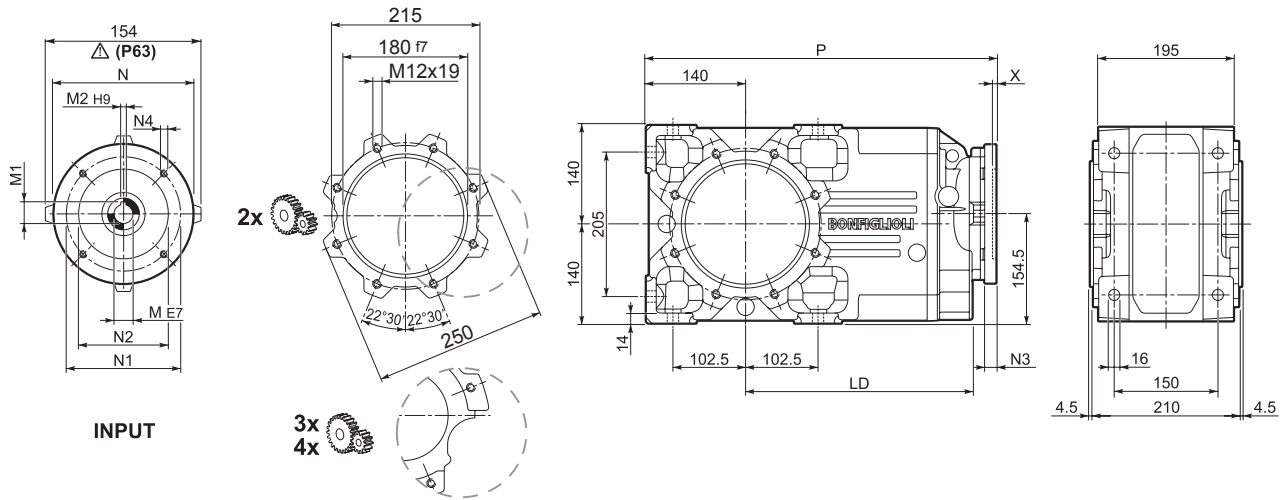
## A 50...UV






\* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.



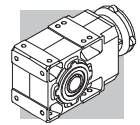
## A 55...P(IEC)



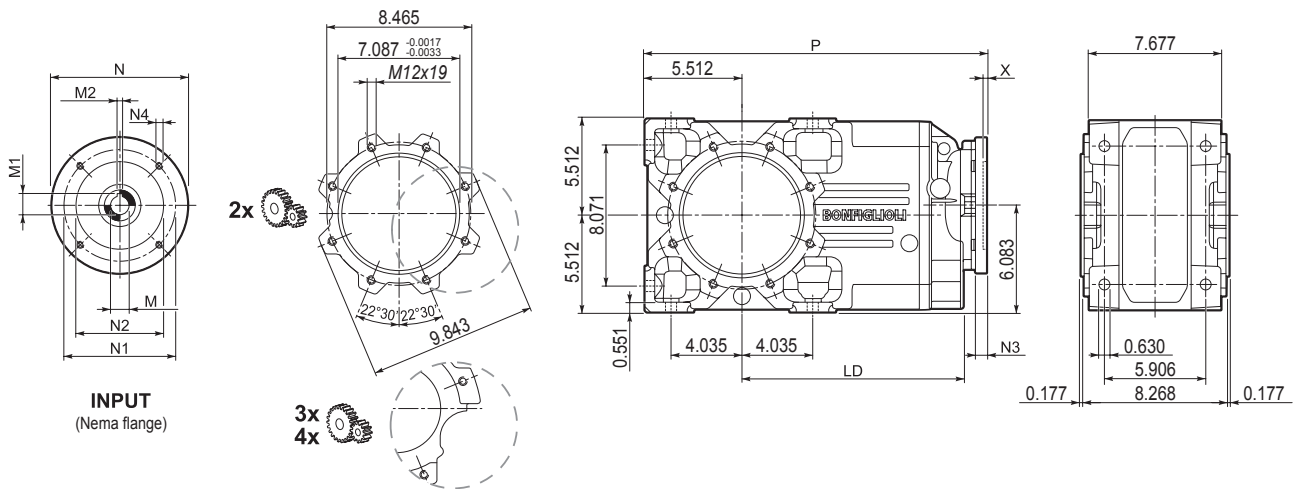
Dimensões em mm

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	
													
A 55 3	P63	302.5	11	12.8	4	140	115	95	—	M8x19	4	472.5	75
A 55 3	P71	302.5	14	16.3	5	160	130	110	—	M8x16	4.5	472.5	75
A 55 2/3	P80	317.5	19	21.8	6	200	165	130	—	M10x12	4	492	81
A 55 2/3	P90	317.5	24	27.3	8	200	165	130	—	M10x12	4	492	81
A 55 2/3	P100	302.5	28	31.3	8	250	215	180	—	M12x16	4.5	502	85
A 55 2/3	P112	302.5	28	31.3	8	250	215	180	—	M12x16	4.5	502	85
A 55 2/3	P132	302.5	38	41.3	10	300	265	230	16	14	5	538.5	93
A 55 2/3	P160	—	42	45.3	12	350	300	250	23	18	5.5	589	110
A 55 2/3	P180	—	48	51.8	14	350	300	250	23	18	5.5	589	110
A 55 4	P63	—	11	12.8	4	140	115	95	—	M8x19	4	544	77
A 55 4	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	544	77
A 55 4	P80	—	19	21.8	6	200	165	130	—	M10x12	4	563.5	78
A 55 4	P90	—	24	27.3	8	200	165	130	—	M10x12	4	563.5	78
A 55 4	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	573.5	82
A 55 4	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	573.5	82

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA



## A 55...N(NEMA Input)



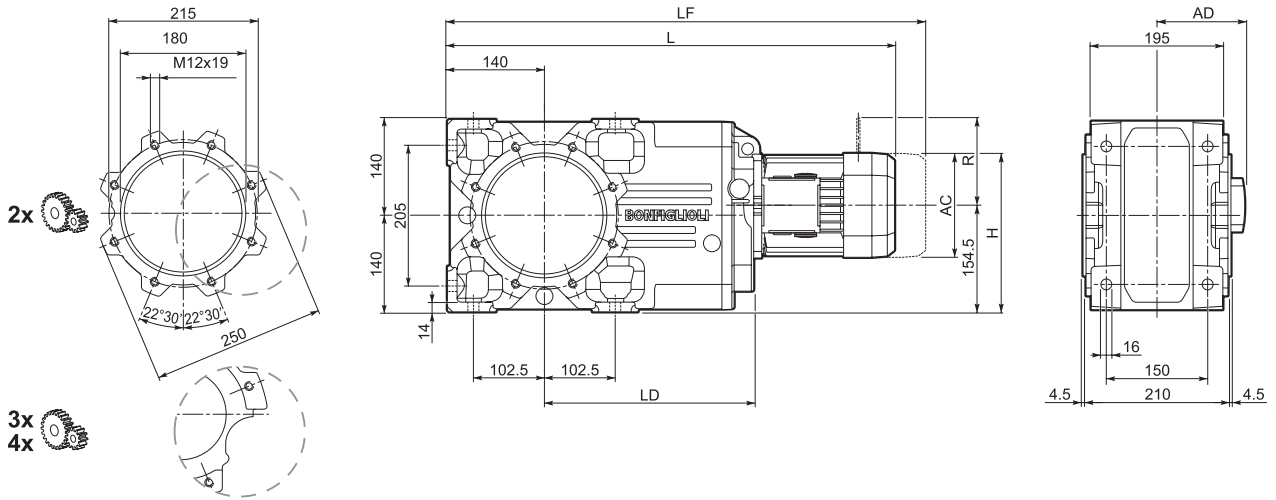
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	
A 55 3	N56C	11.909	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	19.390	165
A 55 3	N140TC	11.909	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	19.390	179
A 55 2/3	N180TC	12.500	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.630	0.551	0.217	20.138	187
A 55 2/3	N210TC	11.909	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.531	0.531	0.217	21.378	205
A 55 2/3	N250TC	—	1.625 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.796	0.375 <sup>+0.0014</sup> / <sub>+0</sub>	13.780	7.250	8.500	—	0.551	0.217	24.173	272
A 55 2/3	N280TC	—	1.875 <sup>+0.0030</sup> / <sub>+0.0020</sub>	2.102	0.500 <sup>+0.0017</sup> / <sub>+0</sub>	13.740	10.500	9.000	—	0.551	0.217	24.370	276
A 55 4	N56C	—	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	22.205	170
A 55 4	N140TC	—	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	22.205	172
A 55 4	N180TC	—	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.630	0.551	0.217	23.031	181

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

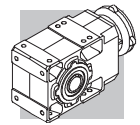


## A 55...M/ME

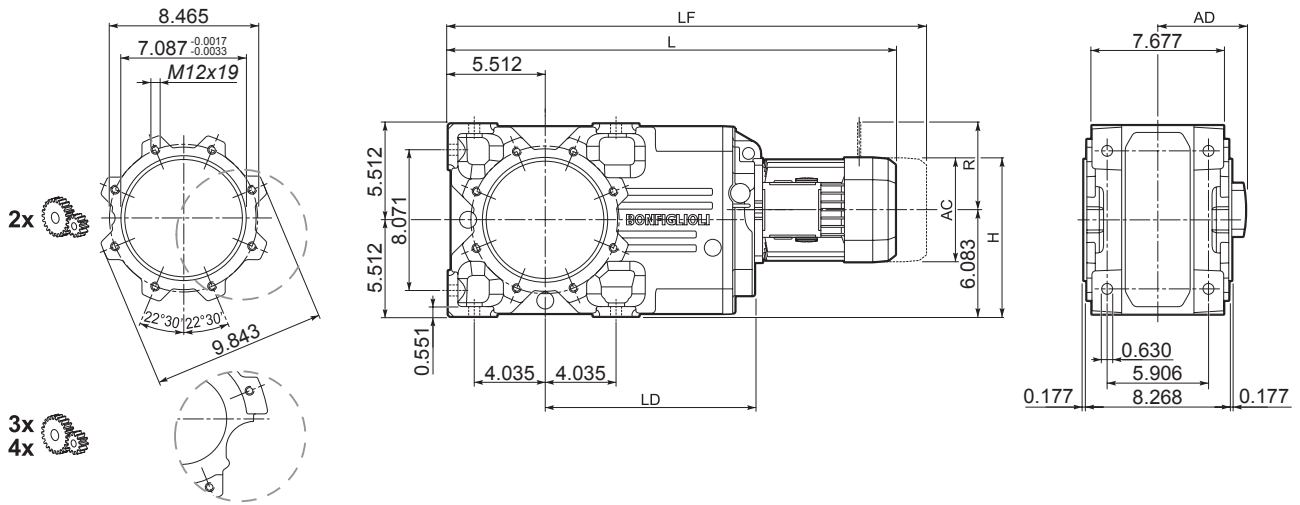


Dimensões em mm

										M...FD M...FA		M...FD		M...FA			
			AC	H	L	LD	AD		LF		R	AD	R	AD			
			A 55 3	S1	M1	138	198.5	627.5	—	108	81	688.5	84	103	135	124	108
			A 55 2/3	S2	ME2S	156	232	656.5	302.5	119	88	—	—	—	—	—	—
			A 55 2/3	S3	ME3S	195	251	699.5	317.5	142	94.5	—	—	—	—	—	—
			A 55 2/3	S3	ME3L	195	251	731.5	317.5	142	101	—	—	—	—	—	—
			A 55 2/3	S4	ME4	258	283	839.5	302.5	193	135	—	—	—	—	—	—
			A 55 2/3	S4	ME4LB	258	283	874.5	302.5	193	143	—	—	—	—	—	—
			A 55 2/3	S5	ME5S	310	309.5	926	—	245	163	—	—	—	—	—	—
			A 55 2/3	S5	ME5L	310	309.5	970	—	245	179	—	—	—	—	—	—
			A 55 4	S1	M1	138	223	699	—	108	82	760	85	103	135	124	108
			A 55 4	S2	ME2S	156	232	728	—	119	86	—	—	—	—	—	—
			A 55 4	S3	ME3S	195	251.5	771	—	142	92.5	—	—	—	—	—	—
			A 55 4	S3	ME3L	195	251.5	803	—	142	98	—	—	—	—	—	—

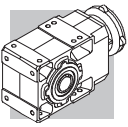


## A 55...M/ME

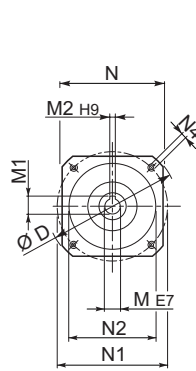
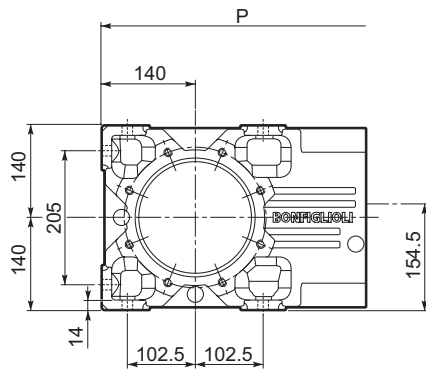


Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

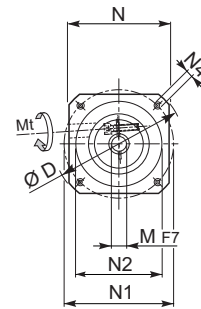
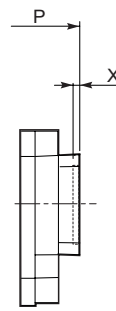
Icon 1	Icon 2	Icon 3	AC	H	L	LD	AD	lbs	M...FD M...FA		M...FD		M...FA	
									LF	lbs	R	AD	R	AD
A 55 3	S1	M1	5.433	7.815	24.705	—	4.252	179	27.106	185	4.055	5.315	4.882	4.252
A 55 2/3	S2	ME2S	6.142	9.134	25.846	11.909	4.685	194	—	—	—	—	—	—
A 55 2/3	S3	ME3S	7.677	9.882	27.539	12.500	5.591	208	—	—	—	—	—	—
A 55 2/3	S3	ME3L	7.677	9.882	28.799	12.500	5.591	223	—	—	—	—	—	—
A 55 2/3	S4	ME4	10.157	11.142	33.051	11.909	7.598	298	—	—	—	—	—	—
A 55 2/3	S4	ME4LB	10.157	11.142	34.429	11.909	7.598	315	—	—	—	—	—	—
A 55 2/3	S5	ME5S	12.205	12.185	36.457	—	9.646	359	—	—	—	—	—	—
A 55 2/3	S5	ME5L	12.205	12.185	38.189	—	9.646	395	—	—	—	—	—	—
A 55 4	S1	M1	5.433	8.780	27.520	—	4.252	181	29.921	187	4.055	5.315	4.882	4.252
A 55 4	S2	ME2S	6.142	9.134	28.661	—	4.685	190	—	—	—	—	—	—
A 55 4	S3	ME3S	7.677	9.902	30.354	—	5.591	204	—	—	—	—	—	—
A 55 4	S3	ME3L	7.677	9.902	31.614	—	5.591	216	—	—	—	—	—	—



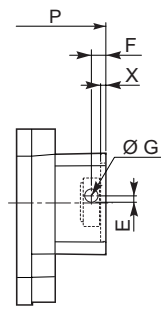
## A 55...SK / SC



**SK...**



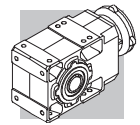
**SC...**



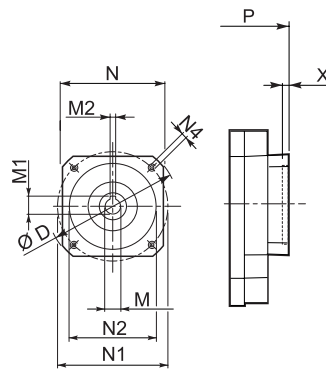
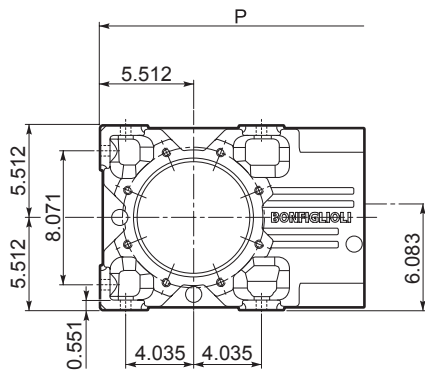
Dimensões em mm

		D	M	M1	M2	N	N1	N2	N4	X	P		Kg
											2/3x	4x	
		120	14	16.3	5	96	100	80	M6x12	4	492	—	81
<b>A 55 2/3/4</b>	<b>SK80C</b>	120	19	21.8	6	96	100	80	M6x12	4	492	563.5	81/81/77
<b>A 55 3/4</b>	<b>SK95A</b>	130	14	16.3	5	102	115	95	M8x12	4	492	563.5	81/81/77
<b>A 55 2/3/4</b>	<b>SK95B</b>	130	19	21.8	6	102	115	95	M8x12	4	492	563.5	81/81/77
<b>A 55 2/3/4</b>	<b>SK95C</b>	130	24	27.3	8	102	115	95	M8x12	4	492	563.5	81/81/77
<b>A 55 2/3/4</b>	<b>SK110A</b>	150	19	21.8	6	120	130	110	M8x12	5	492	593	81/81/78
<b>A 55 2/3/4</b>	<b>SK110B</b>	150	24	27.3	8	120	130	110	M8x12	5	492	593	81/81/78
<b>A 55 2/3/4</b>	<b>SK130A</b>	188	24	27.3	8	142	165	130	M10x20	5	492	593	83/83/79
<b>A 55 2/3</b>	<b>SK130B</b>	189	32	35.3	10	160	165	130	M10x20	5	538.5	—	90/90
<b>A 55 2/3</b>	<b>SK180A</b>	240	32	35.3	10	192	215	180	M12x19	5	538.5	—	90/90
<b>A 55 2/3</b>	<b>SK180B</b>	240	38	41.3	10	192	215	180	M12x19	5	538.5	—	90/90

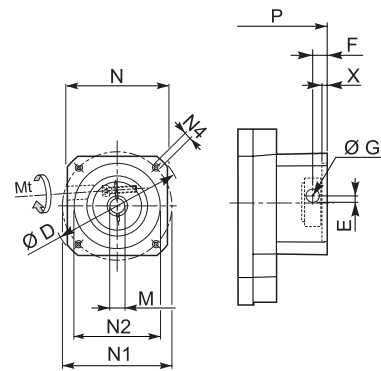
		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		Kg
													2/3x	3x	
		M6 15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	515.5	—	82
<b>A 55 2/3/4</b>	<b>SC80C</b>	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	515.5	587	82/82/78
<b>A 55 3/4</b>	<b>SC95A</b>	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	515.5	587	82/82/78
<b>A 55 2/3/4</b>	<b>SC95B</b>	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	515.5	587	82/82/78
<b>A 55 2/3/4</b>	<b>SC95C</b>	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	515.5	587	82/82/78
<b>A 55 2/3/4</b>	<b>SC110A</b>	M6 15	150	16.5	16	17.75	19	120	130	110	M8x16	5	515.5	587	83/83/79
<b>A 55 2/3/4</b>	<b>SC110B</b>	M6 15	150	16.5	16	17.75	24	120	130	110	M8x16	5	515.5	587	83/83/79
<b>A 55 2/3/4</b>	<b>SC130A</b>	M6 15	188	19	16	17.75	24	142	165	130	M10x20	5	515.5	587	84/84/80
<b>A 55 2/3</b>	<b>SC130B</b>	M8 36	189	20	17	17.75	32	160	165	130	M10x20	5	561.5	—	93/93
<b>A 55 2/3</b>	<b>SC180A</b>	M8 36	240	20	17.5	17.75	32	192	215	180	M12x24	5	565.5	—	93/93
<b>A 55 2/3</b>	<b>SC180B</b>	M8 36	240	20	17.5	17.75	38	192	215	180	M12x24	5	565.5	—	93/93



## A 55...SK / SC



**SK...**



**SC...**

Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

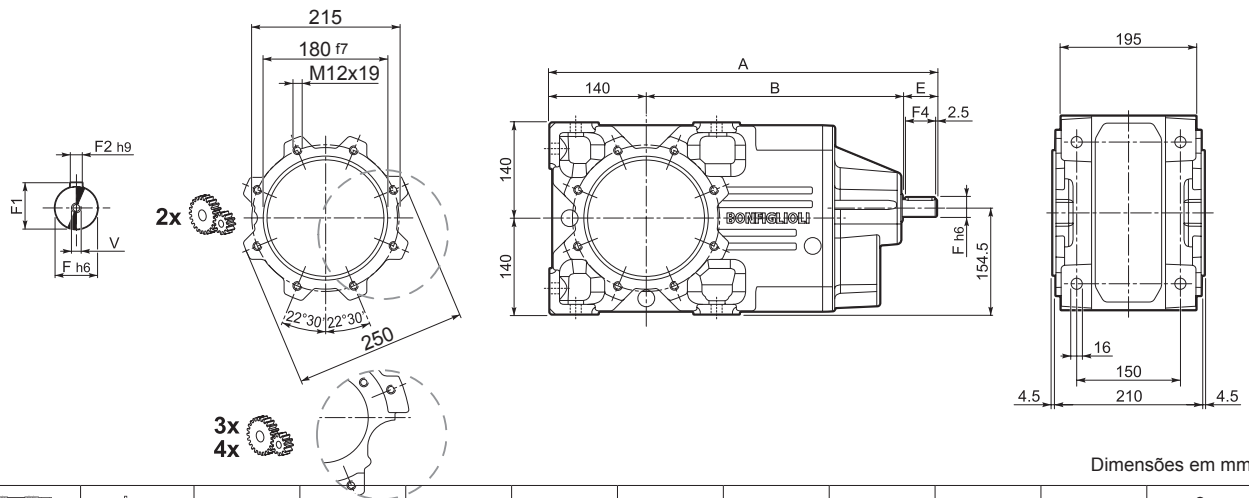
Icon	Icon	D	M	M1	M2	N	N1	N2	N4	X	P		lbs
											2/3x	4x	
A 55 3	SK80B	4.724	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	3.780	3.937	3.150	M6x12	0.157	19.370	—	179
A 55 2/3/4	SK80C	4.724	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	3.780	3.937	3.150	M6x12	0.157	19.370	22.185	179/179/170
A 55 3/4	SK95A	5.118	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	4.016	4.528	3.740	M8x12	0.157	19.370	22.185	179/179/170
A 55 2/3/4	SK95B	5.118	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	4.016	4.528	3.740	M8x12	0.157	19.370	22.185	179/179/170
A 55 2/3/4	SK95C	5.118	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	4.016	4.528	3.740	M8x12	0.157	19.370	22.185	179/179/170
A 55 2/3/4	SK110A	5.906	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	4.724	5.118	4.331	M8x12	0.197	19.370	23.346	179/179/172
A 55 2/3/4	SK110B	5.906	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	4.724	5.118	4.331	M8x12	0.197	19.370	23.346	179/179/172
A 55 2/3/4	SK130A	7.402	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	5.591	6.496	5.118	M10x20	0.197	19.370	23.346	183/183/174
A 55 2/3	SK130B	7.441	1.260 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.390	0.394 <sup>+0.0014</sup> / <sub>+0</sub>	6.299	6.496	5.118	M10x20	0.197	21.201	—	198/198
A 55 2/3	SK180A	9.449	1.260 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.390	0.394 <sup>+0.0014</sup> / <sub>+0</sub>	7.559	8.465	7.087	M12x19	0.197	21.201	—	198/198
A 55 2/3	SK180B	9.449	1.496 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.626	0.394 <sup>+0.0014</sup> / <sub>+0</sub>	7.559	8.465	7.087	M12x19	0.197	21.201	—	198/198

Icon	Icon	Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P		lbs
													2/3x	3x	
A 55 3	SC80B	M6 133	4.724	0.610	0.571	0.699	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.780	3.937	3.150	M6x12	0.157	20.295	—	181
A 55 2/3/4	SC80C	M6 133	4.724	0.610	0.571	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	3.780	3.937	3.150	M6x12	0.157	20.295	23.110	181/181/172
A 55 3/4	SC95A	M6 133	5.118	0.650	0.591	0.699	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	4.016	4.528	3.740	M8x16	0.157	20.295	23.110	181/181/172
A 55 2/3/4	SC95B	M6 133	5.118	0.650	0.591	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	M8x16	0.157	20.295	23.110	181/181/172
A 55 2/3/4	SC95C	M6 133	5.118	0.650	0.591	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	M8x16	0.157	20.295	23.110	181/181/172
A 55 2/3/4	SC110A	M6 133	5.906	0.650	0.630	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	M8x16	0.197	20.295	23.110	183/183/174
A 55 2/3/4	SC110B	M6 133	5.906	0.650	0.630	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	M8x16	0.197	20.295	23.110	183/183/174
A 55 2/3/4	SC130A	M6 133	7.402	0.748	0.630	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	5.591	6.496	5.118	M10x20	0.197	20.295	23.110	185/185/176
A 55 2/3	SC130B	M8 319	7.441	0.787	0.669	0.699	1.260 <sup>+0.0020</sup> / <sub>+0.0010</sub>	6.299	6.496	5.118	M10x20	0.197	22.106	—	205/205
A 55 2/3	SC180A	M8 319	9.449	0.787	0.689	0.699	1.260 <sup>+0.0020</sup> / <sub>+0.0010</sub>	7.559	8.465	7.087	M12x24	0.197	22.264	—	205/205
A 55 2/3	SC180B	M8 319	9.449	0.787	0.689	0.699	1.496 <sup>+0.0020</sup> / <sub>+0.0010</sub>	7.559	8.465	7.087	M12x24	0.197	22.264	—	205/205





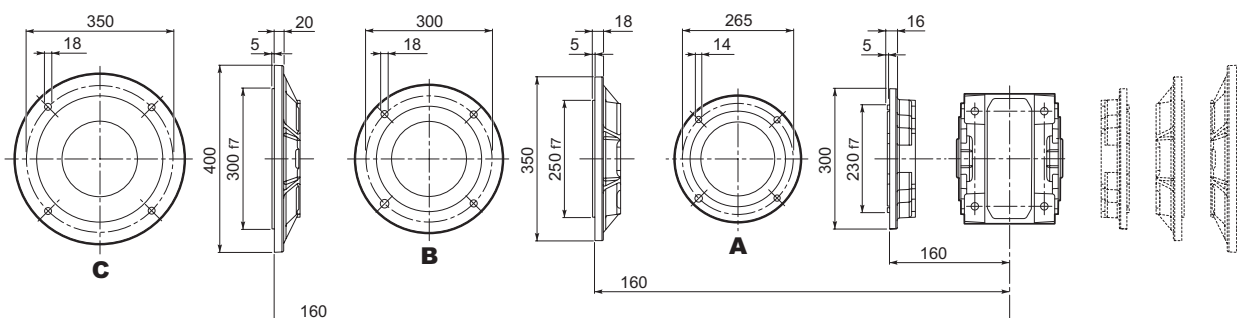
## A 55...HS

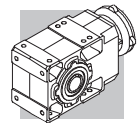


		A	B	E	F	F1	F2	F3	F4	V	kg	
		A 55 2	561.5	371.5	50	24	27	8	2.5	45	M8x19	96
		A 55 3	561.5	371.5	50	24	27	8	2.5	45	M8x19	91
		A 55 4	594	414	40	19	21.5	6	2.5	35	M6x16	92

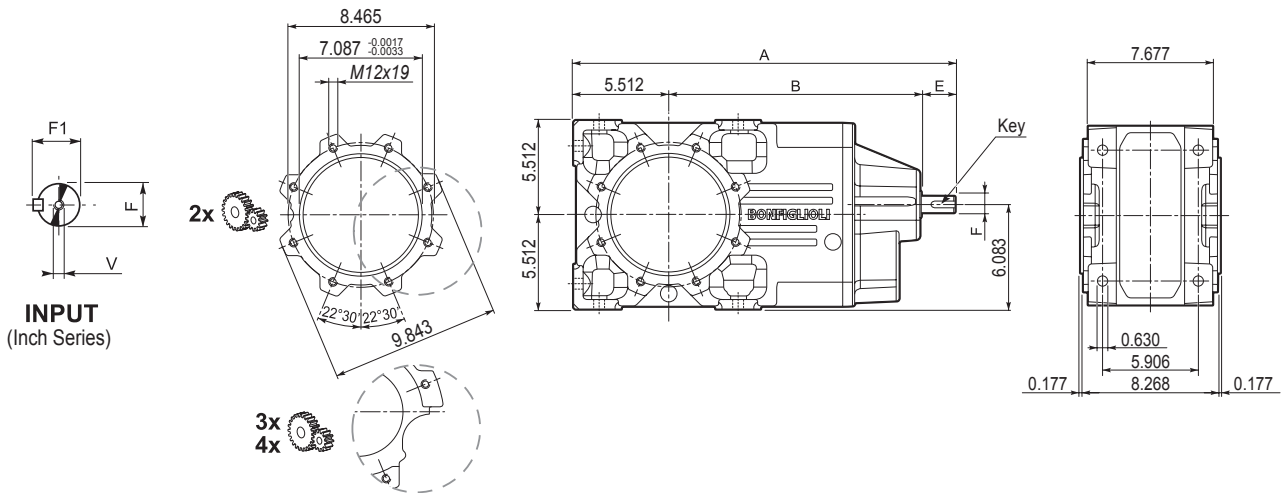
Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS

## A 55...F...





## A 55...NHS

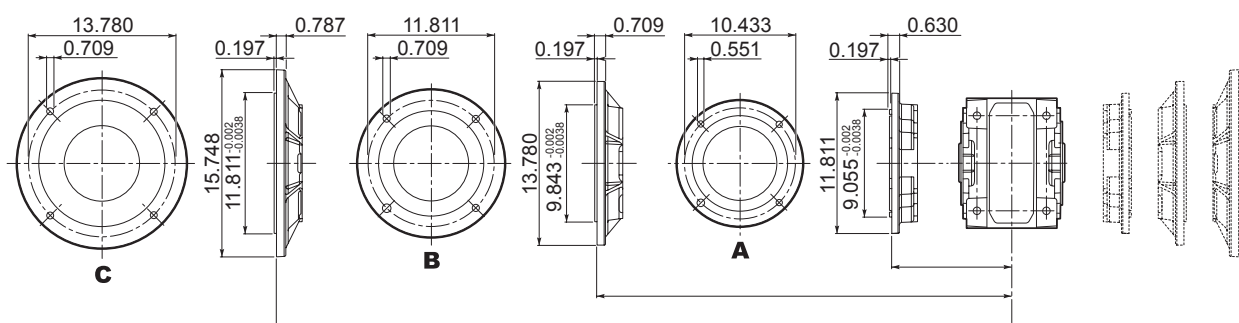


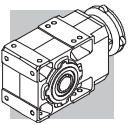
Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

		A	B	E	F	F1	V	Key	
<b>A 55 2</b>	<b>NHS</b>	22.106	14.626	1.969	1.000 <sup>+0</sup> <sub>-0.0005</sub>	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	212
<b>A 55 3</b>	<b>NHS</b>	22.106	14.626	1.969	1.000 <sup>+0</sup> <sub>-0.0005</sub>	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	201
<b>A 55 4</b>	<b>NHS</b>	23.386	16.299	1.575	0.750 <sup>+0</sup> <sub>-0.0005</sub>	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	203

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

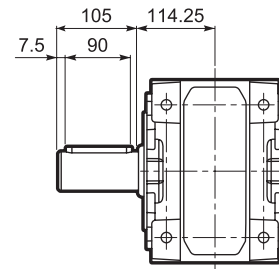
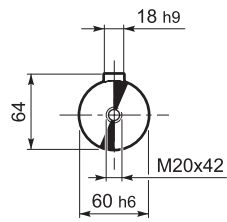
## A 55...F...



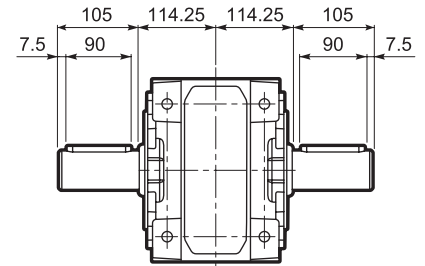
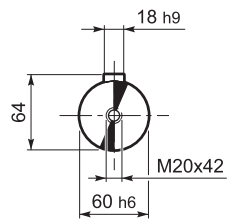


# A 55

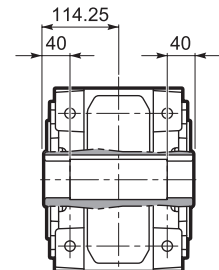
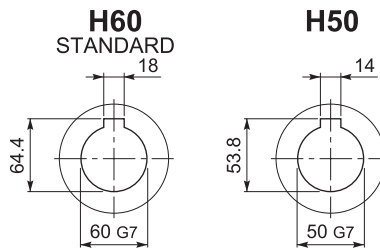
## A 55...UR



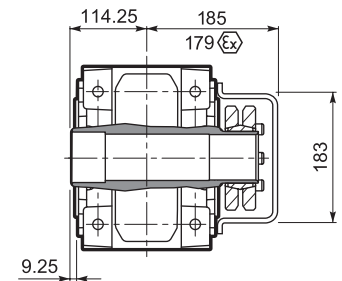
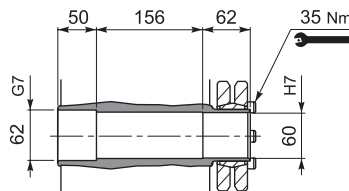
## A 55...UD



## A 55...UH



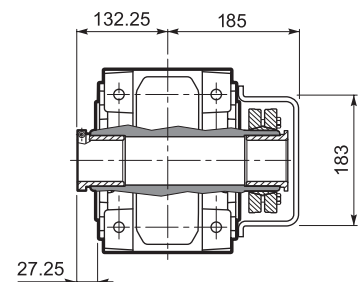
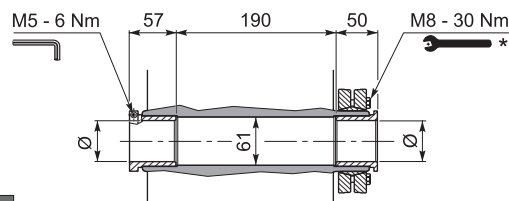
## A 55...US



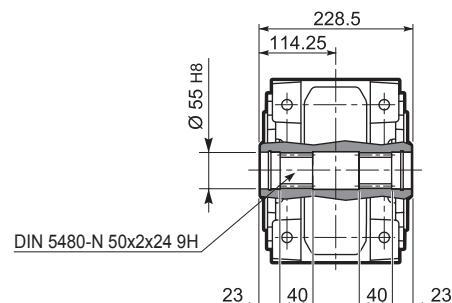
## A 55...QF

	Ø
QF55	55
QF60	60

	M <sub>n2</sub> max [Nm]
A 55 QF55	1900



## A 55...UV



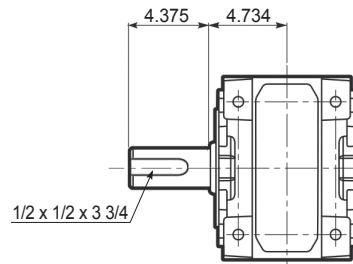
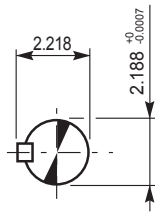
\* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.



# A 55

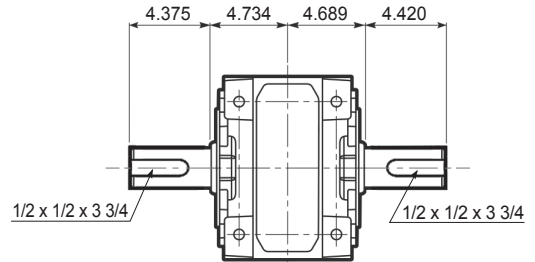
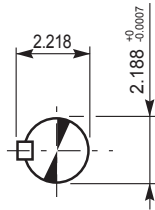
## A 55...NUR

**OUTPUT**  
(Inch Series)



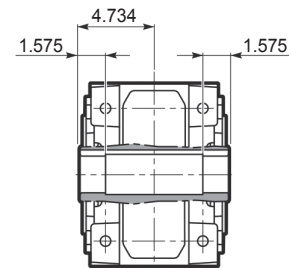
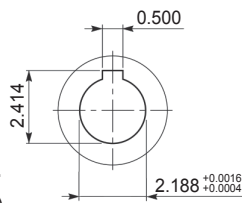
## A 55...NUD

**OUTPUT**  
(Inch Series)

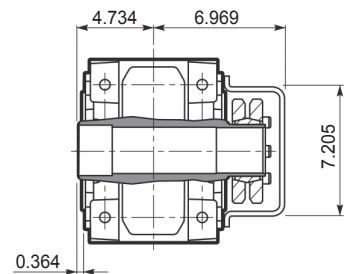
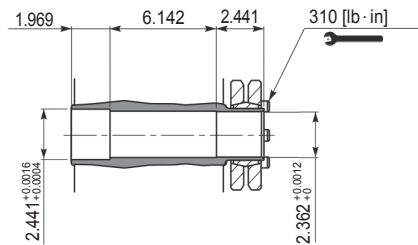


## A 55...NUH

**OUTPUT**  
(Inch Series)

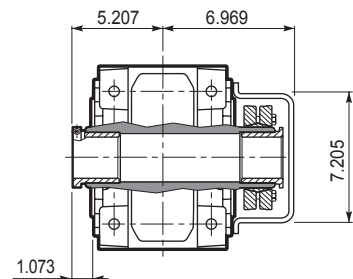
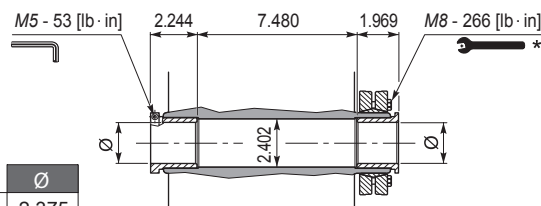


## A 55...US

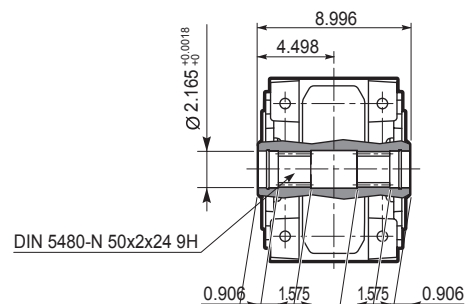


## A 55...NQF

	Ø
NQF2-3/8	2.375



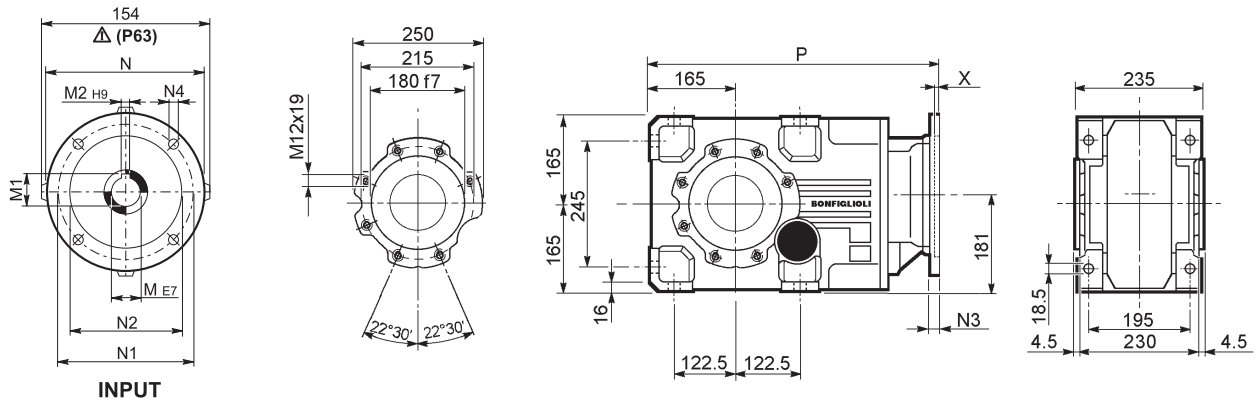
## A 55...UV






\* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.



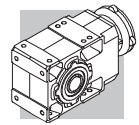
## A 60...P(IEC)



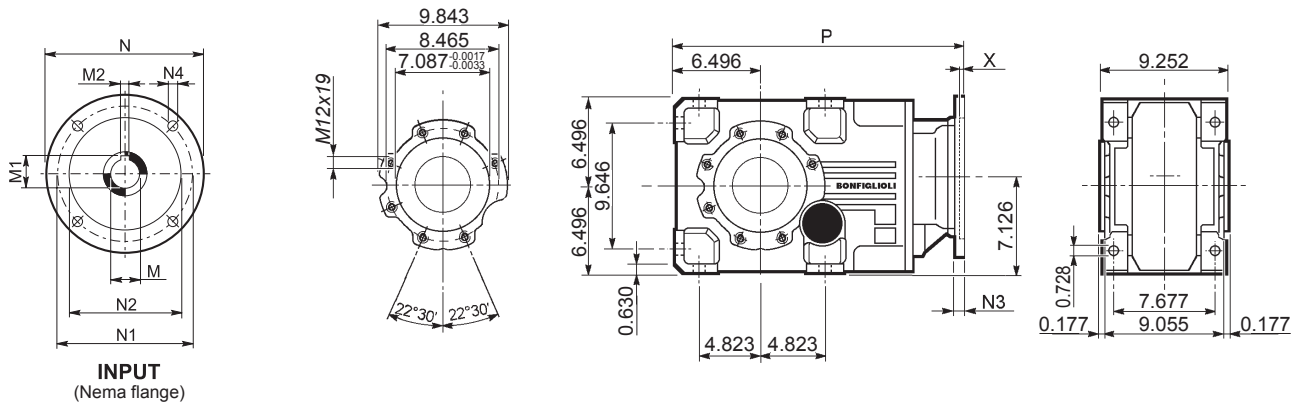
Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	
A 60 3	P63	11	12.8	4	140	115	95	—	M8x19	4	516.5	90
A 60 3	P71	14	16.3	5	160	130	110	—	M8x16	4.5	516.5	90
A 60 2/3	P80	19	21.8	6	200	165	130	—	M10x12	4	536	91
A 60 2/3	P90	24	27.3	8	200	165	130	—	M10x12	4	536	91
A 60 2/3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	546	95
A 60 2/3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	546	95
A 60 2/3	P132	38	41.3	10	300	265	230	16	14	5	582.5	104
A 60 2/3	P160	42	45.3	12	350	300	250	23	18	5.5	633	121
A 60 2/3	P180	48	51.8	14	350	300	250	23	18	5.5	633	121
A 60 4	P63	11	12.8	4	140	115	95	—	M8x19	4	587	88
A 60 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	587	88
A 60 4	P80	19	21.8	6	200	165	130	—	M10x12	4	606.5	90
A 60 4	P90	24	27.3	8	200	165	130	—	M10x12	4	606.5	90
A 60 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	616.5	94
A 60 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	616.5	94




Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA



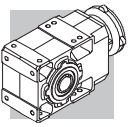
## A 60...N(NEMA Input)



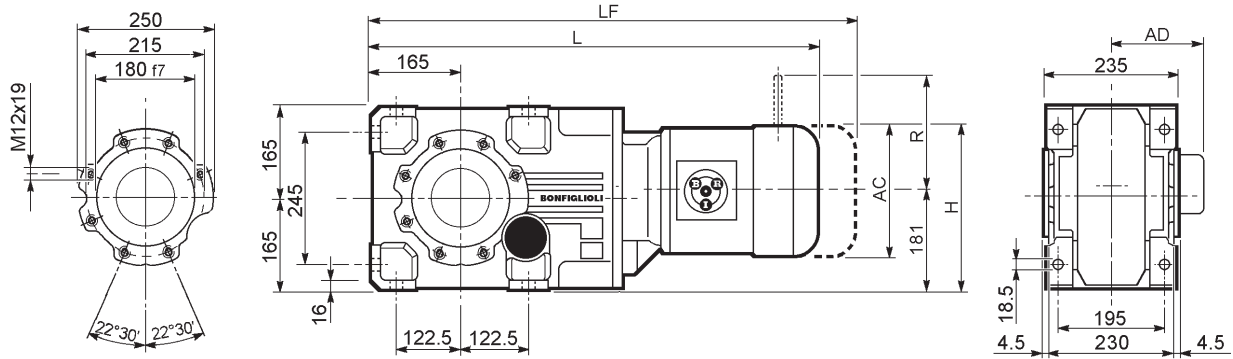
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		M	M1	M2	N	N1	N2	N3	N4	X	P	
A 60 3	N140TC	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	21.122	201
A 60 3	N180TC	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.630	0.551	0.217	21.870	209
A 60 2/3	N210TC	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.531	0.531	0.217	23.110	229
A 60 2/3	N250TC	1.625 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.796	0.375 <sup>+0.0014</sup> / <sub>+0</sub>	13.780	7.250	8.500	—	0.551	0.217	25.906	297
A 60 2/3	N280TC	1.875 <sup>+0.0030</sup> / <sub>+0.0020</sub>	2.102	0.500 <sup>+0.0017</sup> / <sub>+0</sub>	13.740	10.500	9.000	—	0.551	0.217	26.102	300
A 60 4	N56C	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	23.898	194
A 60 4	N140TC	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	23.898	198
A 60 4	N180TC	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.630	0.551	0.217	24.724	207

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC



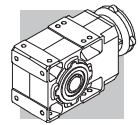
## A 60...M/ME



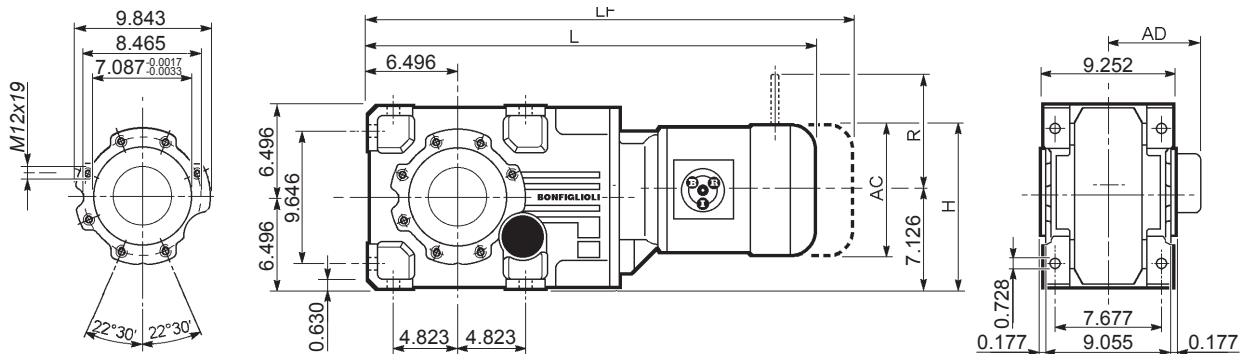
Dimensões em mm

									M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD	Kg	LF	Kg	R	AD	R	AD	
A 60 2/3	S2	ME2S	156	256.5	700.5	119	98	—	—	—	—	—	—	
A 60 2/3	S3	ME3S	195	276	743.5	142	103	—	—	—	—	—	—	
A 60 2/3	S3	ME3L	195	276	775.5	142	111	—	—	—	—	—	—	
A 60 2/3	S4	ME4	258	307.5	883.5	193	145	—	—	—	—	—	—	
A 60 2/3	S4	ME4LB	258	307.5	918.5	193	153	—	—	—	—	—	—	
A 60 2/3	S5	ME5S	310	333.5	970	245	173	—	—	—	—	—	—	
A 60 2/3	S5	ME5L	310	333.5	1014	245	189	—	—	—	—	—	—	
A 60 4	S1	M1	138	247.5	742	108	100	803	103	103	135	124	108	
A 60 4	S2	ME2S	156	256.5	771	119	104	—	—	—	—	—	—	
A 60 4	S3	ME3S	195	276	814	142	109	—	—	—	—	—	—	
A 60 4	S3	ME3L	195	276	846	142	117	—	—	—	—	—	—	



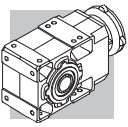


## A 60...M/ME

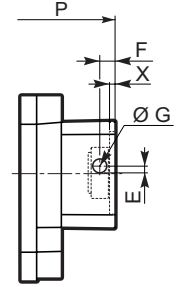
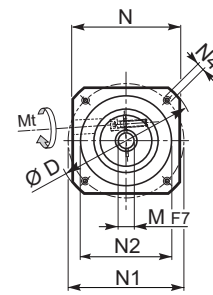
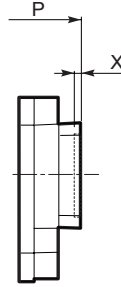
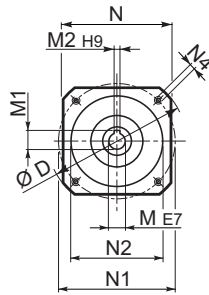
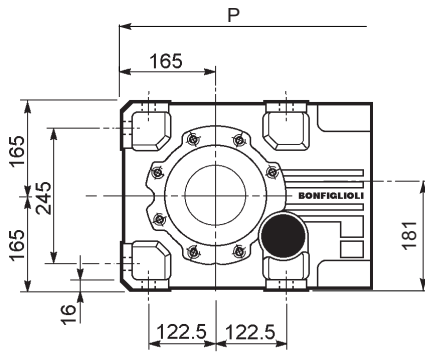


Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

			AC	H	L	AD	lbs	M...FD M...FA		M...FD		M...FA	
								LF	lbs	R	AD	R	AD
A 60 2/3	S2	ME2S	6.142	10.098	27.579	4.685	216	—	—	—	—	—	—
A 60 2/3	S3	ME3S	7.677	10.866	29.272	5.591	227	—	—	—	—	—	—
A 60 2/3	S3	ME3L	7.677	10.866	30.531	5.591	245	—	—	—	—	—	—
A 60 2/3	S4	ME4	10.157	12.106	34.783	7.598	320	—	—	—	—	—	—
A 60 2/3	S4	ME4LB	10.157	12.106	36.161	7.598	337	—	—	—	—	—	—
A 60 2/3	S5	ME5S	12.205	13.130	38.189	9.646	381	—	—	—	—	—	—
A 60 2/3	S5	ME5L	12.205	13.130	39.921	9.646	417	—	—	—	—	—	—
A 60 4	S1	M1	5.433	9.744	29.213	4.252	220	31.614	227	4.055	5.315	4.882	4.252
A 60 4	S2	ME2S	6.142	10.098	30.354	4.685	229	—	—	—	—	—	—
A 60 4	S3	ME3S	7.677	10.866	32.047	5.591	240	—	—	—	—	—	—
A 60 4	S3	ME3L	7.677	10.866	33.307	5.591	258	—	—	—	—	—	—



## A 60...SK / SC



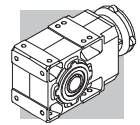
SK...

SC...

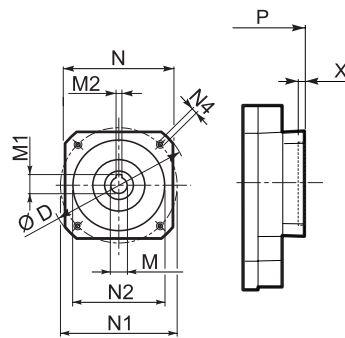
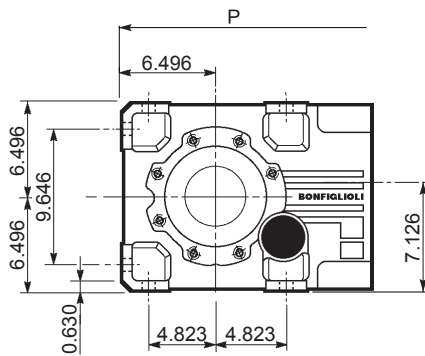
Dimensões em mm

		D	M	M1	M2	N	N1	N2	N4	X	P		Kg
											2/3x	4x	
		120	14	16.3	5	96	100	80	M6x12	4	—	606.5	89
<b>A 60 2/3/4</b>	<b>SK80C</b>	120	19	21.8	6	96	100	80	M6x12	4	536	606.5	93/93/92
<b>A 60 2/3/4</b>	<b>SK95A</b>	130	14	16.3	5	102	115	95	M8x12	4	536	606.5	93/93/92
<b>A 60 2/3/4</b>	<b>SK95B</b>	130	19	21.8	6	102	115	95	M8x12	4	536	606.5	93/93/92
<b>A 60 2/3/4</b>	<b>SK95C</b>	130	24	27.3	8	102	115	95	M8x12	4	536	606.5	93/93/92
<b>A 60 2/3/4</b>	<b>SK110A</b>	140	19	21.8	6	120	130	110	M8x12	5	536	606.5	93/93/92
<b>A 60 2/3/4</b>	<b>SK110B</b>	140	24	27.3	8	120	130	110	M8x12	5	536	606.5	93/93/92
<b>A 60 2/3/4</b>	<b>SK130A</b>	188	24	27.3	8	142	165	130	M10x20	5	536	606.5	97/97/103
<b>A 60 2/3</b>	<b>SK130B</b>	189	32	35.3	10	160	165	130	M10x20	5	582.5	—	102/102
<b>A 60 2/3</b>	<b>SK180A</b>	240	32	35.3	10	192	215	180	M12x19	5	582.5	—	102/102
<b>A 60 2/3</b>	<b>SK180B</b>	240	38	41.3	10	192	215	180	M12x19	5	582.5	—	102/102

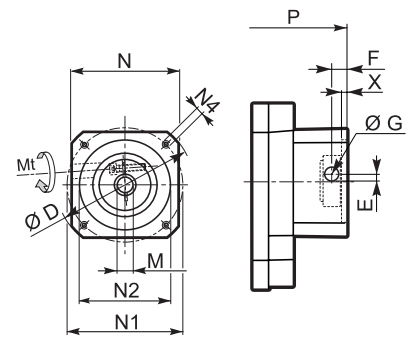
		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		Kg
													2/3x	3x	
		M6 15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	—	630	90
<b>A 60 2/3/4</b>	<b>SC80C</b>	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	559.5	630	94/94/93
<b>A 60 2/3/4</b>	<b>SC95A</b>	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	559.5	630	94/94/93
<b>A 60 2/3/4</b>	<b>SC95B</b>	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	559.5	630	94/94/93
<b>A 60 2/3/4</b>	<b>SC95C</b>	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	559.5	630	94/94/93
<b>A 60 2/3/4</b>	<b>SC110A</b>	M6 15	140	16.5	16	17.75	19	120	130	110	M8x16	5	559.5	630	95/95/93
<b>A 60 2/3/4</b>	<b>SC110B</b>	M6 15	140	16.5	16	17.75	24	120	130	110	M8x16	5	559.5	630	95/95/93
<b>A 60 2/3/4</b>	<b>SC130A</b>	M6 15	188	19	16	17.75	24	142	165	130	M10x20	5	559.5	630	96/96/104
<b>A 60 2/3</b>	<b>SC130B</b>	M8 36	189	20	17	17.75	32	160	165	130	M10x20	5	605.5	—	105/105
<b>A 60 2/3</b>	<b>SC180A</b>	M8 36	240	20	17.5	17.75	32	192	215	180	M12x24	5	609.5	—	105/105
<b>A 60 2/3</b>	<b>SC180B</b>	M8 36	240	20	17.5	17.75	38	192	215	180	M12x24	5	609.5	—	105/105



## A 60...SK / SC



SK...



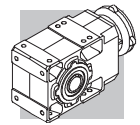
SC...

Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

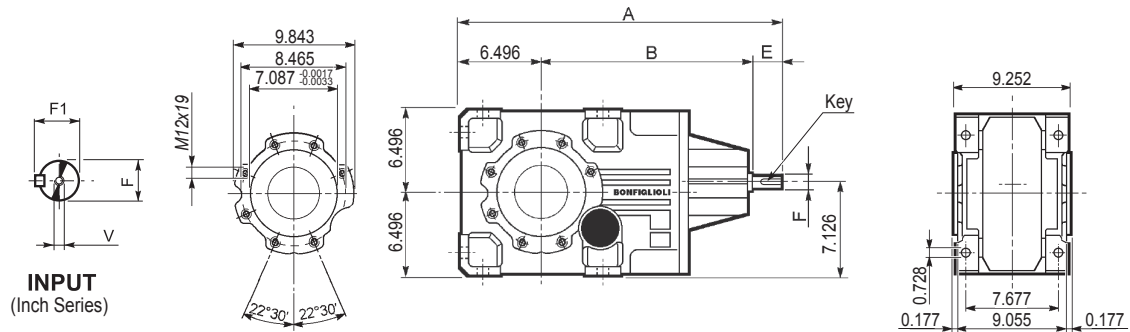
		D	M	M1	M2	N	N1	N2	N4	X	P		lbs
											2/3x	4x	
A 60 4	SK80B	4.724	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	3.780	3.937	3.150	M6x12	0.157	—	23.878	196
A 60 2/3/4	SK80C	4.724	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	3.780	3.937	3.150	M6x12	0.157	21.102	23.878	205/205/203
A 60 2/3/4	SK95A	5.118	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	4.016	4.528	3.740	M8x12	0.157	21.102	23.878	205/205/203
A 60 2/3/4	SK95B	5.118	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	4.016	4.528	3.740	M8x12	0.157	21.102	23.878	205/205/203
A 60 2/3/4	SK95C	5.118	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	4.016	4.528	3.740	M8x12	0.157	21.102	23.878	205/205/203
A 60 2/3/4	SK110A	5.512	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	4.724	5.118	4.331	M8x12	0.197	21.102	23.878	205/205/203
A 60 2/3/4	SK110B	5.512	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	4.724	5.118	4.331	M8x12	0.197	21.102	23.878	205/205/203
A 60 2/3/4	SK130A	7.402	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	5.591	6.496	5.118	M10x20	0.197	21.102	23.878	214/214/227
A 60 2/3	SK130B	7.441	1.260 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.390	0.394 <sup>+0.0014</sup> / <sub>+0</sub>	6.299	6.496	5.118	M10x20	0.197	22.933	—	225/225
A 60 2/3	SK180A	9.449	1.260 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.390	0.394 <sup>+0.0014</sup> / <sub>+0</sub>	7.559	8.465	7.087	M12x19	0.197	22.933	—	225/225
A 60 2/3	SK180B	9.449	1.496 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.626	0.394 <sup>+0.0014</sup> / <sub>+0</sub>	7.559	8.465	7.087	M12x19	0.197	22.933	—	225/225

		Mt [lb·in]	D	E	F	G	M	N	N1	N2	N4	X	P		lbs
													2/3x	3x	
A 60 4	SC80B	M6 133	4.724	0.610	0.571	0.699	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.780	3.937	3.150	M6x12	0.157	—	24.803	198
A 60 2/3/4	SC80C	M6 133	4.724	0.610	0.571	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	3.780	3.937	3.150	M6x12	0.157	22.028	24.803	207/207/205
A 60 2/3/4	SC95A	M6 133	5.118	0.650	0.591	0.699	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	4.016	4.528	3.740	M8x16	0.157	22.028	24.803	207/207/205
A 60 2/3/4	SC95B	M6 133	5.118	0.650	0.591	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	M8x16	0.157	22.028	24.803	207/207/205
A 60 2/3/4	SC95C	M6 133	5.118	0.650	0.591	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	M8x16	0.157	22.028	24.803	207/207/205
A 60 2/3/4	SC110A	M6 133	5.512	0.650	0.630	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	M8x16	0.197	22.028	24.803	209/209/205
A 60 2/3/4	SC110B	M6 133	5.512	0.650	0.630	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	M8x16	0.197	22.028	24.803	209/209/205
A 60 2/3/4	SC130A	M6 133	7.402	0.748	0.630	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	5.591	6.496	5.118	M10x20	0.197	22.028	24.803	212/212/229
A 60 2/3	SC130B	M8 319	7.441	0.787	0.669	0.699	1.260 <sup>+0.0020</sup> / <sub>+0.0010</sub>	6.299	6.496	5.118	M10x20	0.197	23.839	—	231/231
A 60 2/3	SC180A	M8 319	9.449	0.787	0.689	0.699	1.260 <sup>+0.0020</sup> / <sub>+0.0010</sub>	7.559	8.465	7.087	M12x24	0.197	23.996	—	231/231
A 60 2/3	SC180B	M8 319	9.449	0.787	0.689	0.699	1.496 <sup>+0.0020</sup> / <sub>+0.0010</sub>	7.559	8.465	7.087	M12x24	0.197	23.996	—	231/231





## A 60...NHS

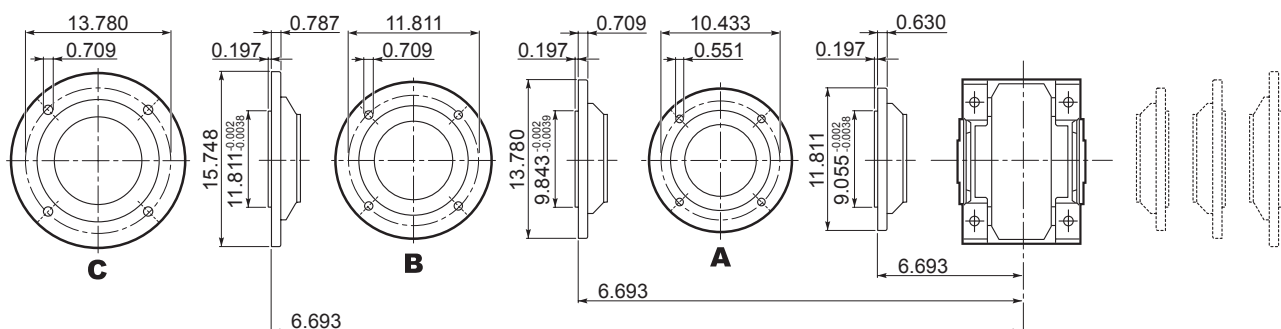


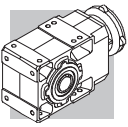
Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

		A	B	E	F	F1	V	Key	lbs
<b>A 60 2</b>	<b>NHS</b>	24.921	16.063	2.362	1.125 <sup>+0</sup> <sub>-0.0005</sub>	1.236	3/8 - 16 UNC	1/4 x 1/4 x 2 5/32	234
<b>A 60 3</b>	<b>NHS</b>	24.921	16.063	2.362	1.125 <sup>+0</sup> <sub>-0.0005</sub>	1.236	3/8 - 16 UNC	1/4 x 1/4 x 2 5/32	234
<b>A 60 4</b>	<b>NHS</b>	26.614	18.150	1.969	1.000 <sup>+0</sup> <sub>-0.0005</sub>	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	247

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

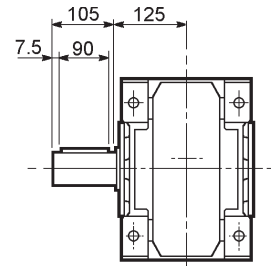
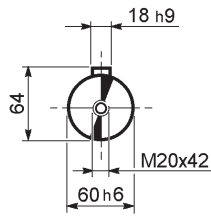
## A 60...F...



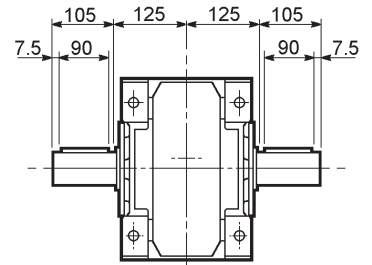
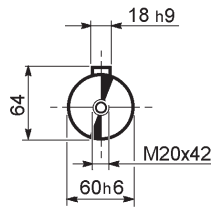


# A 60

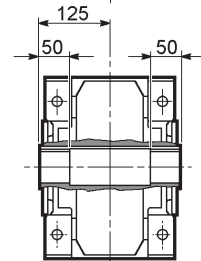
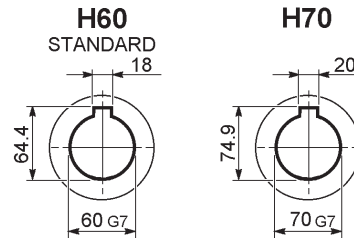
## A 60...UR



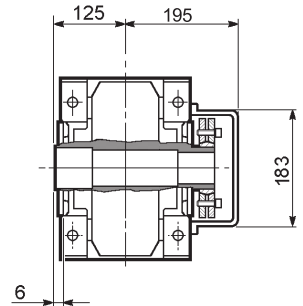
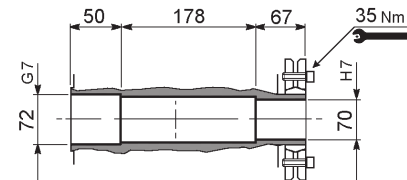
## A 60...UD



## A 60...UH

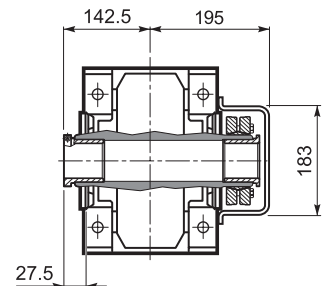
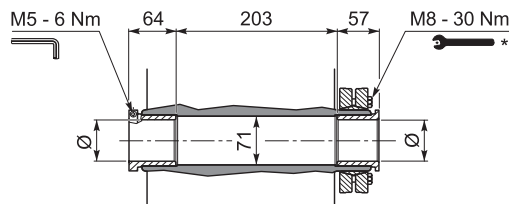


## A 60...US

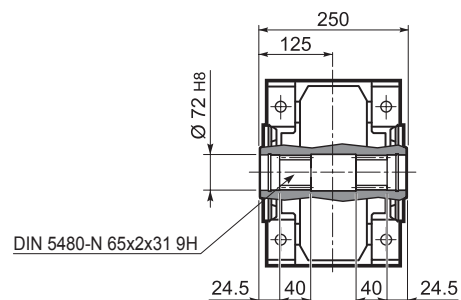


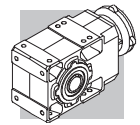
## A 60...QF

	Ø
QF60	60
QF65	65
QF70	70



## A 60...UV

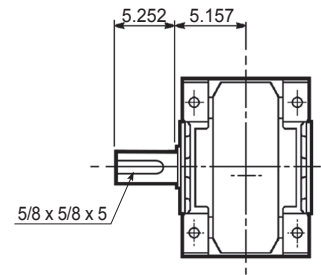
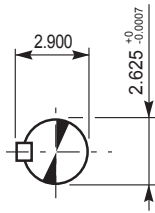




# A 60

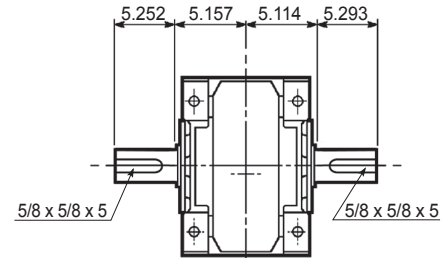
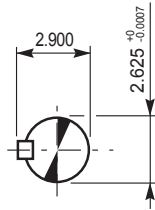
## A 60...NUR

OUTPUT  
(Inch Series)



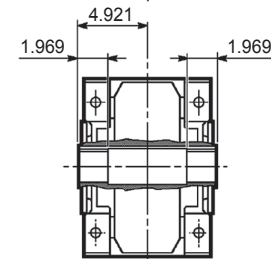
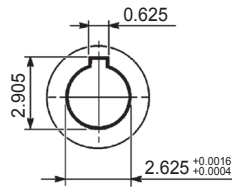
## A 60...NUD

OUTPUT  
(Inch Series)

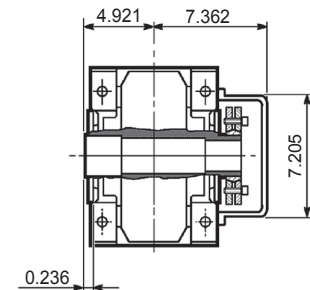
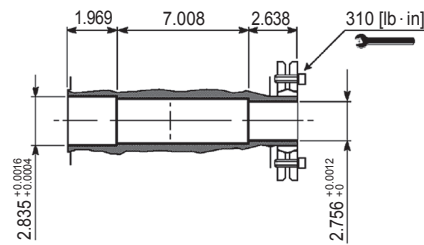


## A 60...NUH

OUTPUT  
(Inch Series)

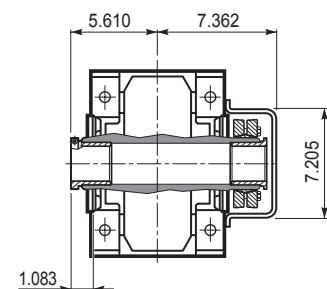
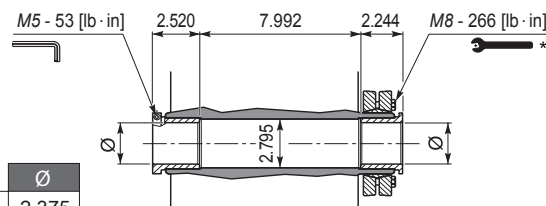


## A 60...US

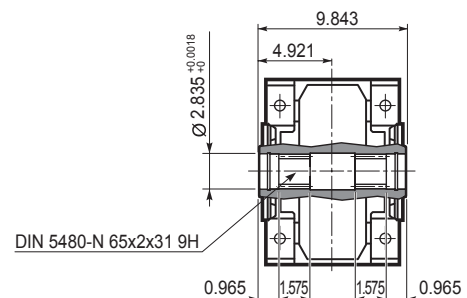


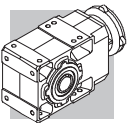
## A 60...NQF

	Ø
NQF2-3/8	2.375
NQF2-7/16	2.438
NQF2-3/4	2.750

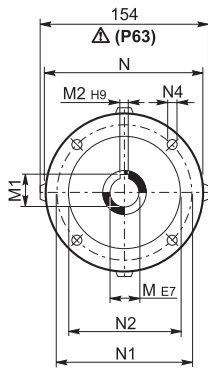


## A 60...UV

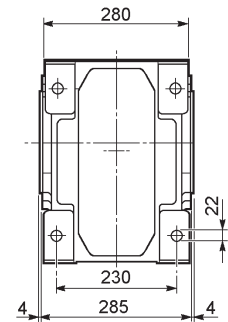
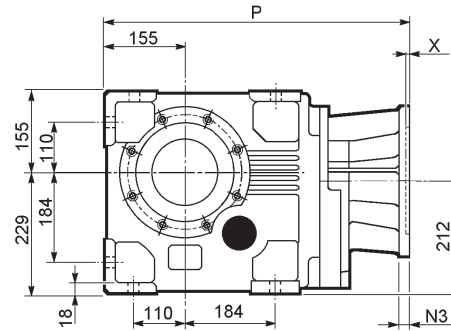
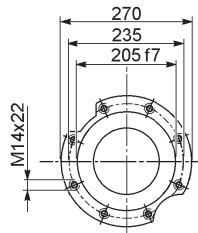







## A 70...P (IEC)



INPUT

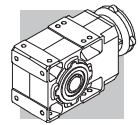


Dimensões em mm

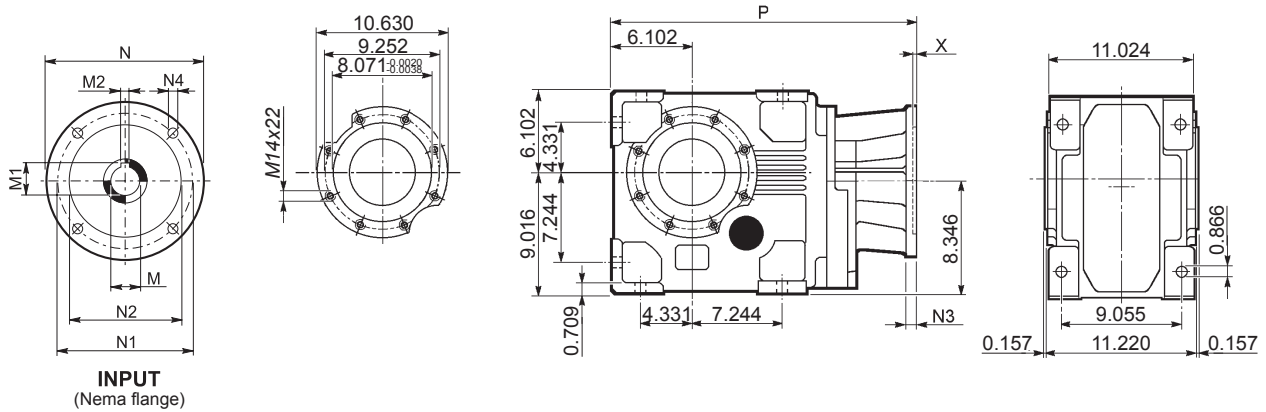
		M	M1	M2	N	N1	N2	N3	N4	X	P	 Kg
A 70 3	P80	19	21.8	6	200	165	130	—	M10x12	4	524	144
A 70 3	P90	24	27.3	8	200	165	130	—	M10x12	4	524	144
A 70 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	534	146
A 70 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	534	146
A 70 3	P132	38	41.3	10	300	265	230	16	14	5	570.5	154
A 70 3	P160	42	45.3	12	350	300	250	23	18	6	626	169
A 70 3	P180	48	51.8	14	350	300	250	23	18	6	626	169
A 70 3	P200	55	59.3	16	400	350	300	—	M16x25	7	651	179
A 70 4	P63	11	12.8	4	140	115	95	—	M8x19	4	555.5	146
A 70 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	555.5	146
A 70 4	P80	19	21.8	6	200	165	130	—	M10x12	4	575	147
A 70 4	P90	24	27.3	8	200	165	130	—	M10x12	4	575	147
A 70 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	585	148
A 70 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	585	148
A 70 4	P132	38	41.3	10	300	265	230	16	14	5	618.5	157

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA








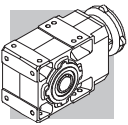
## A 70...N(NEMA Input)



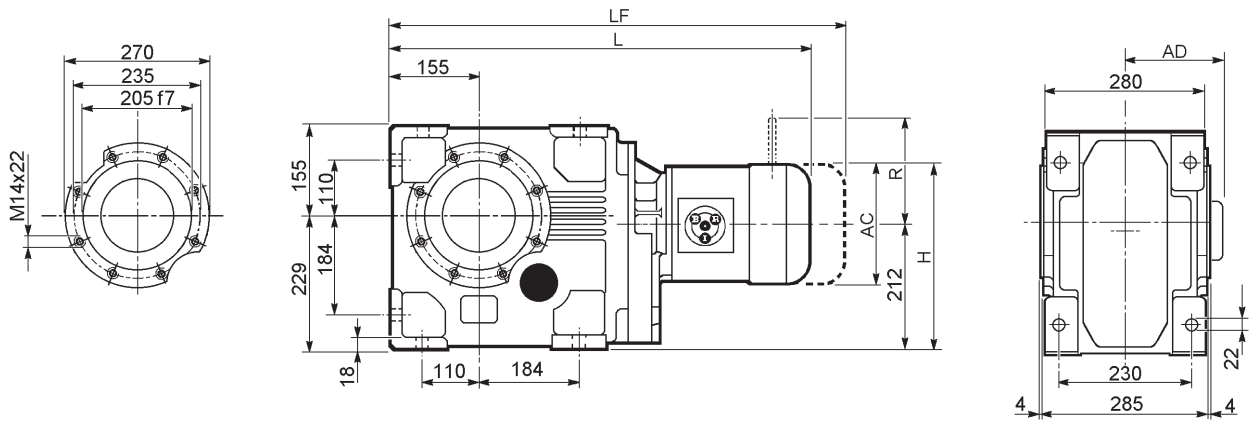
Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	
A 70 3	N140TC	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+</sub>	6.496	5.875	4.500	0.472	0.394	0.197	20.827	317
A 70 3	N180TC	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+</sub>	8.996	7.250	8.500	0.630	0.551	0.217	21.398	322
A 70 3	N210TC	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+0.0014</sup> / <sub>+</sub>	8.996	7.250	8.500	0.531	0.531	0.217	22.638	340
A 70 3	N250TC	1.625 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.796	0.375 <sup>+0.0014</sup> / <sub>+</sub>	13.780	7.250	8.500	—	0.551	0.217	25.630	402
A 70 3	N280TC	1.875 <sup>+0.0030</sup> / <sub>+0.0020</sub>	2.102	0.500 <sup>+0.0017</sup> / <sub>+</sub>	13.740	10.500	9.000	—	0.551	0.217	25.827	406
A 70 4	N56C	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0.0012</sup> / <sub>+</sub>	6.496	5.875	4.500	0.472	0.394	0.197	22.657	322
A 70 4	N140TC	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+</sub>	6.496	5.875	4.500	0.472	0.394	0.197	22.657	324
A 70 4	N180TC	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+</sub>	8.996	7.250	8.500	0.630	0.551	0.217	23.406	326
A 70 4	N210TC	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+0.0014</sup> / <sub>+</sub>	8.996	7.250	8.500	0.531	0.531	0.217	24.528	346

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

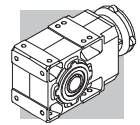


## A 70...M/ME

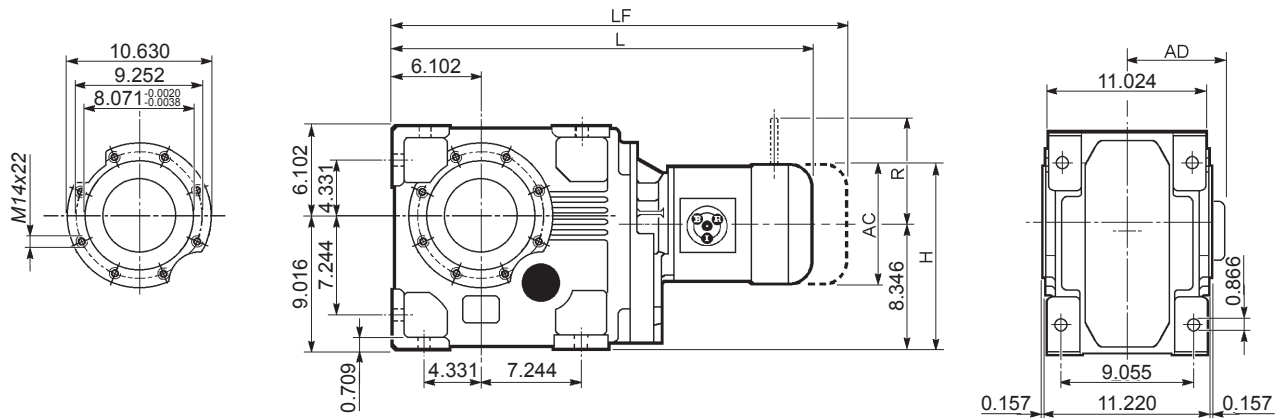


Dimensões em mm

			AC	H	L	AD	Kg	M...FD M...FA		M...FD		M...FA	
								LF	Kg	R	AD	R	AD
A 70 3	S2	ME2S	156	290	688.5	119	152	—	—	—	—	—	—
A 70 3	S3	ME3S	195	309.5	731.5	142	158.5	—	—	—	—	—	—
A 70 3	S3	ME3L	195	309.5	763.5	142	164	—	—	—	—	—	—
A 70 3	S4	ME4	258	341	872.5	193	198	—	—	—	—	—	—
A 70 3	S4	ME4LB	258	341	907.5	193	206	—	—	—	—	—	—
A 70 3	S5	ME5S	310	367	958	245	226	—	—	—	—	—	—
A 70 3	S5	ME5L	310	367	1002	245	242	—	—	—	—	—	—
A 70 4	S1	M1	138	281	710.5	108	152	771.5	155	103	135	124	108
A 70 4	S2	ME2S	156	290	739.5	119	156	—	—	—	—	—	—
A 70 4	S3	ME3S	195	309.5	782.5	142	162.5	—	—	—	—	—	—
A 70 4	S3	ME3L	195	309.5	814.5	142	168	—	—	—	—	—	—
A 70 4	S4	ME4	258	341	922.5	193	202	—	—	—	—	—	—
A 70 4	S4	ME4LB	258	341	957.5	193	210	—	—	—	—	—	—

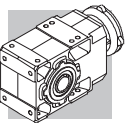


## A 70...M/ME

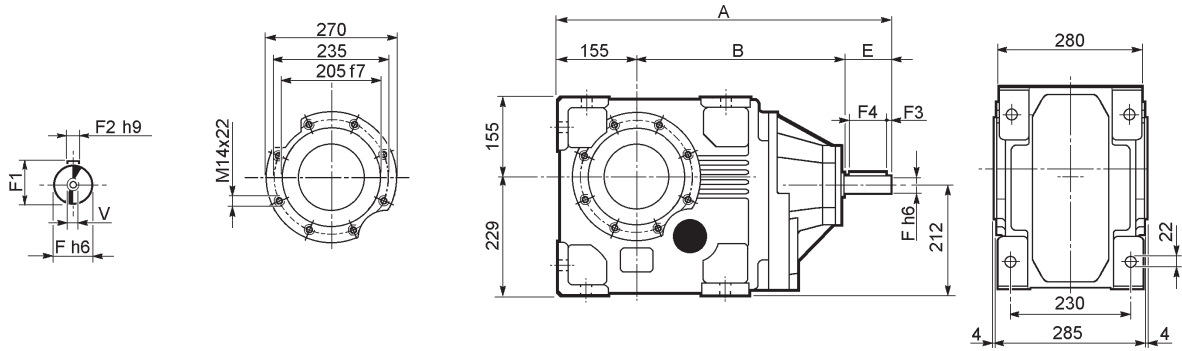


Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]



			AC	H	L	AD	lbs	M...FD		M...FD		M...FA	
								LF	lbs	R	AD	R	AD
A 70 3	S2	ME2S	6.142	11.417	27.106	4.685	335	—	—	—	—	—	—
A 70 3	S3	ME3S	7.677	12.185	28.799	5.591	349	—	—	—	—	—	—
A 70 3	S3	ME3L	7.677	12.185	30.059	5.591	362	—	—	—	—	—	—
A 70 3	S4	ME4	10.157	13.425	34.350	7.598	437	—	—	—	—	—	—
A 70 3	S4	ME4LB	10.157	13.425	35.728	7.598	454	—	—	—	—	—	—
A 70 3	S5	ME5S	12.205	14.449	37.717	9.646	498	—	—	—	—	—	—
A 70 3	S5	ME5L	12.205	14.449	39.449	9.646	534	—	—	—	—	—	—
A 70 4	S1	M1	5.433	11.063	27.972	4.252	335	30.374	342	4.055	5.315	4.882	4.252
A 70 4	S2	ME2S	6.142	11.417	29.114	4.685	344	—	—	—	—	—	—
A 70 4	S3	ME3S	7.677	12.185	30.807	5.591	358	—	—	—	—	—	—
A 70 4	S3	ME3L	7.677	12.185	32.067	5.591	370	—	—	—	—	—	—
A 70 4	S4	ME4	10.157	13.425	36.319	7.598	445	—	—	—	—	—	—
A 70 4	S4	ME4LB	10.157	13.425	37.697	7.598	463	—	—	—	—	—	—



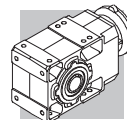
## A 70...HS



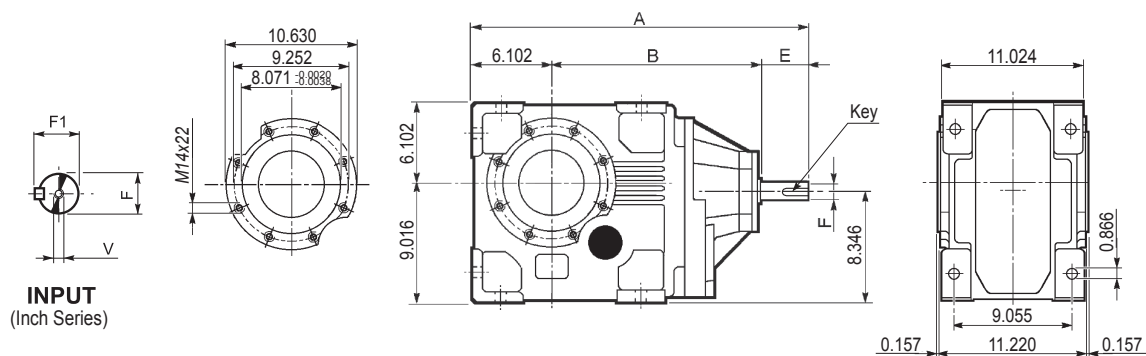
Dimensões em mm

		A	B	E	F	F1	F2	F3	F4	V	Kg	
		<b>A 70 3</b>	708.5	443.5	110	42	45	12	10	90	M12x28	165
		<b>A 70 4</b>	644.5	439.5	50	24	27	8	2.5	45	M8x19	149



Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS



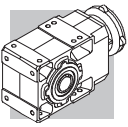
## A 70...NHS



Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

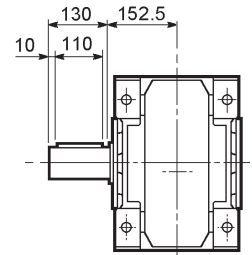
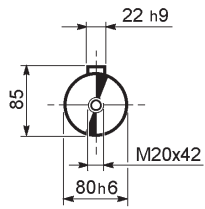
		A	B	E	F	F1	V	Key	lbs
		27.813	17.461	4.25	1.625 <sup>+0</sup> <sub>-0.0006</sub>	1.791	5/8 - 11 UNC	3/8 x 3/8 x 4	364
<b>A 70 3</b>	<b>NHS</b>	25.374	17.303	1.969	1.000 <sup>+0</sup> <sub>-0.0005</sub>	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	328

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

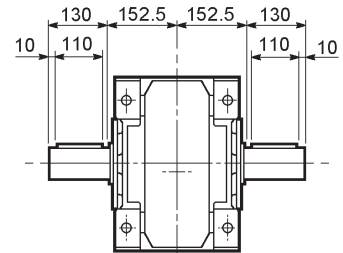
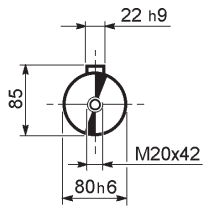


# A 70

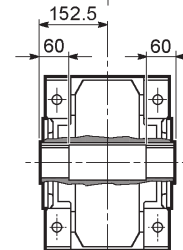
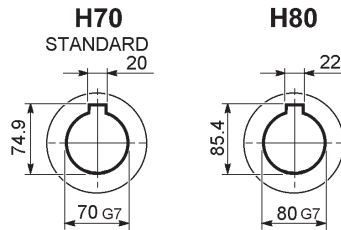
## A 70...UR



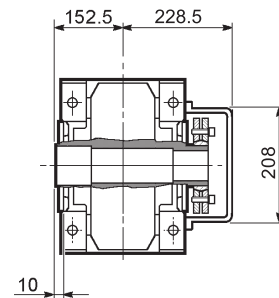
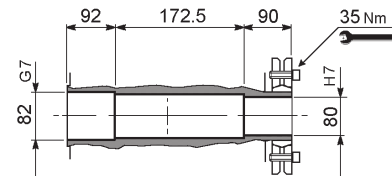
## A 70...UD



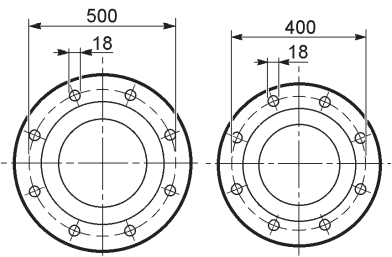
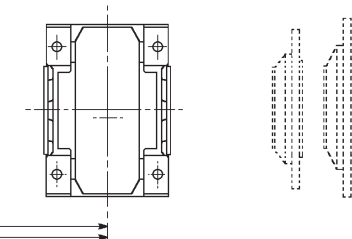
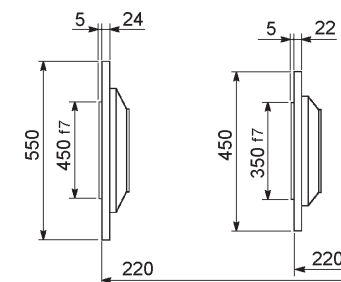
## A 70...UH



## A 70...US

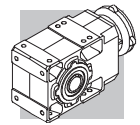


## A 70...F...



**B**

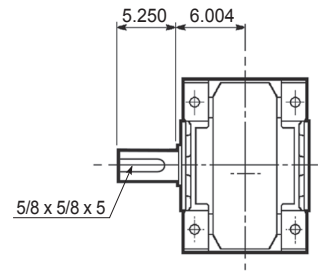
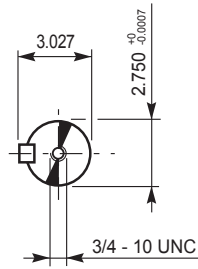
**A**



# A 70

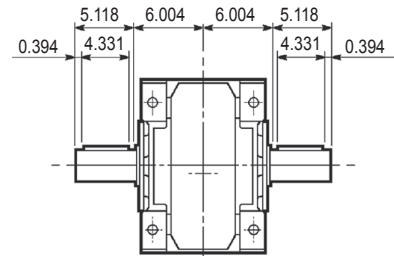
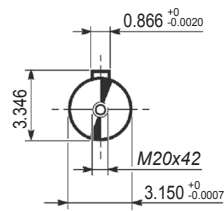
## A 70...NUR

**OUTPUT**  
(Inch Series)



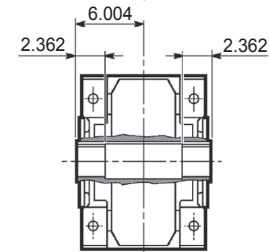
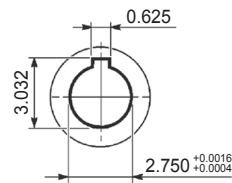
## A 70...UD

**OUTPUT**

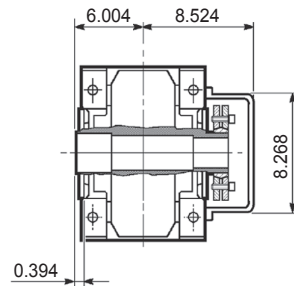
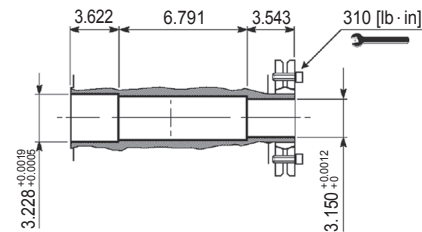


## A 70...NUH

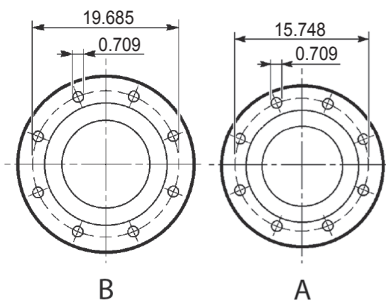
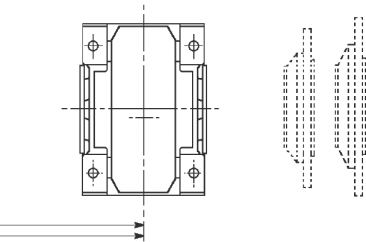
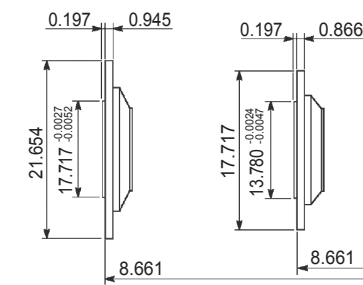
**OUTPUT**  
(Inch Series)

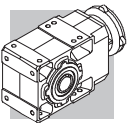


## A 70...US

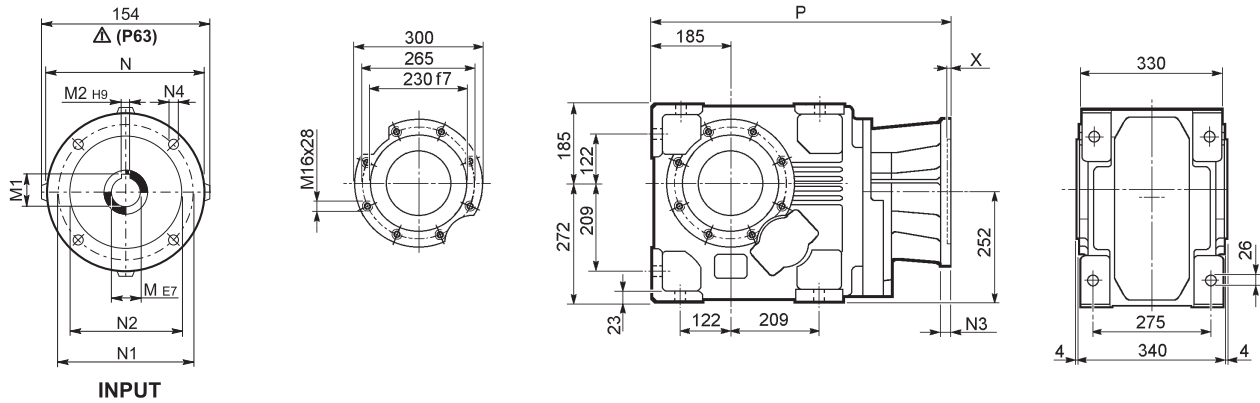


## A 70...F...








## A 80...P(IEC)

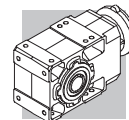


Dimensões em mm

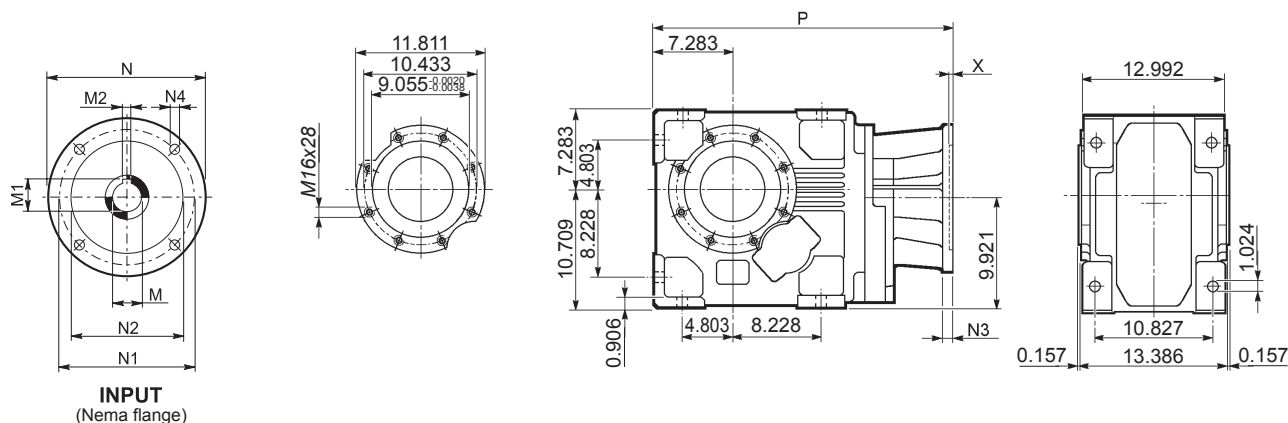
		M	M1	M2	N	N1	N2	N3	N4	X	P	
A 80 3	P80	19	21.8	6	200	165	130	—	M10x12	4	602	243
A 80 3	P90	24	27.3	8	200	165	130	—	M10x12	4	602	243
A 80 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	612	245
A 80 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	612	245
A 80 3	P132	38	41.3	10	300	265	230	16	14	5	648.5	253
A 80 3	P160	42	45.3	12	350	300	250	23	18	6	704	268
A 80 3	P180	48	51.8	14	350	300	250	23	18	6	704	268
A 80 3	P200	55	59.3	16	400	350	300	—	M16x25	7	729	279
A 80 3	P225	60	64.4	18	450	400	350	25	18	6	774.5	298
A 80 4	P63	11	12.8	4	140	115	95	—	M8x19	4	645.5	248
A 80 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	645.5	248
A 80 4	P80	19	21.8	6	200	165	130	—	M10x12	4	665	249
A 80 4	P90	24	27.3	8	200	165	130	—	M10x12	4	665	249
A 80 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	675	250
A 80 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	675	250
A 80 4	P132	38	41.3	10	300	265	230	16	M12x16	5	711.5	259

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA








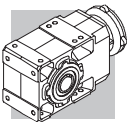
## A 80...N(NEMA Input)



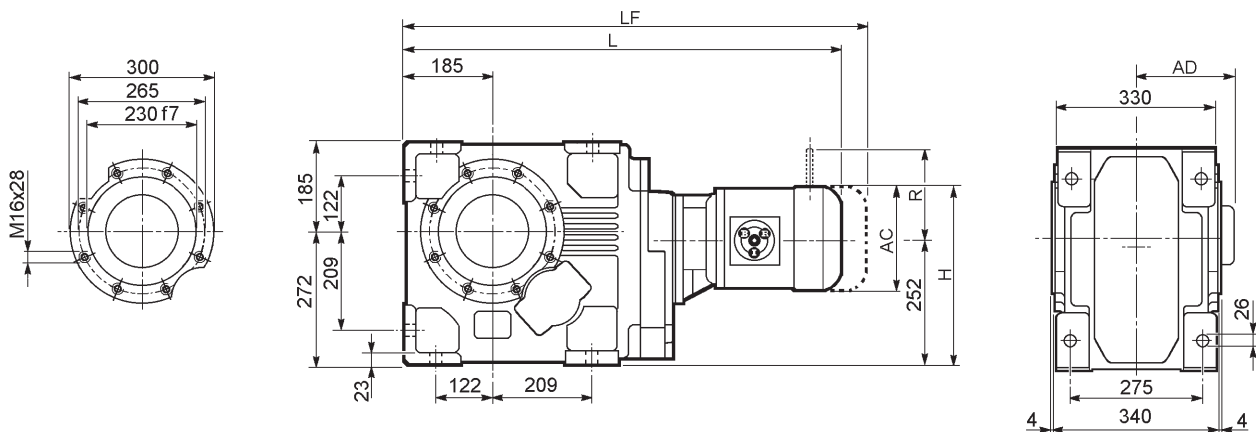
Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	
A 80 3	N180TC	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.630	0.551	0.217	24.469	540
A 80 3	N210TC	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.531	0.531	0.217	25.709	558
A 80 3	N250TC	1.625 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.796	0.375 <sup>+0.0014</sup> / <sub>+0</sub>	13.780	7.250	8.500	—	0.551	0.217	28.701	621
A 80 3	N280TC	1.875 <sup>+0.0030</sup> / <sub>+0.0020</sub>	2.102	0.500 <sup>+0.0017</sup> / <sub>+0</sub>	13.740	10.500	9.000	—	0.551	0.217	28.898	624
A 80 3	N320TC	2.125 <sup>+0.0035</sup> / <sub>+0.0024</sub>	2.350	0.500 <sup>+0.0017</sup> / <sub>+0</sub>	17.677	11.000	12.500	—	0.669	0.217	31.752	723
A 80 4	N56C	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	26.201	547
A 80 4	N140TC	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	26.201	549
A 80 4	N180TC	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.630	0.551	0.217	26.949	551
A 80 4	N210TC	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.531	0.531	0.217	28.189	571

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

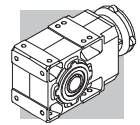


## A 80...M/ME

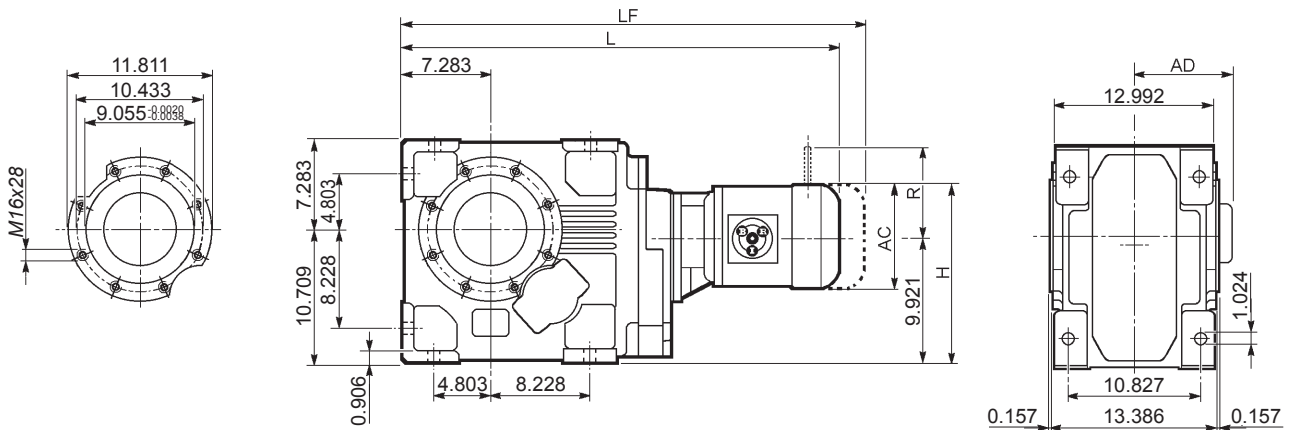


Dimensões em mm

									M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD		LF		R	AD	R	AD	
A 80 3	S3	ME3S	195	349.5	809.5	142	257.5	—	—	—	—	—	—	
A 80 3	S3	ME3L	195	349.5	841.5	142	264	—	—	—	—	—	—	
A 80 3	S4	ME4	258	381	949.5	193	298	—	—	—	—	—	—	
A 80 3	S4	ME4LB	258	381	984.5	193	306	—	—	—	—	—	—	
A 80 3	S5	ME5S	310	407	1036	245	326	—	—	—	—	—	—	
A 80 3	S5	ME5L	310	407	1080	245	342	—	—	—	—	—	—	
A 80 4	S1	M1	138	321	800.5	108	246	861.5	249	103	135	124	108	
A 80 4	S2	M2S	156	330	829.5	119	250	899.5	254	129	146	134	119	
A 80 4	S2	ME2S	156	330	829.5	119	250	—	—	—	—	—	—	
A 80 4	S3	ME3S	195	349.5	872.5	142	256.5	—	—	—	—	—	—	
A 80 4	S3	ME3L	195	349.5	904.5	142	262	—	—	—	—	—	—	
A 80 4	S4	ME4	258	381	1012.5	193	296	—	—	—	—	—	—	
A 80 4	S4	ME4LB	258	381	1047.5	193	304	—	—	—	—	—	—	

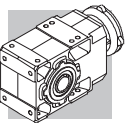


## A 80...M/ME

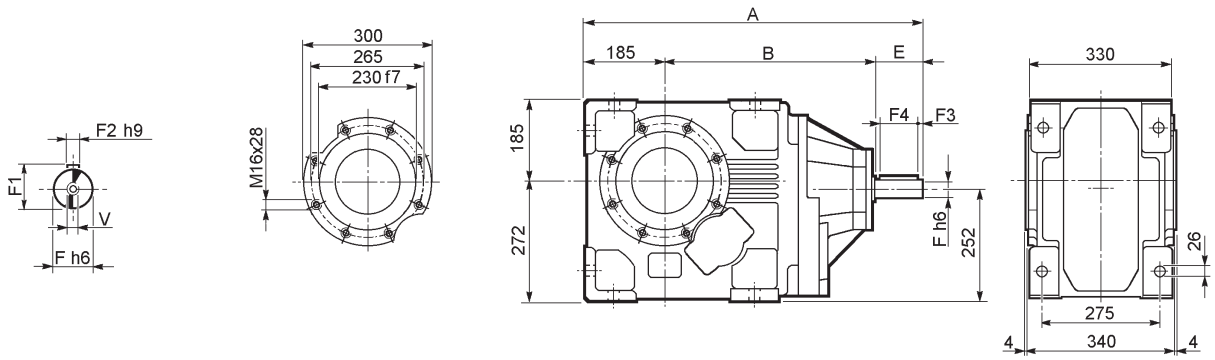


Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]



			AC	H	L	AD	lbs	M...FD		M...FD		M...FA	
								LF	lbs	R	AD	R	AD
<b>A 80 3</b>	<b>S3</b>	<b>ME3S</b>	7.677	13.760	31.870	5.591	568	—	—	—	—	—	—
<b>A 80 3</b>	<b>S3</b>	<b>ME3L</b>	7.677	13.760	33.130	5.591	582	—	—	—	—	—	—
<b>A 80 3</b>	<b>S4</b>	<b>ME4</b>	10.157	15.000	37.382	7.598	657	—	—	—	—	—	—
<b>A 80 3</b>	<b>S4</b>	<b>ME4LB</b>	10.157	15.000	38.760	7.598	675	—	—	—	—	—	—
<b>A 80 3</b>	<b>S5</b>	<b>ME5S</b>	12.205	16.024	40.787	9.646	719	—	—	—	—	—	—
<b>A 80 3</b>	<b>S5</b>	<b>ME5L</b>	12.205	16.024	42.520	9.646	754	—	—	—	—	—	—
<b>A 80 4</b>	<b>S1</b>	<b>M1</b>	5.433	12.638	31.516	4.252	542	33.917	549	4.055	5.315	4.882	4.252
<b>A 80 4</b>	<b>S2</b>	<b>M2S</b>	6.142	12.992	32.657	4.685	551	35.413	560	5.079	5.748	5.276	4.685
<b>A 80 4</b>	<b>S2</b>	<b>ME2S</b>	6.142	12.992	32.657	4.685	551	—	—	—	—	—	—
<b>A 80 4</b>	<b>S3</b>	<b>ME3S</b>	7.677	13.760	34.350	5.591	565	—	—	—	—	—	—
<b>A 80 4</b>	<b>S3</b>	<b>ME3L</b>	7.677	13.760	35.610	5.591	578	—	—	—	—	—	—
<b>A 80 4</b>	<b>S4</b>	<b>ME4</b>	10.157	15.000	39.862	7.598	653	—	—	—	—	—	—
<b>A 80 4</b>	<b>S4</b>	<b>ME4LB</b>	10.157	15.000	41.240	7.598	670	—	—	—	—	—	—



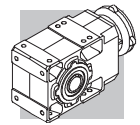
## A 80...HS



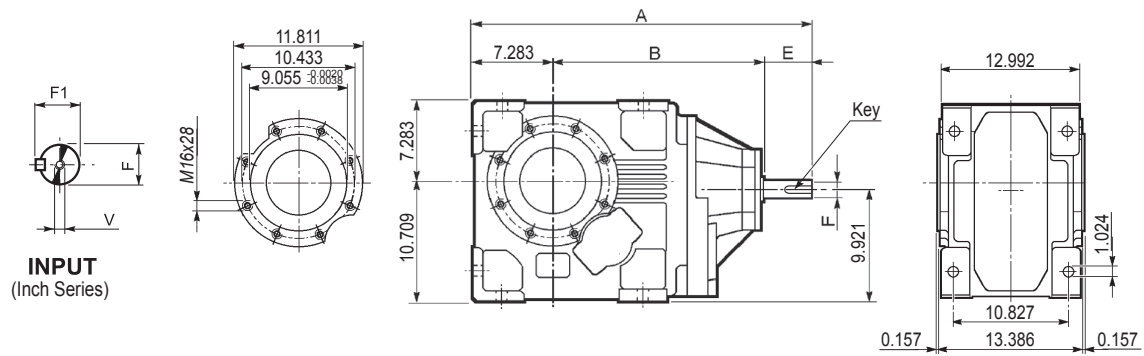
Dimensões em mm

		A	B	E	F	F1	F2	F3	F4	V	Kg
											
<b>A 80 3</b>	<b>HS</b>	786.5	491.5	110	42	45	12	10	90	M12x28	265
<b>A 80 4</b>		735	500	50	24	27	8	2.5	45	M8x19	250




Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS



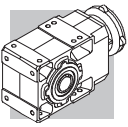
## A 80...NHS



Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

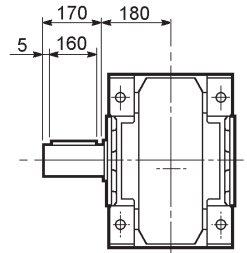
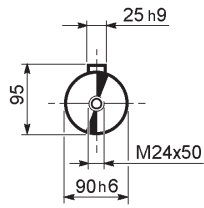
		A	B	E	F	F1	V	Key	
<b>A 80 3</b>	<b>NHS</b>	30.884	19.350	4.25	1.625 <sup>+0</sup> <sub>-0.0006</sub>	1.791	5/8 - 11 UNC	3/8 x 3/8 x 4	584
<b>A 80 4</b>	<b>NHS</b>	28.937	19.685	1.969	1.000 <sup>+0</sup> <sub>-0.0005</sub>	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	551

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

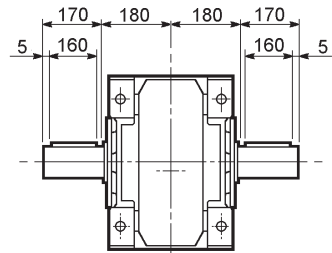
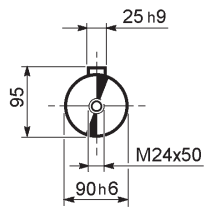


# A 80

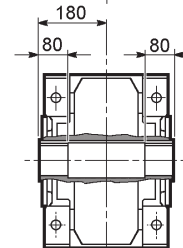
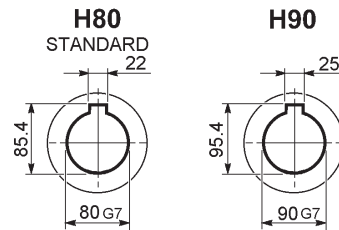
## A 80...UR



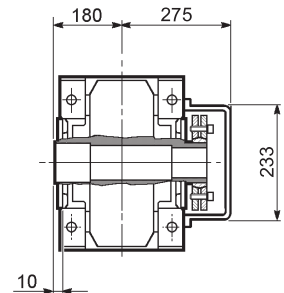
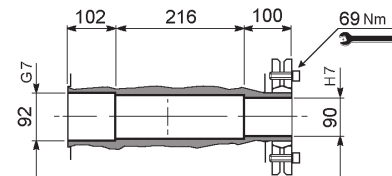
## A 80...UD



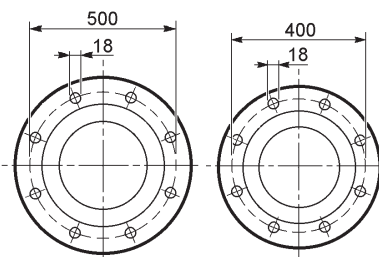
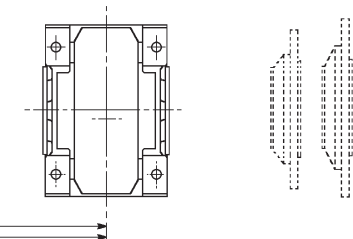
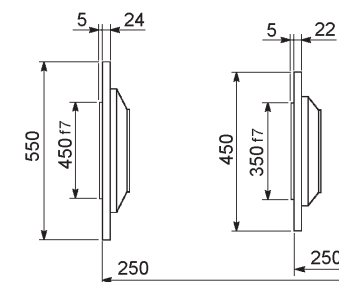
## A 80...UH



## A 80...US

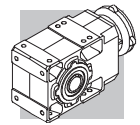


## A 80...F...



**B**

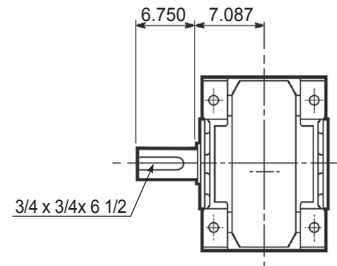
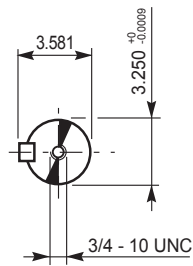
**A**



# A 80

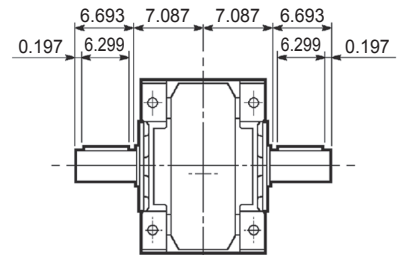
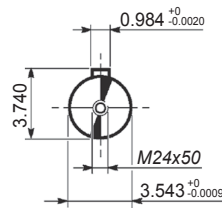
## A 80...NUR

**OUTPUT**  
(Inch Series)



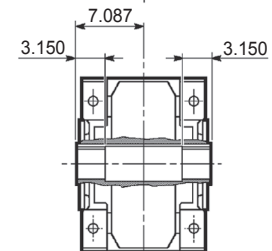
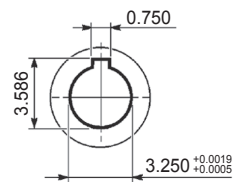
## A 80...UD

**OUTPUT**

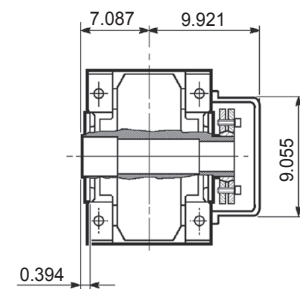
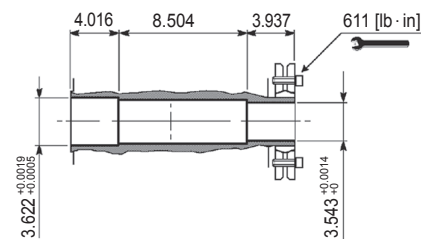


## A 80...NUH

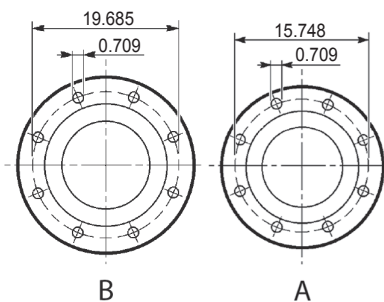
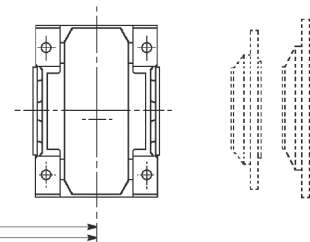
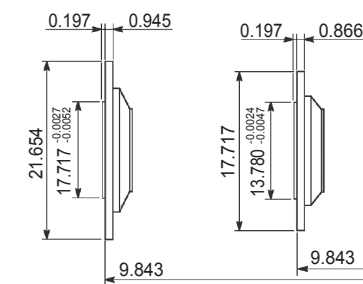
**OUTPUT**  
(Inch Series)



## A 80...US

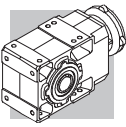


## A 80...F...

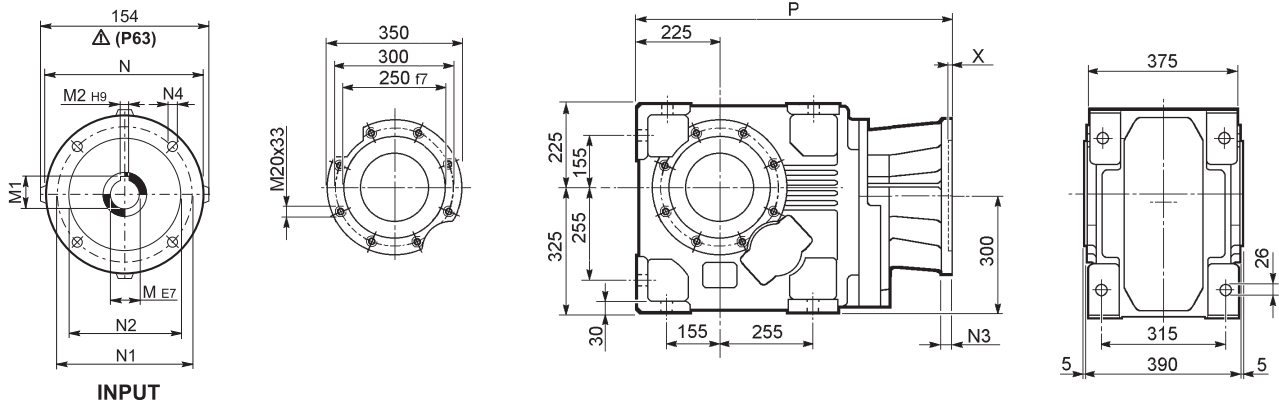


B




A



## A 90...P (IEC)

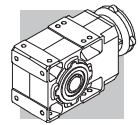


Dimensões em mm

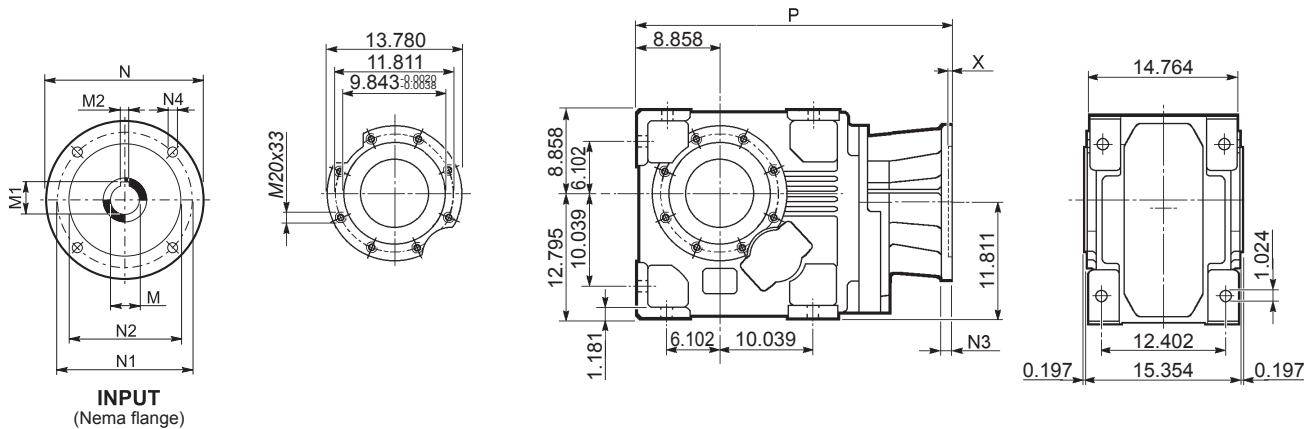
		M	M1	M2	N	N1	N2	N3	N4	X	P	
												
A 90 3	P80	19	21.8	6	200	165	130	—	M10x12	4	723	400
A 90 3	P90	24	27.3	8	200	165	130	—	M10x12	4	723	400
A 90 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	733	401
A 90 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	733	401
A 90 3	P132	38	41.3	10	300	265	230	16	14	5	769.5	409
A 90 3	P160	42	45.3	12	350	300	250	23	18	6	825	428
A 90 3	P180	48	51.8	14	350	300	250	23	18	6	825	429
A 90 3	P200	55	59.3	16	400	350	300	—	M16x25	7	850	436
A 90 3	P225	60	64.4	18	450	400	350	30	18	6	895.5	472
A 90 3	P250	65	69.4	18	550	500	450	30	18	6	925.5	475
A 90 4	P63	11	12.8	4	140	115	95	—	M8x19	4	786.5	411
A 90 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	786.5	412
A 90 4	P80	19	21.8	6	200	165	130	—	M10x12	4	806	413
A 90 4	P90	24	27.3	8	200	165	130	—	M10x12	4	806	413
A 90 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	816	415
A 90 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	816	415
A 90 4	P132	38	41.3	10	300	265	230	16	14	5	852.5	423
A 90 4	P160	42	45.3	12	350	300	250	23	18	5.5	903	434
A 90 4	P180	48	51.8	14	350	300	250	23	18	5.5	903	434

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA





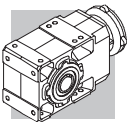
## A 90...N(NEMA Input)



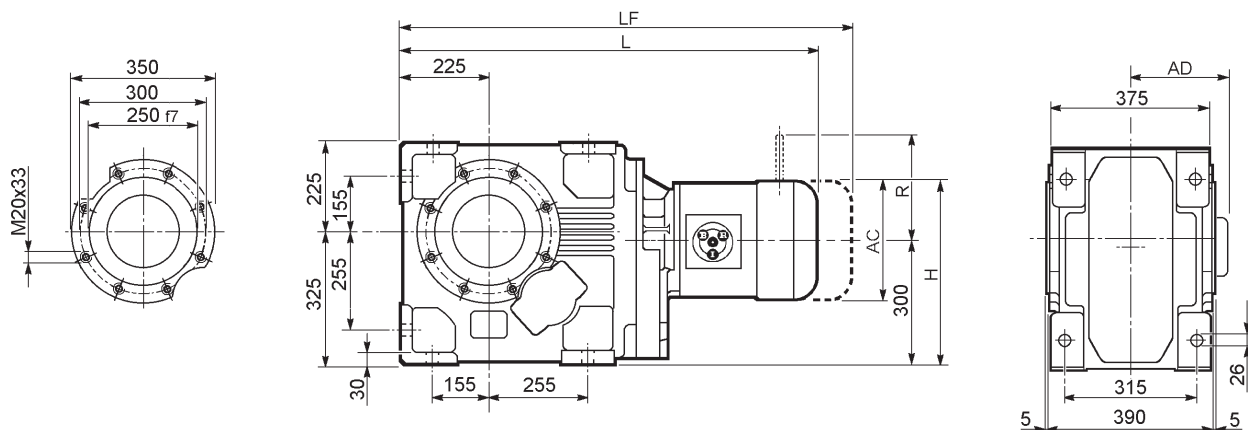
Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	
A 90 3	N180TC	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.630	0.551	0.217	29.232	884
A 90 3	N210TC	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.531	0.531	0.217	30.472	902
A 90 3	N250TC	1.625 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.796	0.375 <sup>+0.0014</sup> / <sub>+0</sub>	13.780	7.250	8.500	—	0.551	0.217	33.465	973
A 90 3	N280TC	1.875 <sup>+0.0030</sup> / <sub>+0.0020</sub>	2.102	0.500 <sup>+0.0017</sup> / <sub>+0</sub>	13.740	10.500	9.000	—	0.551	0.217	33.661	977
A 90 3	N320TC	2.125 <sup>+0.0035</sup> / <sub>+0.0024</sub>	2.350	0.500 <sup>+0.0017</sup> / <sub>+0</sub>	17.677	11.000	12.500	—	0.669	0.217	36.516	1107
A 90 4	N56C	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	31.752	908
A 90 4	N140TC	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0.0012</sup> / <sub>+0</sub>	6.496	5.875	4.500	0.472	0.394	0.197	31.752	910
A 90 4	N180TC	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.630	0.551	0.217	32.500	915
A 90 4	N210TC	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+0.0014</sup> / <sub>+0</sub>	8.996	7.250	8.500	0.531	0.531	0.217	33.740	933
A 90 4	N250TC	1.625 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.796	0.375 <sup>+0.0014</sup> / <sub>+0</sub>	13.780	7.250	8.500	—	0.551	0.217	36.535	987
A 90 4	N280TC	1.875 <sup>+0.0030</sup> / <sub>+0.0020</sub>	2.102	0.500 <sup>+0.0017</sup> / <sub>+0</sub>	13.740	10.500	9.000	—	0.551	0.217	36.732	990

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

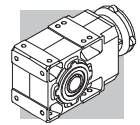


## A 90...M/ME

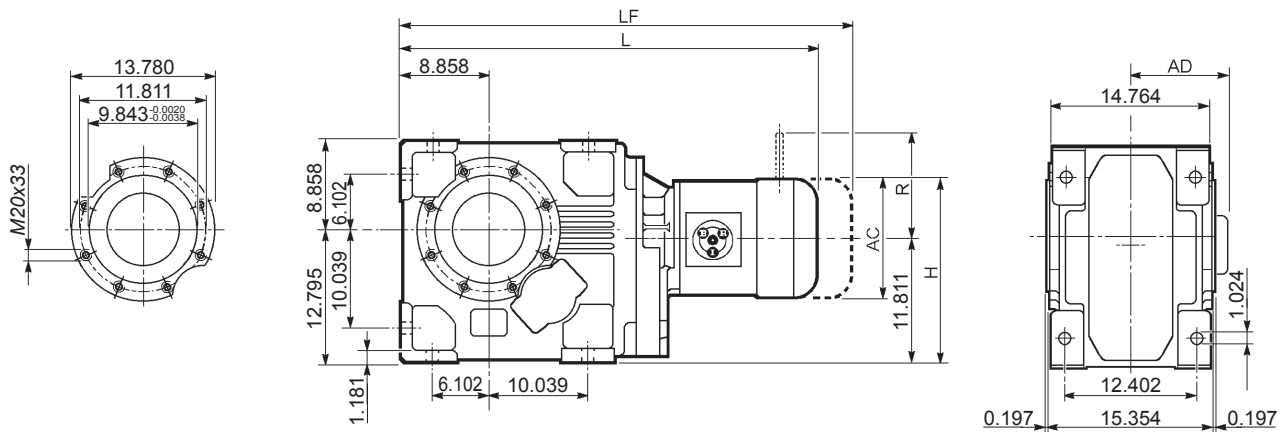


Dimensões em mm

			AC	H	L	AD	Kg	M...FD M...FA		M...FD		M...FA	
								LF	Kg	R	AD	R	AD
A 90 3	S3	ME3S	195	397.5	930.5	142	414.5	—	—	—	—	—	—
A 90 3	S3	ME3L	195	397.5	962.5	142	420	—	—	—	—	—	—
A 90 3	S4	ME4	258	429	1070.5	193	454	—	—	—	—	—	—
A 90 3	S4	ME4LB	258	429	1105.5	193	462	—	—	—	—	—	—
A 90 3	S5	ME5S	310	455	1157	245	482	—	—	—	—	—	—
A 90 3	S5	ME5L	310	455	1201	245	498	—	—	—	—	—	—
A 90 4	S1	M1	138	369	941.5	108	412	1002.5	249	103	135	124	108
A 90 4	S2	M2S	156	378	970.5	119	422	1040.5	426	129	146	134	119
A 90 4	S2	ME2S	156	378	970.5	119	422	—	—	—	—	—	—
A 90 4	S3	ME3S	195	397.5	1013.5	142	428.5	—	—	—	—	—	—
A 90 4	S3	ME3L	195	397.5	1045.5	142	434	—	—	—	—	—	—
A 90 4	S4	ME4	258	429	1153.5	193	468	—	—	—	—	—	—
A 90 4	S4	ME4LB	258	429	1188.5	193	476	—	—	—	—	—	—

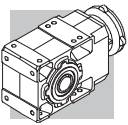


## A 90...M/ME

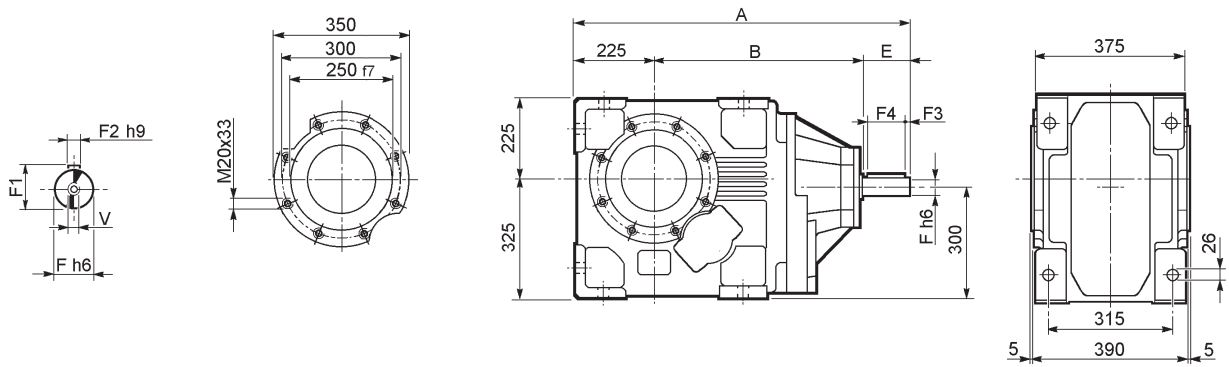


Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]



			AC	H	L	AD	lbs	M...FD M...FA		M...FD		M...FA	
								LF	lbs	R	AD	R	AD
<b>A 90 3</b>	<b>S3</b>	<b>ME3S</b>	7.677	15.650	36.634	5.591	914	—	—	—	—	—	—
<b>A 90 3</b>	<b>S3</b>	<b>ME3L</b>	7.677	15.650	37.894	5.591	926	—	—	—	—	—	—
<b>A 90 3</b>	<b>S4</b>	<b>ME4</b>	10.157	16.890	42.146	7.598	1001	—	—	—	—	—	—
<b>A 90 3</b>	<b>S4</b>	<b>ME4LB</b>	10.157	16.890	43.524	7.598	1019	—	—	—	—	—	—
<b>A 90 3</b>	<b>S5</b>	<b>ME5S</b>	12.205	17.913	45.551	9.646	1063	—	—	—	—	—	—
<b>A 90 3</b>	<b>S5</b>	<b>ME5L</b>	12.205	17.913	47.283	9.646	1098	—	—	—	—	—	—
<b>A 90 4</b>	<b>S1</b>	<b>M1</b>	5.433	14.528	37.067	4.252	908	39.469	549	4.055	5.315	4.882	4.252
<b>A 90 4</b>	<b>S2</b>	<b>M2S</b>	6.142	14.882	38.209	4.685	930	40.965	939	5.079	5.748	5.276	4.685
<b>A 90 4</b>	<b>S2</b>	<b>ME2S</b>	6.142	14.882	38.209	4.685	930	—	—	—	—	—	—
<b>A 90 4</b>	<b>S3</b>	<b>ME3S</b>	7.677	15.650	39.902	5.591	945	—	—	—	—	—	—
<b>A 90 4</b>	<b>S3</b>	<b>ME3L</b>	7.677	15.650	41.161	5.591	957	—	—	—	—	—	—
<b>A 90 4</b>	<b>S4</b>	<b>ME4</b>	10.157	16.890	45.413	7.598	1032	—	—	—	—	—	—
<b>A 90 4</b>	<b>S4</b>	<b>ME4LB</b>	10.157	16.890	46.791	7.598	1049	—	—	—	—	—	—



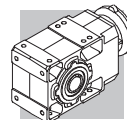
## A 90...HS



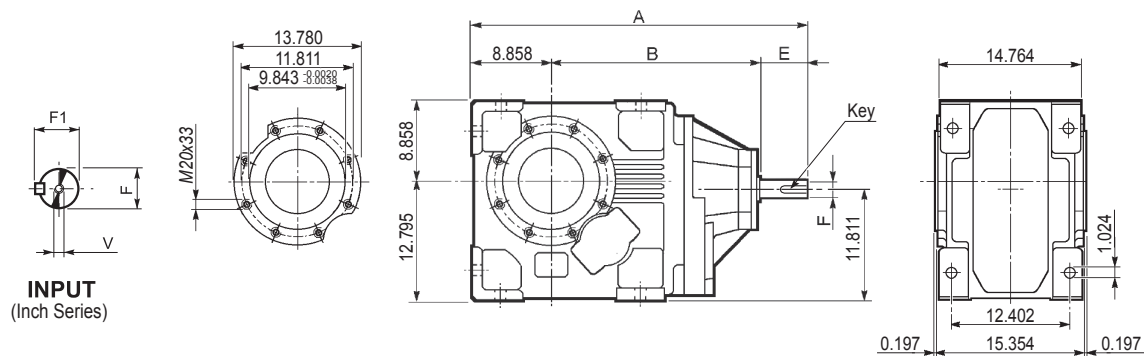
Dimensões em mm

		A	B	E	F	F1	F2	F3	F4	V	kg	
	 HS	<b>A 90 3</b>	1009	644	140	60	64	18	10	120	M16x36	465
		<b>A 90 4</b>	875.5	600.5	50	24	27	8	2.5	45	M8x19	415

Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS






## A 90...NHS

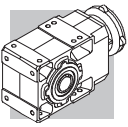


**INPUT**  
(Inch Series)

Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

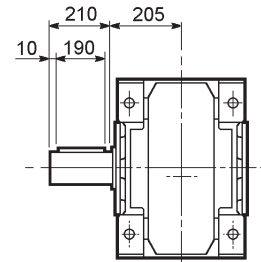
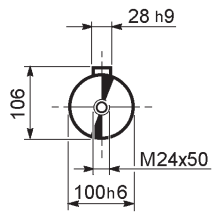
		A	B	E	F	F1	V	Key	
<b>A 90 3</b>	<b>NHS</b>	39.213	25.354	5	2.125 <sup>+0</sup> <sub>-0.0006</sub>	2.345	3/4 - 10 UNC	1/2 x 1/2 x 4 3/4	1025
<b>A 90 4</b>	<b>NHS</b>	34.469	23.642	1.969	1.000 <sup>+0</sup> <sub>-0.0005</sub>	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	915

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

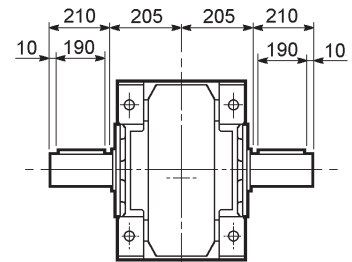
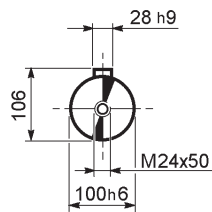


# A 90

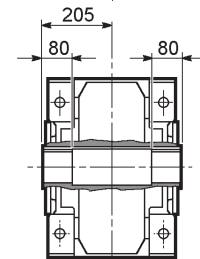
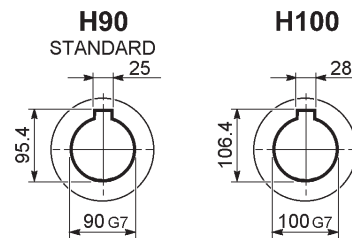
## A 90...UR



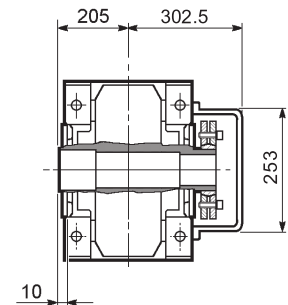
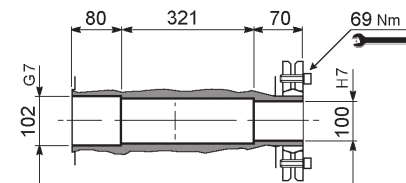
## A 90...UD



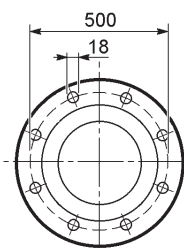
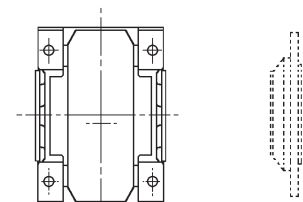
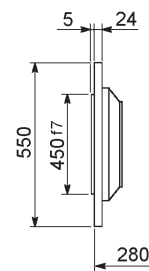
## A 90...UH



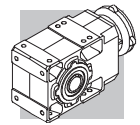
## A 90...US



## A 90...F...



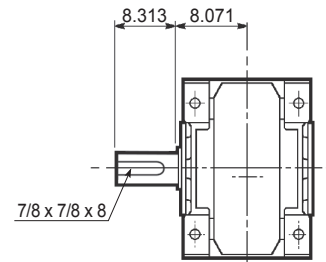
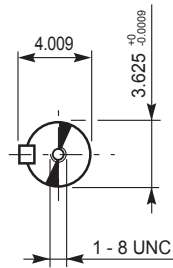
**A**



# A 90

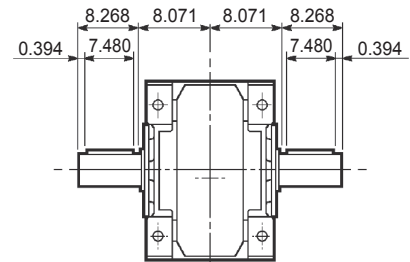
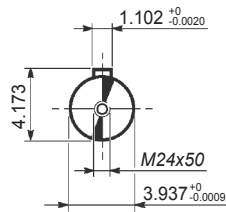
## A 90...NUR

OUTPUT  
(Inch Series)



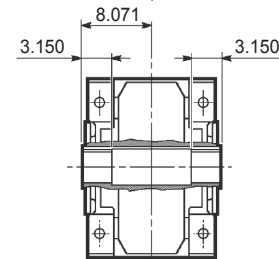
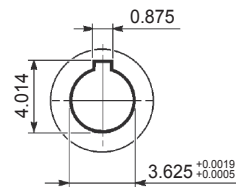
## A 90...UD

OUTPUT

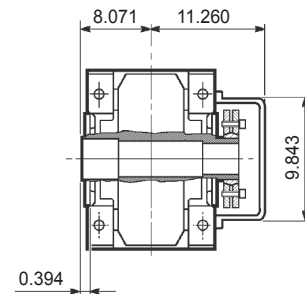
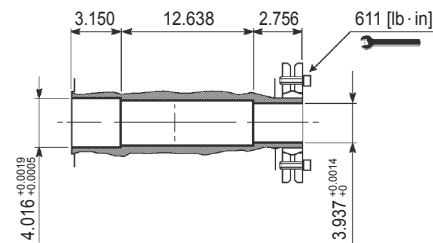


## A 90...NUH

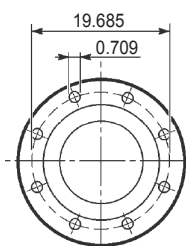
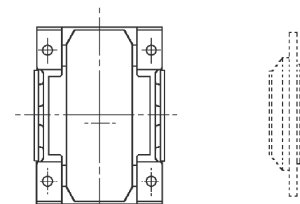
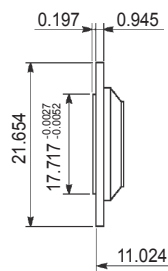
OUTPUT  
(Inch Series)



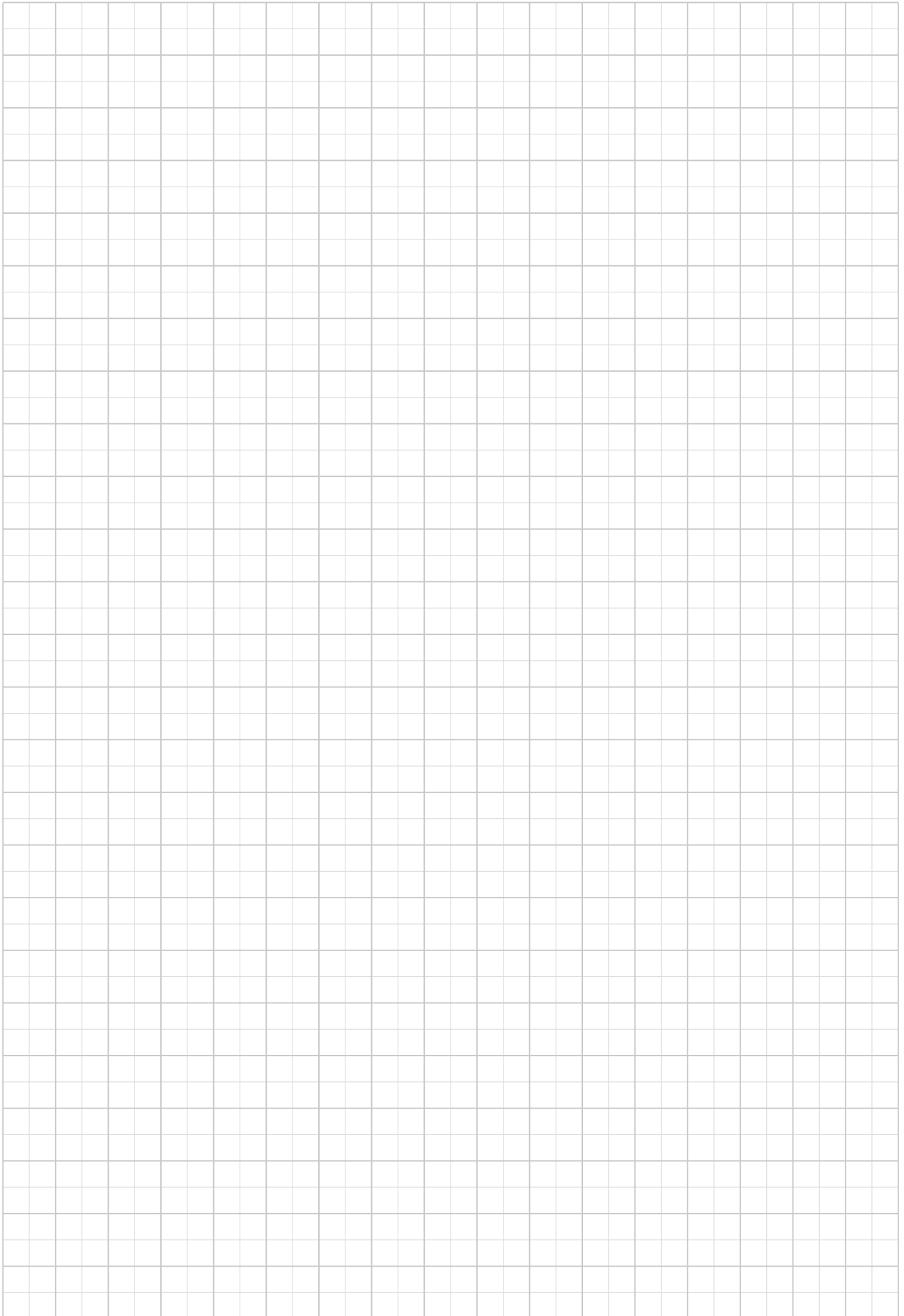
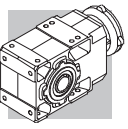
## A 90...US



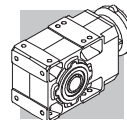
## A 90...F...



A

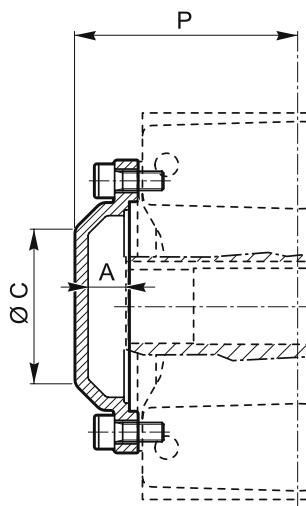




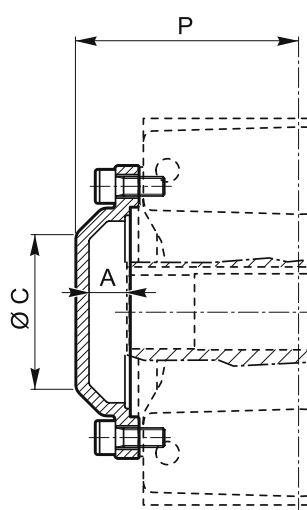


## 45 ACESSÓRIOS

### 45.1 Tampa de proteção

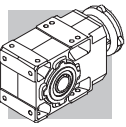


Dimensões em mm



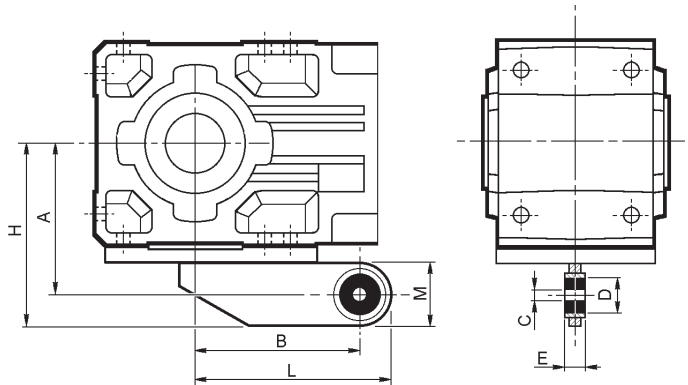
Dimensões em polegadas,  
exceto quando mostrados em *itálico* [mm]

	A	Ø C	P
<b>A 05</b>	0.689	1.417	2.894
<b>A 10</b>	0.807	2.362	3.327
<b>A 20</b>	0.787	2.953	3.701
<b>A 30</b>	0.787	2.953	4.094
<b>A 35</b>	0.768	3.150	4.488
<b>A 41</b>	0.827	4.331	4.724
<b>A 50</b>	1.024	3.937	5.846
<b>A 55</b>	1.063	3.937	5.866
<b>A 60</b>	0.984	3.937	6.220
<b>A 70</b>	1.319	4.724	7.618
<b>A 80</b>	1.496	5.512	8.976
<b>A 90</b>	1.693	5.984	10.157

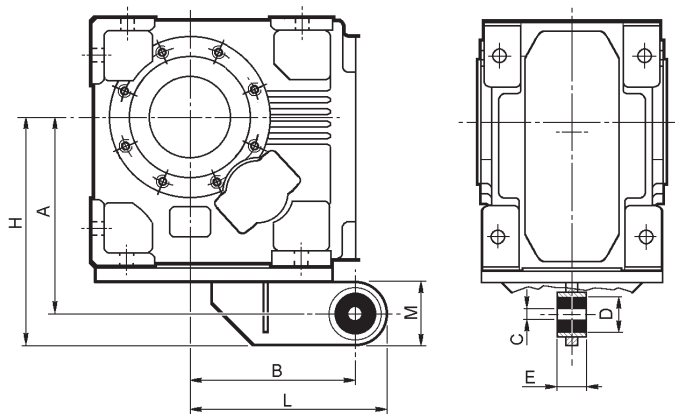


## 45.2 Braço de torque

O braço de torque vem completo com parafusos de fixação.

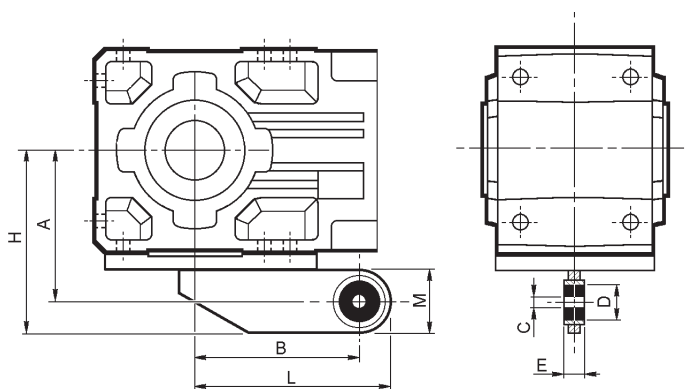
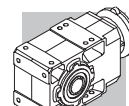


	A	Ø C	Dimensões em mm
A 05	17.5	36	73.5
A 10	20.5	60	84.5
A 20	20	75	94
A 30	20	75	104
A 35	19.5	80	114
A 41	21	110	120
A 50	26	100	148.5
A 55	27	100	149
A 60	25	100	158
A 70	33.5	120	193.5
A 80	38	140	228
A 90	43	152	258



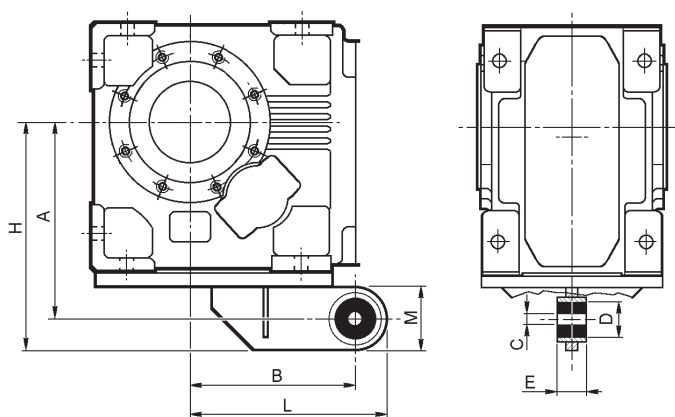
Dimensões em mm

	A	B	C	D	E	H	L	M
A 05	90.5	80	10	30	20	115.5	105	50
A 10	108	118	10	30	20	138	148	60
A 20	118	137	10	30	20	148	167	60



Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

	A	B	C	D	E	H	L	M
<b>A 05</b>	3.563	3.150	0.394	1.181	0.787	4.547	4.134	1.969
<b>A 10</b>	4.252	4.646	0.394	1.181	0.787	5.433	5.827	2.362
<b>A 20</b>	4.646	5.394	0.394	1.181	0.787	5.827	6.575	2.362
<b>A 30</b>	5.315	5.906	0.787	1.575	0.984	6.693	7.283	2.756
<b>A 35</b>	5.709	6.496	0.787	1.575	0.984	7.087	7.874	2.756
<b>A 41</b>	6.181	7.874	0.787	1.575	0.984	7.559	9.252	2.756
<b>A 50</b>	7.874	9.843	1.260	2.205	1.575	9.646	11.614	3.543
<b>A 55</b>	7.874	9.843	1.260	2.205	1.575	9.646	11.614	3.543
<b>A 60</b>	8.858	11.811	1.260	2.205	1.575	10.630	13.583	3.543



Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

	A	B	C	D	E	H	L	M
<b>A 70</b>	11.378	9.843	1.260	2.205	1.575	13.150	11.614	3.543
<b>A 80</b>	14.055	11.811	1.654	3.071	2.362	16.614	14.370	5.118
<b>A 90</b>	16.142	13.780	1.654	3.071	2.362	18.701	16.339	5.118

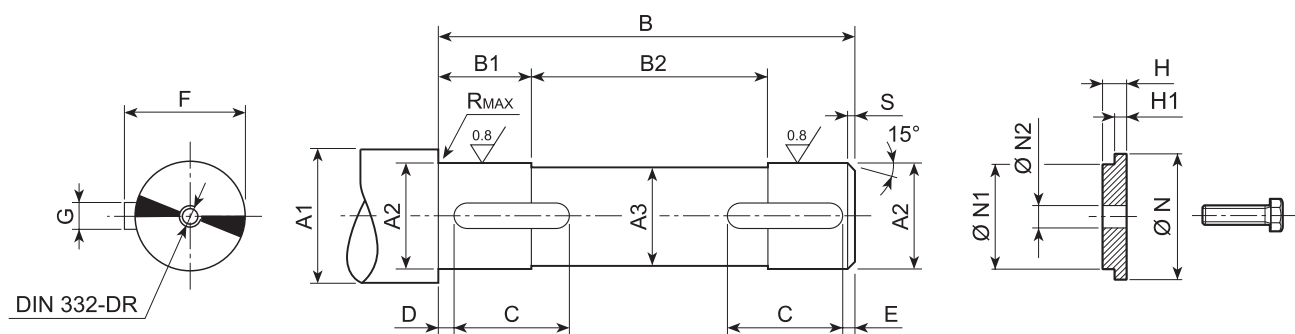


## 46 EIXO DO CLIENTE



Fabricar o eixo motriz a ser acoplado no eixo de saída do redutor com aço de boa qualidade, respeitando as dimensões informadas na tabela.

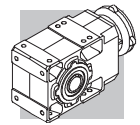
Um dispositivo, como o ilustrado na figura abaixo, também deverá ser instalado para fixar o eixo axialmente. Tomar o cuidado de verificar e dimensionar os diversos componentes para adequá-los às necessidades da aplicação.

**UH\_**

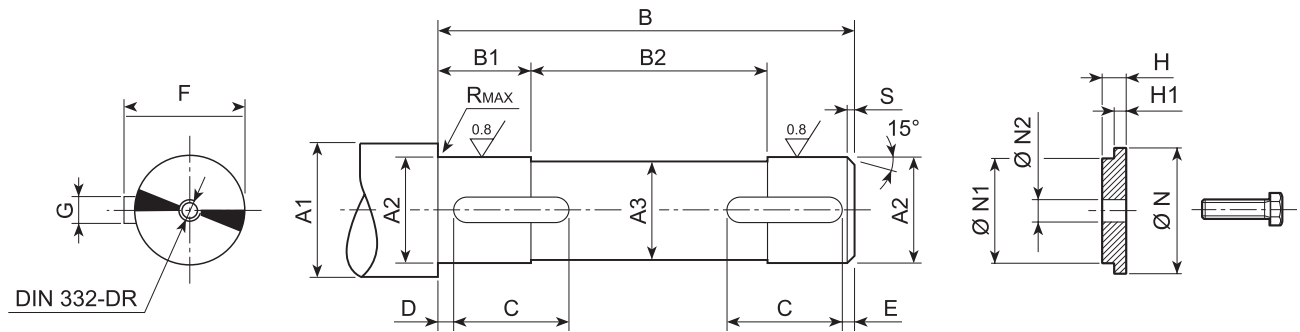


Dimensões em mm

	A1	A2	A3	B	B1	B2	C	D	E	F	G	R	S		N	N1	N2	H	H1	
<b>A05 UH25</b>	≥ 30	25 h7	24	102	21	62	20	2	2	28	8 h9	0.5	1.5	8x7x20 A	35	25 d9	9	7	5.5	M8x25
<b>A10 UH30</b>	≥ 35	30 h7	29	118	16	87	20	2	2	33	8 h9	0.5	1.5	8x7x20 A	35	30 d9	11	8.5	7	M10x30
<b>A10 UH25</b>	≥ 30	25 h7	24	118	16	87	20	2	2	28	8 h9	0.5	1.5	8x7x20 A	30+35	25 d9	9	7	5.5	M8x25
<b>A20 UH35</b>	≥ 42	35 h7	34	138	20	98	20	2	2	38	10 h9	0.5	1.5	10x8x20 A	42	35 d9	11	8.5	7	M10x30
<b>A20 UH30</b>	≥ 35	30 h7	29	138	20	98	25	2	2	33	8 h9	0.5	1.5	8x7x25 A	35+42	30 d9	11	8.5	7	M10x30
<b>A30 UH40</b>	≥ 47	40 h7	39	158	23	112	30	2	2	43	12 h9	0.5	1.5	12x8x30 A	47	40 d9	14	8.5	7	M12x35
<b>A30 UH35</b>	≥ 42	35 h7	34	158	23	112	30	2	2	38	10 h9	0.5	1.5	10x8x30 A	42+47	35 d9	11	8.5	7	M10x30
<b>A35 UH40</b>	≥ 47	40 h7	39	175	33	109	40	2	2	43	12 h9	1	1.5	12x8x40 A	47	40 d9	14	8.5	7	M12x35
<b>A35 UH35</b>	≥ 42	35 h7	34	175	33	109	40	2	2	38	10 h9	1	1.5	10x8x40 A	42+47	35 d9	11	8.5	7	M10x30
<b>A41 UH45</b>	≥ 52	45 h7	44	184	28	128	45	2.5	2.5	48.5	14 h9	1	2	14x9x45 A	52	45 d9	14	8.5	7	M12x35
<b>A41 UH40</b>	≥ 47	40 h7	39	184	28	128	50	2.5	2.5	43	12 h9	1	2	12x8x50 A	47+52	40 d9	14	8.5	7	M12x35
<b>A50 UH55</b>	≥ 63	55 h7	54	226	37.5	151	55	2.5	2.5	59	16 h9	1	2	16x10x55 A	63	55 d9	22	10	8	M20x50
<b>A50 UH50</b>	≥ 57	50 h7	49	226	37.5	151	65	2.5	2.5	53.5	14 h9	1	2	14x9x65 A	57+63	50 d9	18	10	8	M16x45
<b>A55 UH60</b>	≥ 70	60 h7	59	226	37.5	151	65	2.5	2.5	64	18 h9	2	2	18x11x65 A	70	60 d9	22	10	8	M20x50
<b>A55 UH50</b>	≥ 60	50 h7	49	226	37.5	151	75	2.5	2.5	53.5	14 h9	2	2	14x9x75 A	60+70	50 d9	18	10	8	M16x45
<b>A60 UH70</b>	≥ 78	70 h7	69	248	48	152	70	2.5	2.5	74.5	20 h9	2.5	2	20x12x70 A	78	70 d9	22	10	8.5	M20x50
<b>A60 UH60</b>	≥ 68	60 h7	59	248	48	152	80	2.5	2.5	64	18 h9	2.5	2	18x11x80 A	68+78	60 d9	22	10	8.5	M20x50
<b>A70 UH80</b>	≥ 89	80 h7	79	303	58	187	90	3	3	85	22 h9	2.5	2.5	22x14x90 A	89	80 d9	22	10	8.5	M20x50
<b>A70 UH70</b>	≥ 78	70 h7	69	303	58	187	110	3	3	74.5	20 h9	2.5	2.5	20x12x110 A	78+89	70 d9	22	10	8.5	M20x50
<b>A80 UH90</b>	≥ 99	90 h7	89	358	78	202	120	3	3	95	25 h9	2.5	2.5	25x14x120 A	99	90 d9	26	22	20.5	M24x70
<b>A80 UH80</b>	≥ 89	80 h7	79	358	78	202	130	3	3	85	22 h9	2.5	2.5	22x14x130 A	89+99	80 d9	22	10	8.5	M20x50
<b>A90 UH100</b>	≥ 111	100 h7	99	408	78	252	160	3	3	106	28 h9	2.5	2.5	28x16x160 A	111	100 d9	26	22	20.5	M24x70
<b>A90 UH90</b>	≥ 99	90 h7	89	408	78	252	190	3	3	95	25 h9	2.5	2.5	25x14x190 A	99+111	90 d9	26	22	20.5	M24x70

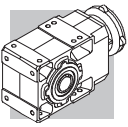


**NUH**

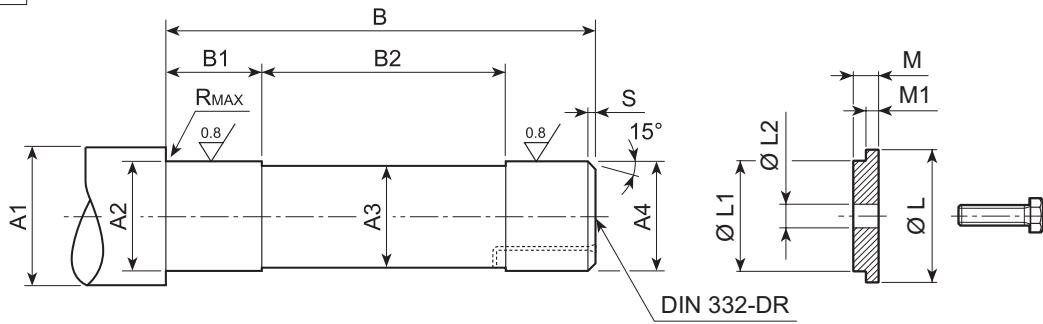


Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]


	A1	A2	A3	B	B1	B2	C	D	E	F	G	R	S	Key	N	N1	N2	H	H1	UNI 5739
<b>A05</b>	≥ 1.20	0.961 <sup>+0</sup> <sub>-0.0008</sub>	4.016	0.827	2.441	0.875	0.079	0.079	1.109	0.250	0.250 <sup>+0</sup> <sub>-0.0014</sub>	0.020	0.059	1/4 x 1/4 x 7/8	1.378	1.000 <sup>-0.0026</sup> <sub>-0.0046</sub>	0.354	0.276	0.217	M8x25
<b>A10</b>	≥ 1.20	0.961 <sup>+0</sup> <sub>-0.0008</sub>	4.646	0.630	3.425	0.875	0.079	0.079	1.109	0.250	0.250 <sup>+0</sup> <sub>-0.0014</sub>	0.020	0.059	1/4 x 1/4 x 7/8	1.201 <sup>±</sup> <sub>1.378</sub>	1.000 <sup>-0.0026</sup> <sub>-0.0046</sub>	0.354	0.276	0.217	M8x25
<b>A20</b>	≥ 1.46	1.211 <sup>+0</sup> <sub>-0.0010</sub>	5.433	0.787	3.858	1.000	0.079	0.079	1.362	0.250	0.250 <sup>+0</sup> <sub>-0.0014</sub>	0.020	0.059	1/4 x 1/4 x 1	1.457 <sup>±</sup> <sub>1.654</sub>	1.250 <sup>-0.0031</sup> <sub>-0.0056</sub>	0.433	0.335	0.276	M10x30
<b>A30</b>	≥ 1.65	1.336 <sup>+0</sup> <sub>-0.0010</sub>	6.220	0.906	4.409	1.250	0.079	0.079	1.513	0.313	0.313 <sup>+0</sup> <sub>-0.0014</sub>	0.020	0.059	5/16 x 5/16 x 1 1/4	1.654 <sup>±</sup> <sub>1.850</sub>	1.375 <sup>-0.0031</sup> <sub>-0.0056</sub>	0.433	0.335	0.276	M10x30
<b>A35</b>	≥ 1.77	1.461 <sup>+0</sup> <sub>-0.0010</sub>	6.890	1.299	4.291	2.000	0.079	0.079	1.664	0.375	0.375 <sup>+0</sup> <sub>-0.0014</sub>	0.039	0.059	3/8 x 3/8 x 2	1.772 <sup>±</sup> <sub>1.850</sub>	1.500 <sup>-0.0031</sup> <sub>-0.0056</sub>	0.433	0.335	0.276	M10x30
<b>A41</b>	≥ 1.91	1.586 <sup>+0</sup> <sub>-0.0010</sub>	7.244	1.102	5.039	2.000	0.098	0.098	1.791	0.375	0.375 <sup>+0</sup> <sub>-0.0014</sub>	0.039	0.079	3/8 x 3/8 x 2	1.909 <sup>±</sup> <sub>2.047</sub>	1.625 <sup>-0.0031</sup> <sub>-0.0056</sub>	0.551	0.335	0.276	M12x35
<b>A50</b>	≥ 2.28	1.961 <sup>+0</sup> <sub>-0.0012</sub>	8.898	1.476	5.945	2.500	0.098	0.098	2.218	0.500	0.500 <sup>+0</sup> <sub>-0.0017</sub>	0.039	0.079	1/2 x 1/2 x 2 1/2	2.283 <sup>±</sup> <sub>2.480</sub>	2.000 <sup>-0.0039</sup> <sub>-0.0069</sub>	0.709	0.394	0.315	M16x45
<b>A55</b>	≥ 2.56	2.148 <sup>+0</sup> <sub>-0.0012</sub>	8.898	1.476	5.945	2.500	0.098	0.098	2.409	0.500	0.500 <sup>+0</sup> <sub>-0.0017</sub>	0.079	0.079	1/2 x 1/2 x 2 1/2	2.559 <sup>±</sup> <sub>2.756</sub>	2.188 <sup>-0.0039</sup> <sub>-0.0069</sub>	0.709	0.394	0.315	M16x45
<b>A60</b>	≥ 2.95	2.586 <sup>+0</sup> <sub>-0.0012</sub>	9.764	1.890	5.984	3.000	0.098	0.098	2.900	0.625	0.625 <sup>+0</sup> <sub>-0.0017</sub>	0.098	0.079	5/8 x 5/8 x 3	2.953 <sup>±</sup> <sub>3.071</sub>	2.625 <sup>-0.0039</sup> <sub>-0.0069</sub>	0.866	0.394	0.335	M20x50
<b>A70</b>	≥ 3.07	2.711 <sup>+0</sup> <sub>-0.0012</sub>	11.929	2.283	7.362	3.000	0.118	0.118	3.027	0.625	0.625 <sup>+0</sup> <sub>-0.0017</sub>	0.098	0.098	5/8 x 5/8 x 3	3.071 <sup>±</sup> <sub>3.504</sub>	2.750 <sup>-0.0039</sup> <sub>-0.0069</sub>	0.866	0.394	0.335	M20x50
<b>A80</b>	≥ 3.60	3.211 <sup>+0</sup> <sub>-0.0014</sub>	14.094	3.071	7.953	4.156	0.118	0.118	3.581	0.750	0.750 <sup>+0</sup> <sub>-0.0020</sub>	0.098	0.098	3/4 x 3/4 x 4 5/32	3.602 <sup>±</sup> <sub>3.898</sub>	3.250 <sup>-0.0047</sup> <sub>-0.0081</sub>	0.866	0.394	0.335	M20x50
<b>A90</b>	≥ 3.98	3.586 <sup>+0</sup> <sub>-0.0014</sub>	16.063	3.071	9.921	5.500	0.118	0.118	4.009	0.875	0.875 <sup>+0</sup> <sub>-0.0010</sub>	0.098	0.098	7/8 x 7/8 x 5 1/2	3.976 <sup>±</sup> <sub>4.370</sub>	3.625 <sup>-0.0047</sup> <sub>-0.0081</sub>	1.024	0.866	0.807	M24x70



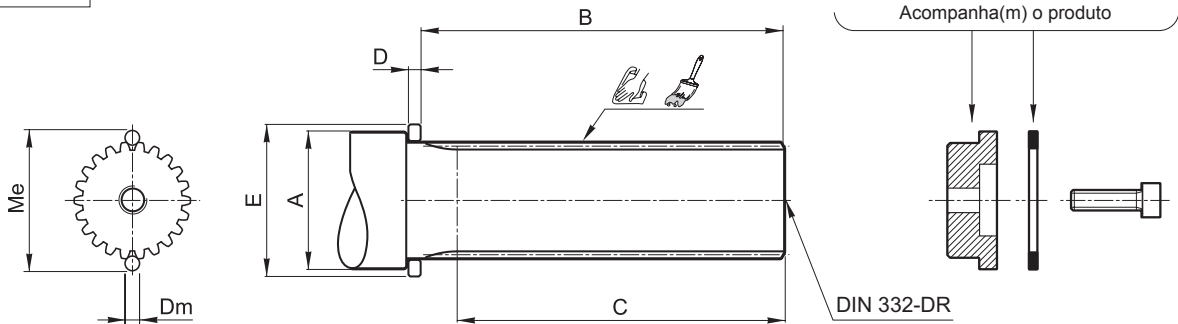
# US





Dimensões em mm

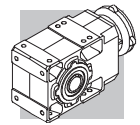
	A1	A2	A3	A4	B	B1	B2	R	S	L	L1	L2	M	M1	 UNI 5739
<b>A 05</b>	≥ 35	27 h7	24	25 h6	129.5	32	63.5	0.5	1.5	29.5	25 d9	11	8.5	7	M10x30
<b>A 10</b>	≥ 42	32 h7	29	30 h6	147.5	34	77.5	0.5	1.5	35.5	30 d9	11	8.5	7	M10x30
<b>A 20</b>	≥ 48	37 h7	34	35 h6	170	40	89	0.5	1.5	43	35 d9	14	8.5	7	M12x35
<b>A 30</b>	≥ 54	42 h7	39	40 h6	191.5	48	95.5	0.5	1.5	49	40 d9	18	10	8.5	M16x45
<b>A 35</b>	≥ 54	42 h7	39	40 h6	208.5	48	112.5	0.5	1.5	49	40 d9	18	10	8.5	M16x45
<b>A 41</b>	≥ 60	47 h7	44	45 h6	222	53	117	1	2	54	45 d9	18	10	8.5	M16x45
<b>A 50</b>	≥ 72	57 h7	54	55 g6	264	46	156	1	2	72	55 d9	22	10	8.5	M20x50
<b>A 55</b>	≥ 72	62 h7	59	60 g6	266	46	158	2.5	2	72	60 d9	22	10	8.5	M20x50
<b>A 60</b>	≥ 90	72 h7	69	70 g6	293	48	178	2.5	2.5	85	70 d9	22	10	8.5	M20x50
<b>A 70</b>	≥ 104	82 h7	79	80 g6	352.5	90	172.5	2.5	2.5	95	80 d9	22	10	8.5	M20x50
<b>A 80</b>	≥ 114	92 h7	89	90 g6	416	100	216	2.5	2.5	105	90 d9	26	22	20.5	M24x70
<b>A 90</b>	≥ 126	102 h7	99	100 g6	469	78	321	2.5	2.5	120	100 d9	26	22	20.5	M24x70

# UV

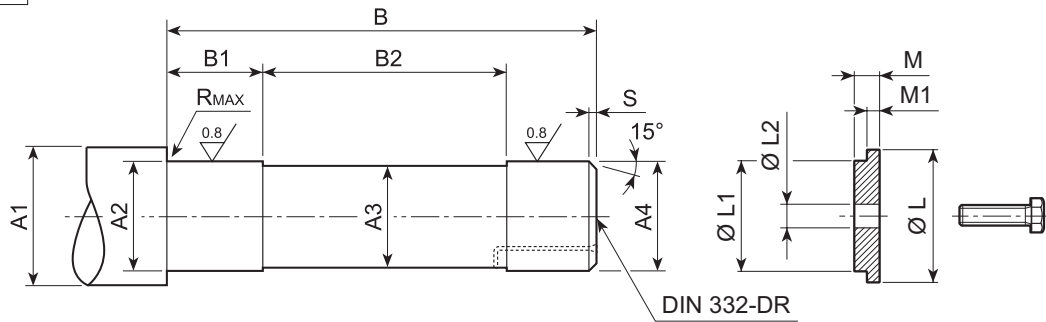


Dimensões em mm


	 DIN 5480	Me	Dm	A	B	C	D	E	 ISO 4762
<b>A 20</b>	30x1.25x22	33.04 +0/-0.04	2.75	≥ 40	111.5	≥ 95	7	45	M10x35
<b>A 30</b>	35x2x16	38.93 +0/-0.04	4	≥ 45	130.5	≥ 112	7	50	M12x40
<b>A 35</b>	35x2x16	38.93 +0/-0.04	4	≥ 45	147.5	≥ 129	7	50	M12x40
<b>A 41</b>	45x2x21	48.86 +0/-0.04	4	≥ 55	155.5	≥ 136	7	60	M16x45
<b>A 50</b>	50x2x24	54.14 +0/-0.05	4	≥ 60	196	≥ 175	7	65	M16x45
<b>A 55</b>	50x2x24	54.14 +0/-0.05	4	≥ 60	196	≥ 175	7	65	M16x45
<b>A 60</b>	65x2x31	68.97 +0 /-0.05	4	≥ 75	213.5	≥ 191	7	80	M20x55



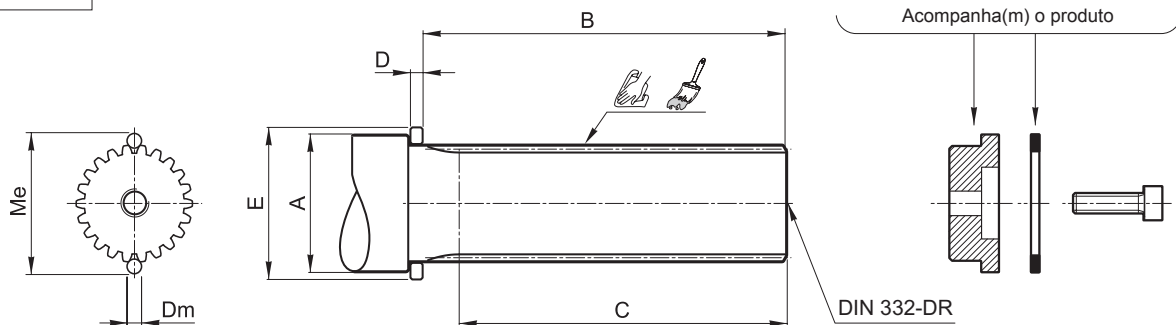
# US





Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

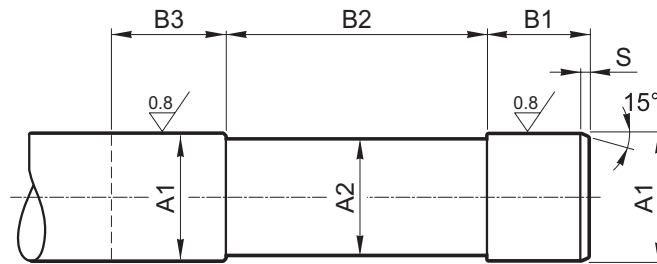
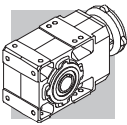
	A1	A2	A3	A4	B	B1	B2	R	S	L	L1	L2	M	M1	 UNI 5739
<b>A 05</b>	≥ 1.378	1.063 <sup>+0</sup> / <sub>-0.0008</sub>	0.945	0.984 <sup>+0</sup> / <sub>-0.0005</sub>	5.098	1.260	2.500	0.020	0.059	1.161	0.984 <sup>-0.0026</sup> / <sub>-0.0046</sub>	0.433	0.335	0.276	<i>M10x30</i>
<b>A 10</b>	≥ 1.654	1.260 <sup>+0</sup> / <sub>-0.0010</sub>	1.142	1.181 <sup>+0</sup> / <sub>-0.0005</sub>	5.807	1.339	3.051	0.020	0.059	1.398	1.181 <sup>-0.0026</sup> / <sub>-0.0046</sub>	0.433	0.335	0.276	<i>M10x30</i>
<b>A 20</b>	≥ 1.890	1.457 <sup>+0</sup> / <sub>-0.0010</sub>	1.339	1.378 <sup>+0</sup> / <sub>-0.0006</sub>	6.693	1.575	3.504	0.020	0.059	1.693	1.378 <sup>-0.0031</sup> / <sub>-0.0056</sub>	0.551	0.335	0.276	<i>M12x35</i>
<b>A 30</b>	≥ 2.126	1.654 <sup>+0</sup> / <sub>-0.0010</sub>	1.535	1.575 <sup>+0</sup> / <sub>-0.0006</sub>	7.539	1.890	3.760	0.020	0.059	1.929	1.575 <sup>-0.0031</sup> / <sub>-0.0056</sub>	0.709	0.394	0.335	<i>M16x45</i>
<b>A 35</b>	≥ 2.126	1.654 <sup>+0</sup> / <sub>-0.0010</sub>	1.535	1.575 <sup>+0</sup> / <sub>-0.0006</sub>	8.209	1.890	4.429	0.020	0.059	1.929	1.575 <sup>-0.0031</sup> / <sub>-0.0056</sub>	0.709	0.394	0.335	<i>M16x45</i>
<b>A 41</b>	≥ 2.362	1.850 <sup>+0</sup> / <sub>-0.0010</sub>	1.732	1.772 <sup>+0</sup> / <sub>-0.0006</sub>	8.740	2.087	4.606	0.039	0.079	2.126	1.772 <sup>-0.0031</sup> / <sub>-0.0056</sub>	0.709	0.394	0.335	<i>M16x45</i>
<b>A 50</b>	≥ 2.835	2.244 <sup>+0</sup> / <sub>-0.0012</sub>	2.126	2.165 <sup>-0.0004</sup> / <sub>-0.0011</sub>	10.394	1.811	6.142	0.039	0.079	2.835	2.165 <sup>-0.0039</sup> / <sub>-0.0069</sub>	0.866	0.394	0.335	<i>M20x50</i>
<b>A 55</b>	≥ 2.835	2.441 <sup>+0</sup> / <sub>-0.0012</sub>	2.323	2.362 <sup>-0.0004</sup> / <sub>-0.0011</sub>	10.472	1.811	6.220	0.098	0.079	2.835	2.362 <sup>-0.0039</sup> / <sub>-0.0069</sub>	0.866	0.394	0.335	<i>M20x50</i>
<b>A 60</b>	≥ 3.543	2.835 <sup>+0</sup> / <sub>-0.0012</sub>	2.717	2.756 <sup>-0.0004</sup> / <sub>-0.0011</sub>	11.535	1.890	7.008	0.098	0.098	3.346	2.756 <sup>-0.0039</sup> / <sub>-0.0069</sub>	0.866	0.394	0.335	<i>M20x50</i>
<b>A 70</b>	≥ 4.094	3.228 <sup>+0</sup> / <sub>-0.0014</sub>	3.110	3.150 <sup>-0.0004</sup> / <sub>-0.0011</sub>	13.878	3.543	6.791	0.098	0.098	3.740	3.150 <sup>-0.0039</sup> / <sub>-0.0069</sub>	0.866	0.394	0.335	<i>M20x50</i>
<b>A 80</b>	≥ 4.488	3.622 <sup>+0</sup> / <sub>-0.0014</sub>	3.504	3.543 <sup>-0.0005</sup> / <sub>-0.0013</sub>	16.378	3.937	8.504	0.098	0.098	4.134	3.543 <sup>-0.0047</sup> / <sub>-0.0081</sub>	1.024	0.866	0.807	<i>M24x70</i>
<b>A 90</b>	≥ 4.961	4.016 <sup>+0</sup> / <sub>-0.0014</sub>	3.898	3.937 <sup>-0.0005</sup> / <sub>-0.0013</sub>	18.465	3.071	12.638	0.098	0.098	4.724	3.937 <sup>-0.0047</sup> / <sub>-0.0081</sub>	1.024	0.866	0.807	<i>M24x70</i>

# UV



Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

	 DIN 5480	Me	Dm	A	B	C	D	E	 ISO 4762
<b>A 20</b>	<i>30x1.25x22</i>	1.301 <sup>+0</sup> / <sub>-0.0016</sub>	0.108	≥ 1.575	4.390	≥ 3.740	0.276	1.772	<i>M10x35</i>
<b>A 30</b>	<i>35x2x16</i>	1.533 <sup>+0</sup> / <sub>-0.0016</sub>	0.157	≥ 1.772	5.138	≥ 4.409	0.276	1.969	<i>M12x40</i>
<b>A 35</b>	<i>35x2x16</i>	1.533 <sup>+0</sup> / <sub>-0.0016</sub>	0.157	≥ 1.772	5.807	≥ 5.079	0.276	1.969	<i>M12x40</i>
<b>A 41</b>	<i>45x2x21</i>	1.924 <sup>+0</sup> / <sub>-0.0016</sub>	0.157	≥ 2.165	6.122	≥ 5.354	0.276	2.362	<i>M16x45</i>
<b>A 50</b>	<i>50x2x24</i>	2.131 <sup>+0</sup> / <sub>-0.0020</sub>	0.157	≥ 2.362	7.717	≥ 6.890	0.276	2.559	<i>M16x45</i>
<b>A 55</b>	<i>50x2x24</i>	2.131 <sup>+0</sup> / <sub>-0.0020</sub>	0.157	≥ 2.362	7.717	≥ 6.890	0.276	2.559	<i>M16x45</i>
<b>A 60</b>	<i>65x2x31</i>	2.715 <sup>+0</sup> / <sub>-0.0020</sub>	0.157	≥ 2.953	8.406	≥ 7.520	0.276	3.150	<i>M20x55</i>



Dimensões em mm

**QF**

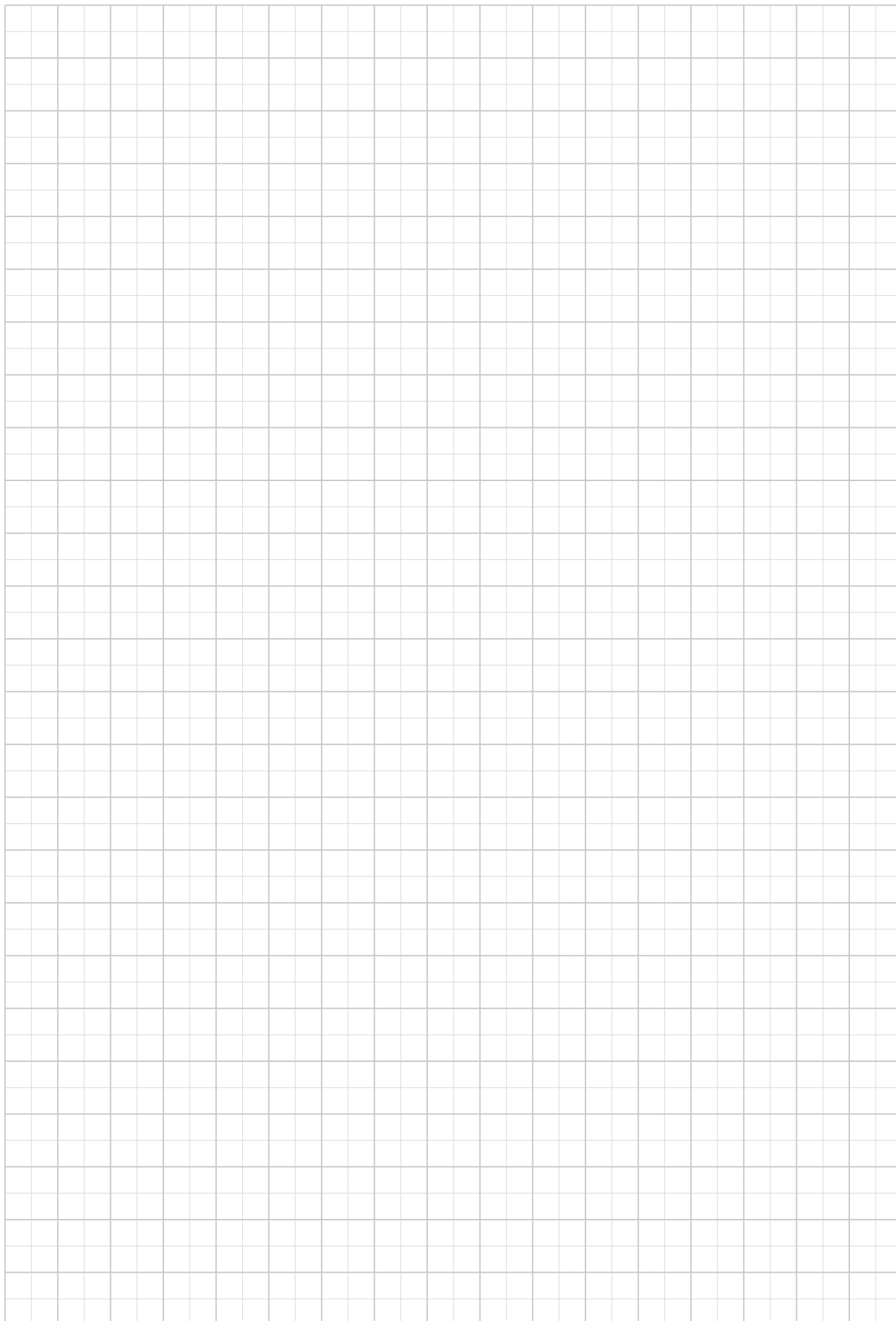
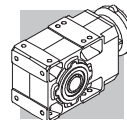
		A1	A2	B1	B2	B3	S
A 10	QF25	25 h6	24	41	95	≥ 50	1.5
	QF30	30 h6	29				
A 20	QF25	25 h6	24	41	115	≥ 50	1.5
	QF30	30 h6	29				
A 30	QF35	35 h6	34	45	130	≥ 54	1.5
	QF40	40 h6	39				
A 35	QF35	35 h6	34	45	146.5	≥ 54	1.5
	QF40	40 h6	39				
A 41	QF40	40 h6	39	47	151.5	≥ 56	2
	QF45	45 h6	44				
A 50	QF50	50 h6	49	48	197	≥ 57	2
	QF55	55 h6	54				
A 55	QF55	55 h6	54	50	190	≥ 59	2
	QF60	60 h6	59				
A 60	QF60	60 h6	59	57	203	≥ 66	2.5
	QF65	65 h6	64				
	QF70	70 h6	69				

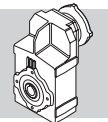
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

**NQF**

		A1	A2	B1	B2	B3	S
A 10	NQF1	1.000 <sup>+0</sup> <sub>-0.0005</sub>	0.961	1.614	3.740	≥ 1.969	0.059
	NQF1-3/16	1.1875 <sup>+0</sup> <sub>-0.0006</sub>	1.148				
A 20	NQF1	1.000 <sup>+0</sup> <sub>-0.0005</sub>	0.961	1.614	4.528	≥ 1.969	0.059
	NQF1-3/16	1.1875 <sup>+0</sup> <sub>-0.0006</sub>	1.148				
A 30	NQF1-3/8	1.375 <sup>+0</sup> <sub>-0.0006</sub>	1.336	1.772	5.118	≥ 2.126	0.059
	NQF1-7/16	1.4375 <sup>+0</sup> <sub>-0.0006</sub>	1.398				
A 35	NQF1-3/8	1.375 <sup>+0</sup> <sub>-0.0006</sub>	1.336	1.772	5.768	≥ 2.126	0.059
	NQF1-7/16	1.4375 <sup>+0</sup> <sub>-0.0006</sub>	1.398				
A 41	NQF1-1/2	1.500 <sup>+0</sup> <sub>-0.0006</sub>	1.461	1.850	5.965	≥ 2.205	0.079
	NQF1-5/8	1.625 <sup>+0</sup> <sub>-0.0006</sub>	1.586				
A 50	NQF1-15/16	1.9375 <sup>+0</sup> <sub>-0.0006</sub>	1.898	1.890	7.756	≥ 2.244	0.079
	NQF2	2.000 <sup>+0</sup> <sub>-0.0007</sub>	1.961				
A 55	NQF2-3/8	2.375 <sup>+0</sup> <sub>-0.0007</sub>	2.336	1.969	7.480	≥ 2.323	0.079
A 60	NQF2-3/8	2.375 <sup>+0</sup> <sub>-0.0007</sub>	2.336	2.244	7.992	≥ 2.598	0.098
	NQF2-7/16	2.4375 <sup>+0</sup> <sub>-0.0007</sub>	2.398				
	NQF2-3/4	2.750 <sup>+0</sup> <sub>-0.0007</sub>	2.711				







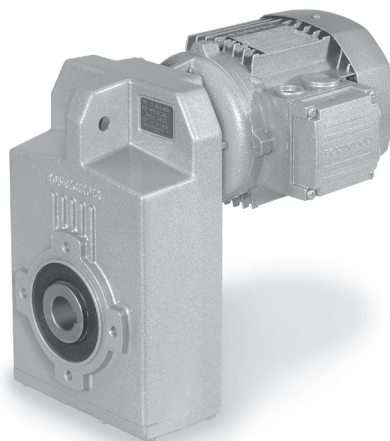
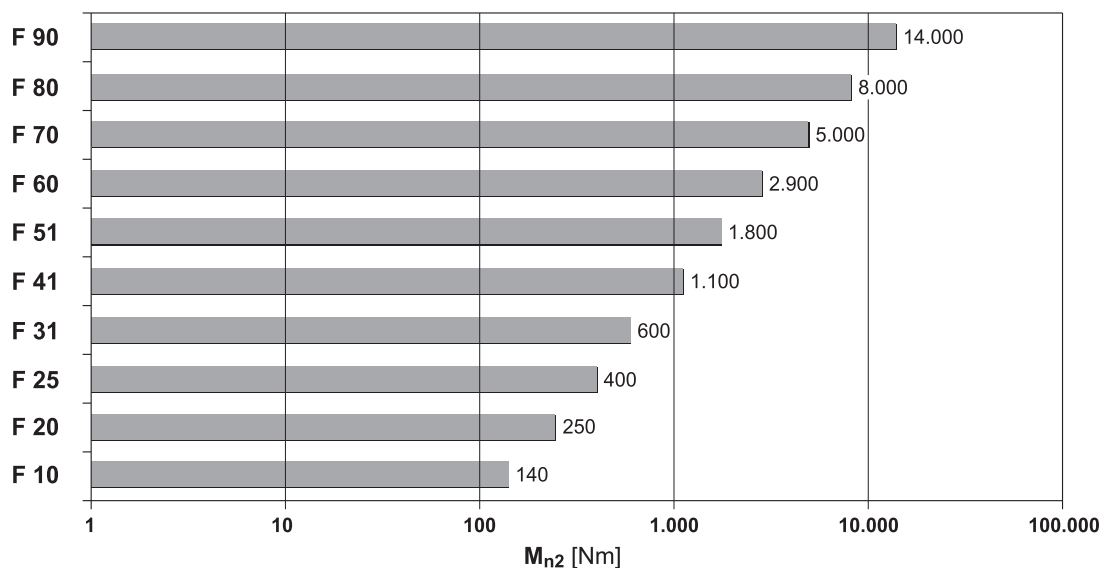
## MOTORREDUTORES PENDULARES SÉRIE F

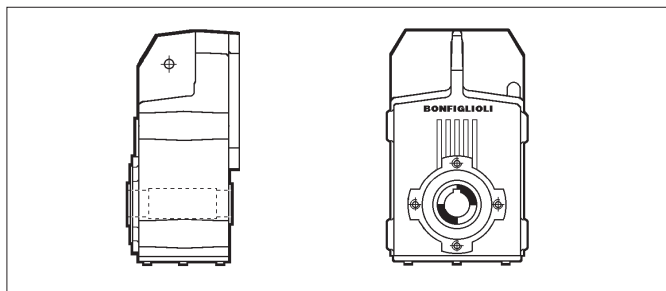
### 47 CARACTERÍSTICAS DE PROJETO

As principais características de projeto são:

- modularidade
- eficiência de espaço
- montagem universal
- alta eficiência
- operação silenciosa
- engrenagens em aço temperado e aço cementado
- caixa de alumínio bruto para os tamanhos 10, 20 e 25
- caixas em ferro fundido de alta resistência pintadas para tamanhos de quadro maiores.

(D 45)

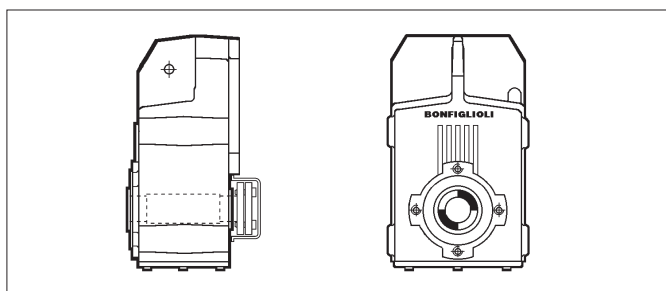




**H / NH**

Eixo de saída oco e chaveta

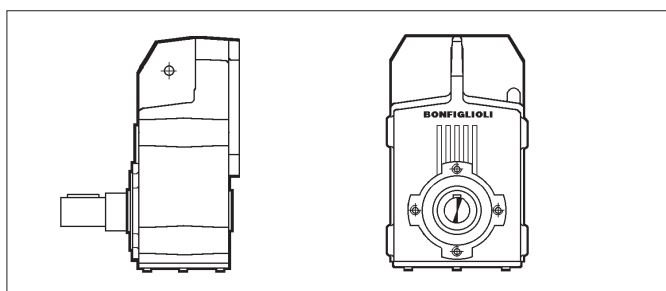
F 10 ... F 90



**S**

Eixo de saída oco e disco de contração

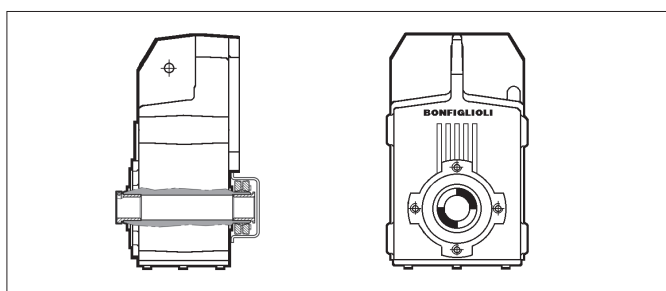
F 10 ... F 90



**R / NR**

Eixo de saída sólido

F 10 ... F 90



**QF / NQF**  
**(Quick-fit)**

Eixo oco de encaixe rápido com buchas adaptadoras e disco de contração

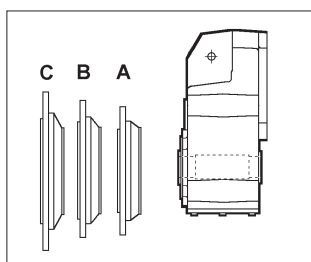
F 10 ... F 60

M <sub>n2 max</sub> [Nm]			
F 25	QF30	NQF 1-3/16	350
F 41	QF42	NQF 1-5/8	850
	QF45	NQF 1-3/4	1000
F 51	QF50	NQF 1-15/16 NQF 2	1750

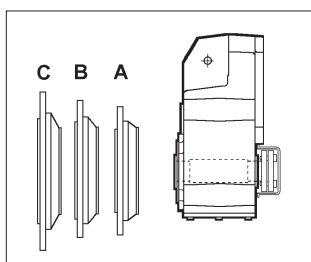
**Versões básicas com flange parafusado**

Os desenhos mostram os flanges aplicáveis às versões básicas.

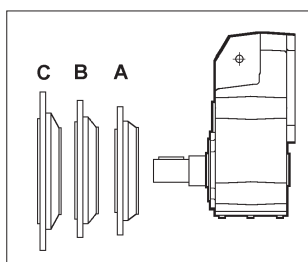
**H / NH... F...**



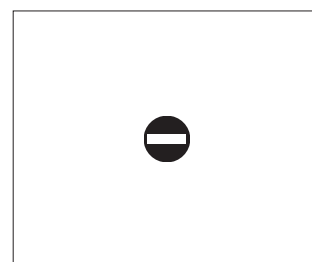
**S F...**

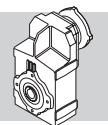


**R / NR F...**



**QF / NQF...**





REDUTORES

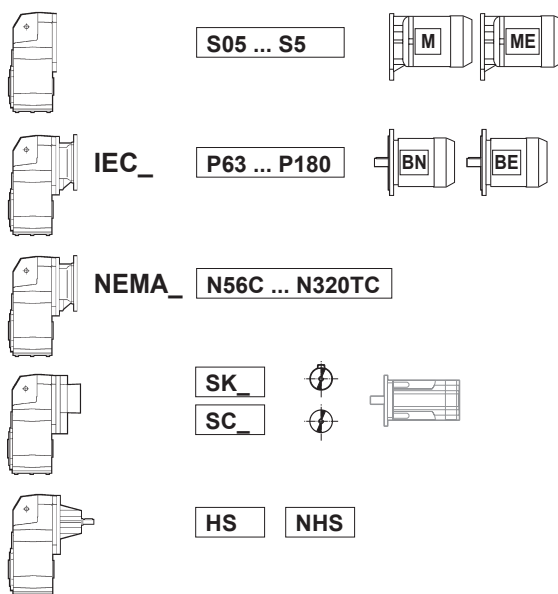
**F 10 2 H FA 9.8 S2 H5 .....**

OPÇÕES

POSIÇÃO DE MONTAGEM

**H1 (Padrão), H2, H3, H4, H5, H6**

CONFIGURAÇÃO DE ENTRADA



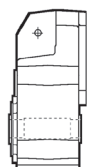
RELAÇÃO DE TRANSMISSÃO

TAMANHO E POSIÇÃO DO FLANGE DE SAÍDA (especificar somente se solicitado)

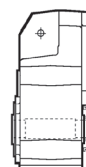
**F** = Versão com flange

**A, B, C** = Tamanho do flange

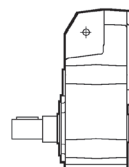
VERSÃO



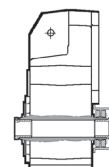
**H / NH**



**S**



**R / NR**



**QF / NQF**

	F 10	F 20	F 25	F 31	F 41	F 51	F 60	F 70	F 80	F 90
Padrão	<b>H25</b>	<b>H30</b>	<b>H35</b>	<b>H35</b>	<b>H40</b>	<b>H50</b>	<b>H60</b>	<b>H80</b>	<b>H90</b>	<b>H100</b>
Alternativos	H30	H35	H40	H40	H45	H55	H70	H70	H80	H90

(F 10...F 90)

(F 10...F 90)

(F 10...F 60)

Diâmetros alternativos disponíveis mediante solicitação

REDUÇÕES

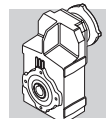
**2** (F 10...F 51), **3** (F 20...F 90), **4** (F 31...F 90)

TAMANHO DO QUADRO DE ENGRENAGEM

**10, 20, 25, 31, 41, 51, 60, 70, 80, 90**

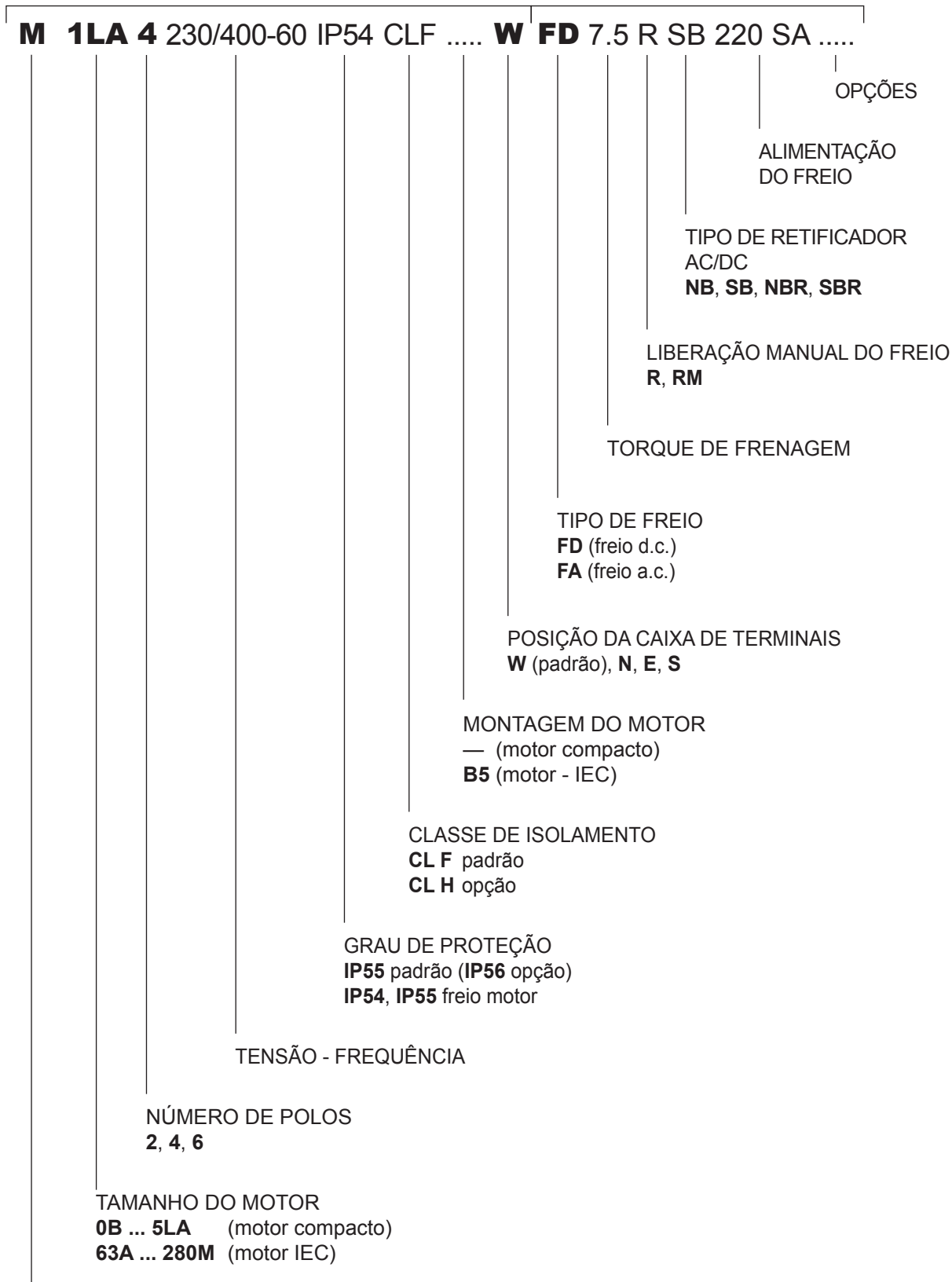
TIPO

**F** = helicoidal pendular



MOTOR

FREIO

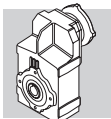


TIPO DE MOTOR

**ME** = trifásico compacto, classe IE2    **M** = trifásico compacto

**BE** = IEC trifásico, classe IE2    **BN** = trifásico IEC

**NEMA** = Trifásico a ser especificado conforme ordem



## 49.1 Opções de redutor

### AL, AR

A pedido, o redutor pode ser fornecido completo com um dispositivo contrarrecuo que permite que o eixo de saída gire somente no sentido especificado no pedido. A tabela abaixo mostra os redutores em que o dispositivo contrarrecuo pode ser instalado.

(D 46)

F 31 2*	F 41 2 ● (6.7; 10.8)					
F 31 3*	F 41 3	F 51 3	F 60 3	F 70 3	F 80 3	F 90 3
		F 51 4	F 60 4	F 70 4	F 80 4	F 90 4

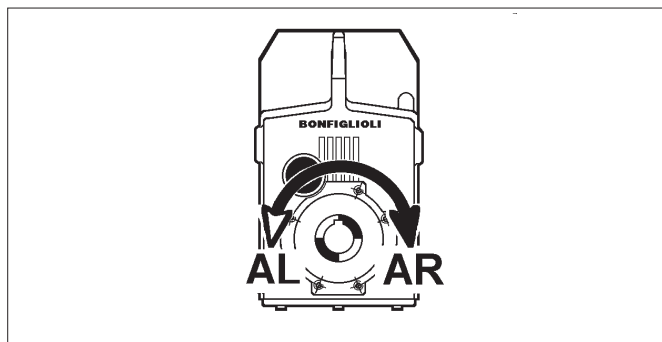
\* O fornecimento do contrarrecuo impedirá a configuração dos adaptadores de servomotor tipos S\_60A, S\_60B, S\_80A.

Ao encomendar o redutor, o sentido da rotação livre deve ser especificado através das opções AR ou AL (Tabela D45).



Obs: Quando o dispositivo contrarrecuo operar com muita frequência, certifique-se de que o torque de retorno do redutor não exceda 70% do torque nominal  $M_{n2}$  do redutor em questão.

(D 47)



### SO

Os redutores F 10 até F 41 geralmente preenchidos com óleo pela fábrica, são fornecidos sem lubrificação.

### LO

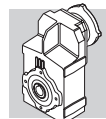
Os redutores F 51 até F 90, geralmente fornecidos sem óleo, devem ser preenchidos com o óleo sintético atualmente usado pela BONFIGLIOLI REDUTORES de acordo com a posição de montagem especificada.

### DV

Retenores de óleo duplos no eixo de entrada. (Disponível apenas para motorredutores integrais).

### VV

Retentor de óleo em fluorelastômero no eixo de entrada.



## PV

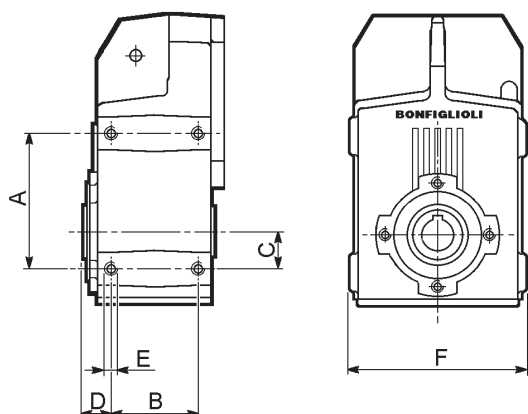
Os eixos de entrada e saída possuem retentor de óleo em Fluoroelastômero.

## FL

Os redutores F 10...F 41 podem ser usinados e roscados especificando a opção FL.

As dimensões de montagem pertinentes à opção FL são fornecidas na tabela abaixo. Os redutores tipo F 51 até F 90 são usinados lateralmente e roscados por padrão.

(D 48)



	A	B	C	D	E	F
<b>F 10</b>	115	60	35	21.25	M8x16	163
<b>F 20</b>	130	70	40	26.5	M10x20	181
<b>F 25</b>	130	70	40	27.5	M10x20	181
<b>F 31</b>	147	80	45	30	M12x20	203
<b>F 41</b>	190	95	60	32.5	M12x22	235

## PROTEÇÃO DE SUPERFÍCIE

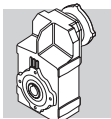
Quando nenhuma classe de proteção específica for exigida, as superfícies (ferrosas) pintadas dos redutores serão protegidas de acordo com a classe de corrosividade C2 (UNI EN ISO 12944-2).

Para aumentar a resistência contra corrosão atmosférica, os redutores podem ser fornecidos com proteções superficiais **C3** e **C4** obtidas pintando-se o redutor inteiro.

(D 49)

PROTEÇÃO DE SUPERFÍCIE	Ambientes típicos	Temperatura máxima de superfície	Classe corrosividade conforme com UNI EN ISO 12944-2
<b>C3</b>	Ambientes urbanos e industriais com até 100% de umidade relativa (poluição do ar média)	120°C	C3
<b>C4</b>	Áreas industriais, áreas costeiras, fábrica de produtos químicos, com até 100% de umidade relativa do ar (poluição do ar elevado)	120°C	C4

Redutores com proteção opcional para classe **C3** ou **C4** estão disponíveis em diversas cores. Se nenhuma cor específica for solicitada (ver a opção "PINTURA"), os redutores serão acabados na cor RAL 7042. Os redutores também podem ser fornecidos com proteção de superfície para corrosividade classe **C5** de acordo com a norma UNI EN ISO 12944-2. Entre em contato com a nossa Assistência Técnica para mais detalhes.



## PINTURA

Redutores com proteção opcional para classe C3 ou C4 estão disponíveis nas cores descritas na tabela abaixo.

(D 50)

PINTURA	Cor	número RAL
<b>RAL7042*</b>	Cinza Tráfego A	7042
<b>RAL5010</b>	Azul Genciano	5010
<b>RAL9005</b>	Preto de Jato	9005
<b>RAL9006</b>	Alumínio Branco	9006
<b>RAL9010</b>	Branco Puro	9010

\* Se nenhuma cor específica for solicitada os redutores serão acabados na cor RAL 7042.

NOTA – Opções de “PINTURA” também podem ser especificadas em conjunto com as opções de “PROTEÇÃO DE SUPERFÍCIE”.

## CERTIFICADOS

### AC - Certificado de Conformidade

O documento certifica a conformidade do produto com a ordem de compra e a construção em conformidade com os procedimentos aplicáveis do Sistema de Qualidade da Bonfiglioli.

### CC - Certificado de Inspeção

O documento implica a verificação do cumprimento do pedido, a inspeção visual das condições externas e das dimensões de acoplamento. A verificação dos principais parâmetros funcionais na condição descarregado também é feita juntamente com a vedação do óleo, tanto na condição estática como na condição de funcionamento. As unidades inspecionadas são amostradas dentro do lote de transporte e marcadas individualmente.

### 49.2 Acessórios

Ver capítulo 68 deste catálogo.

### 49.3 Opções de motor

#### AA, AC, AD

Posição angular da alavanca de liberação do freio em relação à caixa de terminais, olhando pelo lado da ventoinha.

Posição padrão = 90° no sentido horário. AA = 0°, AC = 180°, AD = 90° no sentido anti-horário.

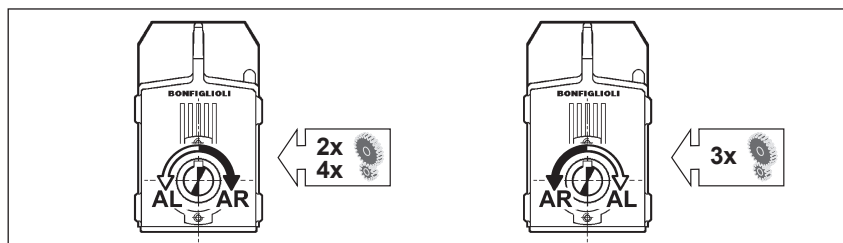




## AL, AR

Um dispositivo contrarrecuo instalado no próprio motor, conforme descrição na seção “Motores Elétricos” deste catálogo, está disponível para redutores com motores integrais Série M ou ME. A tabela abaixo mostra o sentido de rotação livre do redutor, com base no qual a opção correta deve ser selecionada.

(D 51)



## CF

Filtro capacitivo.

## D3

3 sensores bimetálicos de temperatura bobinagem, calibrados a 150°C.

## E3

3 termistores de temperatura de bobinagem, calibrados a 150°C.

## F1

Volante de inércia para partida e parada suaves.

## H1

Aquecedores anticondensação. Tensão padrão: 1~ 230V ±10%.

## PN

60 Hz de potência correspondente à potência normalizada de 50 Hz.

## PS

Extensão de eixo duplo (exceto opções RC e U1).

## RC

Tampa de gotejamento (exceto opção PS).

## RV

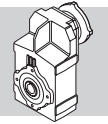
Balanceamento do rotor em vibração classe B.

## TC

A opção TC é uma variante de cobertura contra chuva para ambientes da indústria têxtil. Esta opção não é compatível com as variantes EN\_ .

## TP

Tropicalização.



## U1

Refrigeração forçada (exceto opções PS e CUS).

## U2

Ventilação forçada com alimentação separada, sem caixa de terminais. Cabos com fios já instalados. A configuração não é compatível com as opções PS e CUS. Disponível nos motores: BN 71, BE 80 ... BE 132, M1, ME2 ... ME4.

Para mais informações sobre opções, consulte a seção “Motores Elétricos”.

## 50 LUBRIFICAÇÃO

As peças internas dos redutores Bonfiglioli são banhadas em óleo e lubrificadas por meio de borrifo. Quadros tamanhos F 10 até F 41 são fornecidos pela fábrica ou pelos revendedores autorizados já preenchidos com óleo. Salvo especificado de outro modo, unidades tamanho F 51 ou maior são geralmente fornecidas sem lubrificação uma vez que o cliente é responsável pelo abastecimento de óleo antes de colocá-las em operação. Em ambos os casos, dependendo da versão, antes de colocar o redutor em operação poderá ser necessário substituir o bujão fechado usado para fins de transporte por um bujão de respiro fornecido com o produto. Para tabelas de referência colocação de bujões de óleo e quantidade de lubrificante, consulte o Manual de Instalação, Operação e Manutenção (disponível no site: [www.bonfiglioli.com](http://www.bonfiglioli.com)). O lubrificante de “longa duração” à base de poliglicol fornecido pela fábrica, se não estiver contaminado, não requer trocas de óleo periódicas durante a vida útil do redutor.

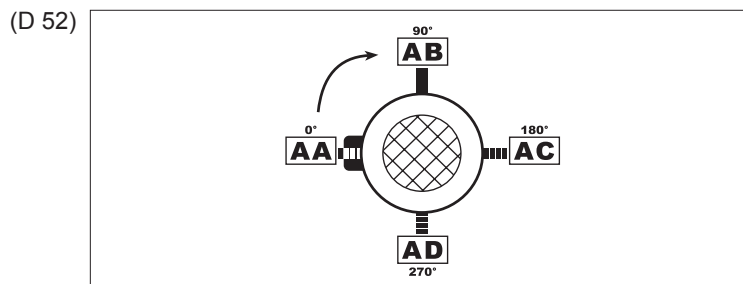
A operação dos redutores é permitida a temperaturas ambiente entre  $-20^{\circ}\text{C}$  e  $+40^{\circ}\text{C}$ . Entretanto, para temperaturas entre  $-20^{\circ}\text{C}$  e  $-10^{\circ}\text{C}$ , a unidade só poderá ser iniciada depois de ter sido gradual e uniformemente pré-aquecida ou inicialmente operada sem carga. A carga poderá então ser conectada ao eixo de saída quando o redutor tiver atingido a temperatura de  $-10^{\circ}\text{C}$ , ou superior.

## 51 POSIÇÃO DE MONTAGEM E LOCALIZAÇÃO ANGULAR DA CAIXA DE TERMINAIS

A localização da caixa de terminais do motor pode ser especificada visualizando o motor pelo lado da ventoinha; a localização padrão é mostrada em preto (W).

### Localização angular da alavanca de liberação do freio.

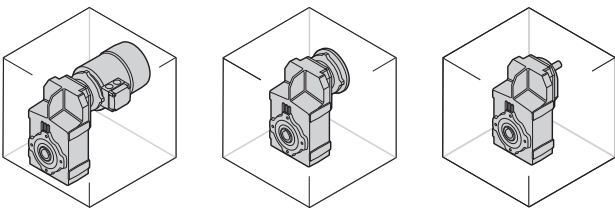
Salvo especificado de outro modo, motores com freio têm o lado do dispositivo manual localizado a um ângulo de  $90^{\circ}$  da caixa de terminais. Ângulos diferentes podem ser especificados utilizando as opções pertinentes disponíveis.



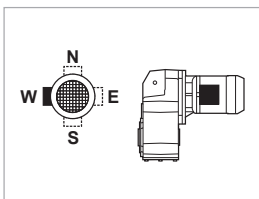


# F ...

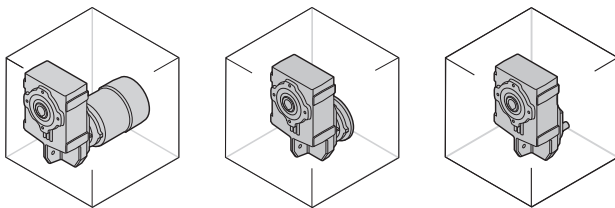
## H1



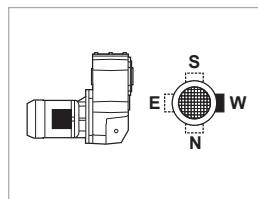
**\_S**   **\_P(IEC)**   **\_N(NEMA)**   **\_SK / \_SC**   **\_HS**   **\_NHS**



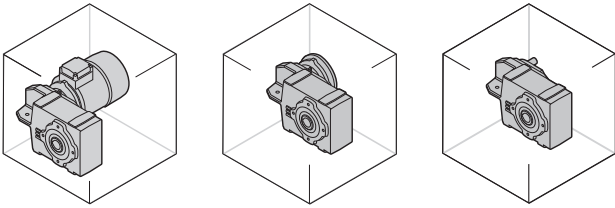
## H2



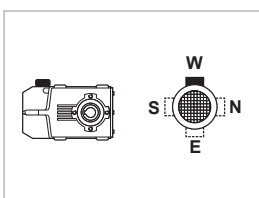
**\_S**   **\_P(IEC)**   **\_N(NEMA)**   **\_SK / \_SC**   **\_HS**   **\_NHS**



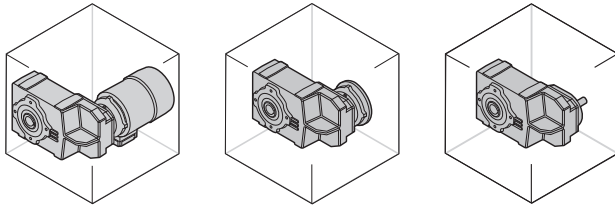
## H3



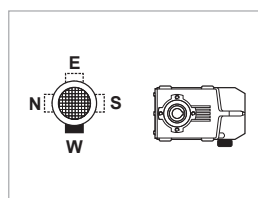
**\_S**   **\_P(IEC)**   **\_N(NEMA)**   **\_SK / \_SC**   **\_HS**   **\_NHS**



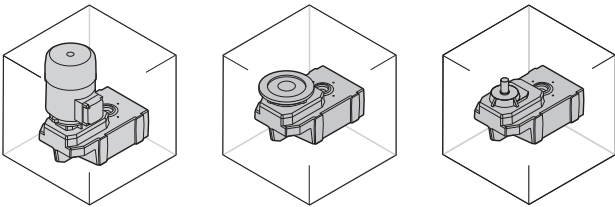
## H4



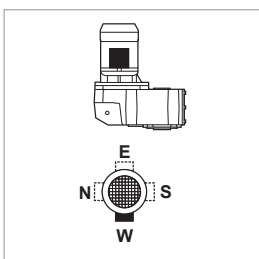
**\_S**   **\_P(IEC)**   **\_N(NEMA)**   **\_SK / \_SC**   **\_HS**   **\_NHS**



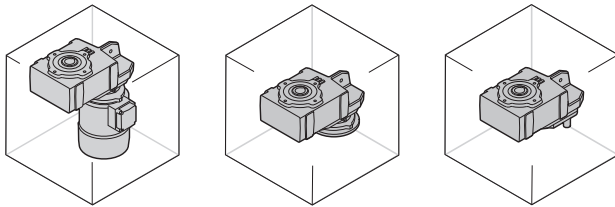
## H5



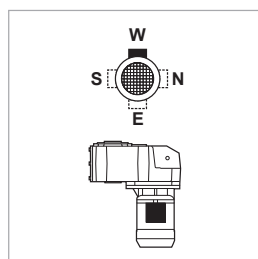
**\_S**   **\_P(IEC)**   **\_N(NEMA)**   **\_SK / \_SC**   **\_HS**   **\_NHS**



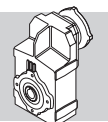
## H6



**\_S**   **\_P(IEC)**   **\_N(NEMA)**   **\_SK / \_SC**   **\_HS**   **\_NHS**



W = Default



## 52 CARGAS RADIAIS

Transmissões externas chavetadas no eixo de entrada e/ou saída geram cargas que atuam radialmente sobre o mesmo eixo.

A carga resultante sobre o eixo deve ser compatível com a capacidade do rolamento e do eixo. A saber, a carga sobre o eixo ( $R_{c1}$  para o eixo de entrada,  $R_{c2}$  para o eixo de saída) deve ser igual ou menor que a capacidade de carga radial permitida para o eixo em estudo ( $R_{n1}$  para o eixo de entrada,  $R_{n2}$  para o eixo de saída). Capacidade OHL informada na tabela de classificação.

Nas fórmulas apresentadas abaixo, o índice (1) refere-se aos parâmetros do eixo de entrada, enquanto o índice (2) refere-se ao eixo de saída.

A carga gerada por uma transmissão externa pode ser calculada de forma bastante aproximada com as seguintes equações:

$$R_{c1} [N] = \frac{2000 \cdot M_1 [Nm] \cdot K_r}{d [mm]} \quad ; \quad R_{c2} [N] = \frac{2000 \cdot M_2 [Nm] \cdot K_r}{d [mm]} \quad (35)$$

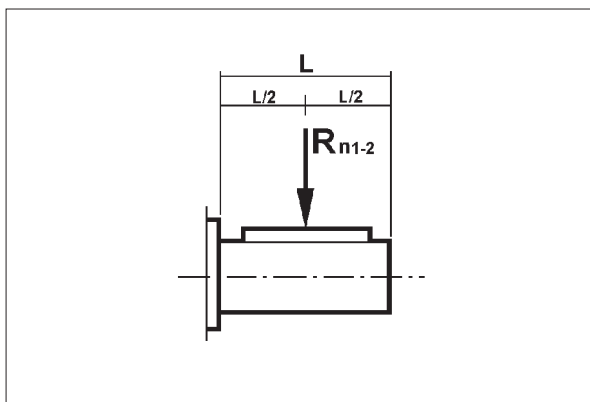
(D 53)

$M_1$ [Nm]	Torque aplicado ao eixo de entrada
$M_2$ [Nm]	Torque produzido no eixo de saída
$d$ [mm]	Diâmetro primitivo do elemento chaveado no eixo
$K_r = 1$	Transmissão por corrente

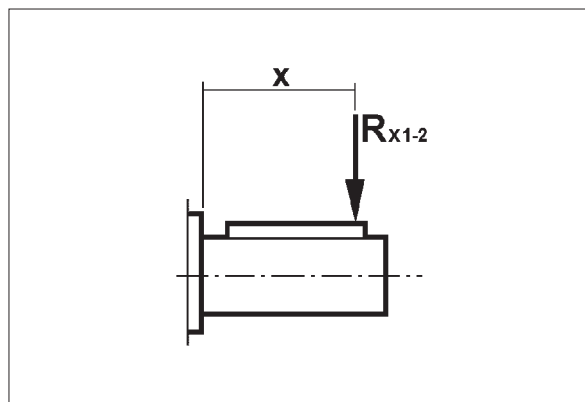
$K_r = 1.25$	Transmissão por engrenagem
$K_r = 1.5$	Transmissão por correia tipo V
$K_r = 2.0$	Transmissão por correia plana

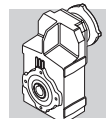
A verificação da capacidade OHL varia dependendo de se a carga é aplicada no ponto médio do eixo ou se ela é deslocada para a ponta:

(D 54)



(D 55)





### a) Carga aplicada no ponto médio do eixo, guia. (D52)

Uma comparação de carga sobre o eixo com as classificações do catálogo OHL deve verificar a seguinte condição:

$$R_{c1} \leq R_{n1} \quad [\text{eixo de entrada}]$$

ou

$$R_{c2} \leq R_{n2} \quad [\text{eixo de saída}]$$

### b) Carga fora da guia de ponto médio. (D53)

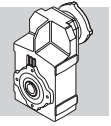
Quando a carga é deslocada a uma distância “x” do batente mecânico do eixo, a carga permitida deve ser calculada para essa distância.

Cargas radiais permitidas revisadas  $R_{x1}$  (entrada) e  $R_{x2}$  (saída) são calculadas respectivamente a partir dos valores nominais originais  $R_{n1}$  e  $R_{n2}$  com o fator:

$$\frac{a}{b+x} \quad (36)$$

(D 56)

	Fatores de localização de carga [mm]					
	Eixo de saída			Eixo de entrada		
	a	b	c	a	b	c
<b>F 10 2</b>	123	100.5	450	21	1	300
<b>F 20 2</b>	145	115	600	40	20	350
<b>F 20 3</b>	145	115	600	21	1	300
<b>F 25 2 - F 25 3</b>	157.5	127.5	800	40	20	350
<b>F 25 4</b>	157.5	127.5	800	21	1	300
<b>F 31 2 - F 31 3</b>	165	135	850	38.5	18.5	350
<b>F 31 4</b>	165	135	850	21	1	300
<b>F 41 2 - F 41 3</b>	191.5	151.5	1000	49.5	24.5	450
<b>F 41 4</b>	191.5	151.5	1000	40	20	350
<b>F 51 2 - F 51 3</b>	233.5	183.5	1300	49.5	24.5	450
<b>F 51 4</b>	233.5	183.5	1300	38.5	18.5	350
<b>F 60 3</b>	258.5	198.5	1100	55.5	25.5	600
<b>F 60 4</b>	258.5	198.5	1100	49.5	24.5	450
<b>F 70 3</b>	342	277	1600	86	31	1000
<b>F 70 4</b>	342	277	1600	49.5	24.5	450
<b>F 80 3</b>	386.5	301.5	1800	86	31	1000
<b>F 80 4</b>	386.5	301.5	1800	49.5	24.5	450
<b>F 90 3</b>	458.5	353.5	2400	116	46	1400
<b>F 90 4</b>	458.5	353.5	2400	49.5	24.5	450



O procedimento de verificação é descrito abaixo.

### EIXO DE ENTRADA

1. Calcular:

$$R_{x1} = R_{n1} \cdot \frac{a}{b+x} \quad (37)$$

OBS: Sujeito à condição:

$$\frac{L}{2} \leq x \leq c \quad (38)$$

Por fim, a condição abaixo deve ser verificada:

$$R_{c1} \leq R_{x1} \quad (39)$$

### EIXO DE SAÍDA

1. Calcular:

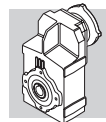
$$R_{x2} = R_{n2} \cdot \frac{a}{b+x} \quad (40)$$

OBS: Sujeito à condição:

$$\frac{L}{2} \leq x \leq c \quad (41)$$

Por fim, a condição abaixo deve ser verificada:

$$R_{c2} \leq R_{x2} \quad (42)$$



### 53 CARGAS AXIAIS, $A_{n1}$ , $A_{n2}$

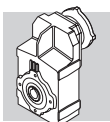
As cargas axiais permitidas nos eixos de entrada [ $A_{n1}$ ] e de saída [ $A_{n2}$ ] são obtidas a partir da carga radial do eixo em consideração [ $R_{n1}$ ] e [ $R_{n2}$ ] por meio da seguinte equação:

$$\begin{aligned} A_{n1} &= R_{n1} \cdot 0.2 \\ A_{n2} &= R_{n2} \cdot 0.2 \end{aligned} \quad (43)$$


As cargas axiais calculadas com estas fórmulas aplicam-se às forças axiais ocorridas ao mesmo tempo que as cargas radiais nominais.

No único caso que nenhuma carga radial atue sobre o eixo, o valor da carga axial permitida [ $A_n$ ] equivale a 50% de OHL nominal [ $R_n$ ] sobre o mesmo eixo.



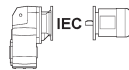

Quando as cargas axiais excederem o valor permitido ou prevalecerem em grande parte sobre as cargas radiais, entre em contato com a Bonfiglioli Redutores para uma análise detalhada da aplicação.



## 54 TABELAS DE CLASSIFICAÇÃO DE MOTOREDUTORES

 A seleção de motores sem freio leva em consideração os requisitos da Norma EC 640/2009 (ver a seção **M** deste catálogo). Quando a potência nominal do motor for maior que 0,75kW, motores BN/M podem ser fornecidos. Considerando que a Norma EC 640/2009 não é aplicável aos motores equipados com freio, a escolha do motofreio leva em consideração apenas motores BN/M, sem considerar a potência nominal. Motofreios BE e ME estão disponíveis mediante solicitação.





### 0.12 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
1.2	881	2.0	1439.5	10980			F514_1439 P63 BN63A4	550
1.2	863	1.3	1410.5	7795	F414_1411 S05 M05A4	542	F414_1411 P63 BN63A4	540
1.3	793	2.3	1295.5	10980			F514_1296 P63 BN63A4	550
1.4	743	1.5	1213.4	7795	F414_1213 S05 M05A4	542	F414_1213 P63 BN63A4	540
1.4	715	2.5	1167.6	10980			F514_1168 P63 BN63A4	550
1.5	668	1.6	1092.0	7795	F414_1092 S05 M05A4	542	F414_1092 P63 BN63A4	540
1.6	655	2.7	1070.3	10980			F514_1070 P63 BN63A4	550
1.6	638	0.9	1042.5	5725	F314_1042 S05 M05A4	532	F314_1042 P63 BN63A4	530
1.7	601	1.8	982.4	7795	F414_982.4 S05 M05A4	542	F414_982.4 P63 BN63A4	540
1.8	574	1.0	938.2	5954	F314_938.2 S05 M05A4	532	F314_938.2 P63 BN63A4	530
1.9	551	2.0	900.5	7795	F414_900.5 S05 M05A4	542	F414_900.5 P63 BN63A4	540
2.0	509	1.2	831.6	5954	F314_831.6 S05 M05A4	532	F314_831.6 P63 BN63A4	530
2.1	498	2.2	813.8	7795	F414_813.8 S05 M05A4	542	F414_813.8 P63 BN63A4	540
2.2	467	1.3	762.3	5954	F314_762.3 S05 M05A4	532	F314_762.3 P63 BN63A4	530
2.3	453	2.4	739.4	7795	F414_739.4 S05 M05A4	542	F414_739.4 P63 BN63A4	540
2.4	440	0.9	718.7	5673	F254_718.7 S05 M05A4	522	F254_718.7 P63 BN63A4	520
2.4	422	2.6	690.1	7795	F414_690.1 S05 M05A4	542	F414_690.1 P63 BN63A4	540
2.5	420	1.4	685.6	5954	F314_685.6 S05 M05A4	532	F314_685.6 P63 BN63A4	530
2.6	394	1.0	643.3	5948	F254_643.3 S05 M05A4	522	F254_643.3 P63 BN63A4	520
2.7	379	1.6	619.9	5954	F314_619.9 S05 M05A4	532	F314_619.9 P63 BN63A4	530
2.9	361	1.1	589.7	5948	F254_589.7 S05 M05A4	522	F254_589.7 P63 BN63A4	520
2.9	354	1.7	578.6	5954	F314_578.6 S05 M05A4	532	F314_578.6 P63 BN63A4	530
3.2	323	1.9	527.8	5954	F314_527.8 S05 M05A4	532	F314_527.8 P63 BN63A4	530
3.2	323	1.2	527.3	5948	F254_527.3 S05 M05A4	522	F254_527.3 P63 BN63A4	520
3.6	285	1.4	466.0	5948	F254_466.0 S05 M05A4	522	F254_466.0 P63 BN63A4	520
3.7	283	2.1	462.6	5954	F314_462.6 S05 M05A4	532	F314_462.6 P63 BN63A4	530
3.9	266	1.5	434.9	5948	F254_434.9 S05 M05A4	522	F254_434.9 P63 BN63A4	520
4.0	265	0.9	419.3	3668	F203_419.3 S05 M05A4	512	F203_419.3 P63 BN63A4	510
4.0	256	2.3	418.9	5954	F314_418.9 S05 M05A4	532	F314_418.9 P63 BN63A4	530
4.3	241	1.7	393.9	5948	F254_393.9 S05 M05A4	522	F254_393.9 P63 BN63A4	520
4.5	237	2.5	374.4	5954		532	F313_374.4 P63 BN63A4	530
4.5	236	1.1	372.9	3668	F203_372.9 S05 M05A4	512	F203_372.9 P63 BN63A4	510
5.1	211	1.9	333.1	5948	F253_333.1 S05 M05A4	522	F253_333.1 P63 BN63A4	520
5.1	210	2.9	332.8	5954			F313_332.8 P63 BN63A4	530
5.3	200	1.2	316.9	3668	F203_316.9 S05 M05A4	512	F203_316.9 P63 BN63A4	510
5.9	182	2.2	288.1	5948	F253_288.1 S05 M05A4	522	F253_288.1 P63 BN63A4	520
5.9	180	1.4	285.2	3668	F203_285.2 S05 M05A4	512	F203_285.2 P63 BN63A4	510
6.6	162	2.5	256.1	5948	F253_256.1 S05 M05A4	522	F253_256.1 P63 BN63A4	520
6.6	161	1.5	255.3	3668	F203_255.3 S05 M05A4	512	F203_255.3 P63 BN63A4	510
7.2	148	1.7	234.0	3668	F203_234.0 S05 M05A4	512	F203_234.0 P63 BN63A4	510
7.4	144	2.8	227.8	5948	F253_227.8 S05 M05A4	522	F253_227.8 P63 BN63A4	520
8.1	132	1.9	209.3	3668	F203_209.3 S05 M05A4	512	F203_209.3 P63 BN63A4	510
9.1	117	2.1	184.9	3668	F203_184.9 S05 M05A4	512	F203_184.9 P63 BN63A4	510
9.8	109	2.3	172.6	3668	F203_172.6 S05 M05A4	512	F203_172.6 P63 BN63A4	510
10.8	99	2.5	156.3	3668	F203_156.3 S05 M05A4	512	F203_156.3 P63 BN63A4	510



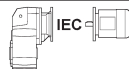





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

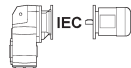

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
12.8	85	2.9	132.2	3668	F202_132.2 S05 M05A4	512	F202_132.2 P63 BN63A4	510
13.3	82	1.7	127.1	2579	F102_127.1 S05 M05A4	502	F102_127.1 P63 BN63A4	500
15.9	68	2.0	106.0	2579	F102_106.0 S05 M05A4	502	F102_106.0 P63 BN63A4	500
18.5	59	2.4	91.5	2579	F102_91.5 S05 M05A4	502	F102_91.5 P63 BN63A4	500
20.8	53	2.7	81.3	2579	F102_81.3 S05 M05A4	502	F102_81.3 P63 BN63A4	500

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

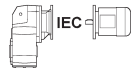

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
0.76	2087	2.4	2187.5	32375			F704_2188 P63 BN63B4	570
0.83	1926	2.6	2019.2	32375			F704_2019 P63 BN63B4	570
1.2	1373	1.3	1439.5	10980			F514_1439 P63 BN63B4	550
1.3	1236	1.5	1295.5	10980			F514_1296 P63 BN63B4	550
1.4	1158	1.0	1213.4	7795	F414_1213 S05 M05B4	542	F414_1213 P63 BN63B4	540
1.4	1114	1.6	1167.6	10980			F514_1168 P63 BN63B4	550
1.5	1089	2.7	1141.4	18500			F604_1141 P63 BN63B4	560
1.5	1042	1.1	1092.0	7795	F414_1092 S05 M05B4	542	F414_1092 P63 BN63B4	540
1.6	1021	1.8	1070.3	10980			F514_1070 P63 BN63B4	550
1.6	1005	2.9	1053.6	18500			F604_1054 P63 BN63B4	560
1.7	937	1.2	982.4	7795	F414_982.4 S05 M05B4	542	F414_982.4 P63 BN63B4	540
1.7	934	1.9	979.4	10980			F514_979.4 P63 BN63B4	550
1.9	859	1.3	900.5	7795	F414_900.5 S05 M05B4	542	F414_900.5 P63 BN63B4	540
1.9	845	2.1	885.5	10980			F514_885.5 P63 BN63B4	550
2.0	788	2.3	826.4	10980			F514_826.4 P63 BN63B4	550
2.1	776	1.4	813.8	7795	F414_813.8 S05 M05B4	542	F414_813.8 P63 BN63B4	540
2.3	705	1.6	739.4	7795	F414_739.4 S05 M05B4	542	F414_739.4 P63 BN63B4	540
2.4	658	1.7	690.1	7795	F414_690.1 S05 M05B4	542	F414_690.1 P63 BN63B4	540
2.4	654	0.9	685.6	5725	F314_685.6 S05 M05B4	532	F314_685.6 P63 BN63B4	530
2.5	645	2.8	676.3	10980			F514_676.3 P63 BN63B4	550
2.7	591	1.0	619.9	5954	F314_619.9 S05 M05B4	532	F314_619.9 P63 BN63B4	530
2.9	552	1.1	578.6	5954	F314_578.6 S05 M05B4	532	F314_578.6 P63 BN63B4	530
3.0	525	2.1	549.8	7795	F414_549.8 S05 M05B4	542	F414_549.8 P63 BN63B4	540
3.2	503	1.2	527.8	5954	F314_527.8 S05 M05B4	532	F314_527.8 P63 BN63B4	530
3.6	441	1.4	462.6	5954	F314_462.6 S05 M05B4	532	F314_462.6 P63 BN63B4	530
3.8	415	1.0	434.9	5948	F254_434.9 S05 M05B4	522	F254_434.9 P63 BN63B4	520
3.9	414	2.7	433.7	7795	F414_433.7 S05 M05B4	542	F414_433.7 P63 BN63B4	540
4.0	400	1.5	418.9	5954	F314_418.9 S05 M05B4	532	F314_418.9 P63 BN63B4	530
4.2	376	1.1	393.9	5948	F254_393.9 S05 M05B4	522	F254_393.9 P63 BN63B4	520
4.5	369	1.6	374.4	5954			F313_374.4 P63 BN63B4	530
5.0	328	1.2	333.1	5948	F253_333.1 S05 M05B4	522	F253_333.1 P63 BN63B4	520
5.0	328	1.8	332.8	5954			F313_332.8 P63 BN63B4	530
5.7	290	2.1	293.8	5954			F313_293.8 P63 BN63B4	530
5.8	284	1.4	288.1	5948	F253_288.1 S05 M05B4	522	F253_288.1 P63 BN63B4	520
6.5	252	1.6	256.1	5948	F253_256.1 S05 M05B4	522	F253_256.1 P63 BN63B4	520
6.5	252	1.0	255.3	3668	F203_255.3 S05 M05B4	512	F203_255.3 P63 BN63B4	510
6.6	250	2.4	253.6	5954			F313_253.6 P63 BN63B4	530
7.1	231	1.1	234.0	3668	F203_234.0 S05 M05B4	512	F203_234.0 P63 BN63B4	510
7.3	225	2.7	228.2	5954			F313_228.2 P63 BN63B4	530
7.3	225	1.8	227.8	5948	F253_227.8 S05 M05B4	522	F253_227.8 P63 BN63B4	520
8.0	206	1.2	209.3	3668	F203_209.3 S05 M05B4	512	F203_209.3 P63 BN63B4	510
8.6	191	2.1	193.6	5948	F253_193.6 S05 M05B4	522	F253_193.6 P63 BN63B4	520
9.0	182	1.4	184.9	3668	F203_184.9 S05 M05B4	512	F203_184.9 P63 BN63B4	510
9.6	172	2.3	174.2	5948	F253_174.2 S05 M05B4	522	F253_174.2 P63 BN63B4	520
9.7	170	1.5	172.6	3668	F203_172.6 S05 M05B4	512	F203_172.6 P63 BN63B4	510
10.7	154	1.6	156.3	3668	F203_156.3 S05 M05B4	512	F203_156.3 P63 BN63B4	510
10.7	154	2.6	155.9	5948	F253_155.9 S05 M05B4	522	F253_155.9 P63 BN63B4	520
11.7	141	2.8	143.0	5948	F253_143.0 S05 M05B4	522	F253_143.0 P63 BN63B4	520
12.6	133	1.9	132.2	3668	F202_132.2 S05 M05B4	512	F202_132.2 P63 BN63B4	510

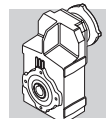


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

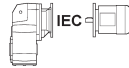

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
13.1	128	1.1	127.1	2579	F102_127.1 S05 M05B4	502	F102_127.1 P63 BN63B4	500
14.6	115	2.2	114.3	3668	F202_114.3 S05 M05B4	512	F202_114.3 P63 BN63B4	510
15.8	107	1.3	106.0	2579	F102_106.0 S05 M05B4	502	F102_106.0 P63 BN63B4	500
16.4	102	2.4	101.6	3668	F202_101.6 S05 M05B4	512	F202_101.6 P63 BN63B4	510
18.3	92	1.5	91.5	2579	F102_91.5 S05 M05B4	502	F102_91.5 P63 BN63B4	500
18.5	91	2.7	90.4	3668	F202_90.4 S05 M05B4	512	F202_90.4 P63 BN63B4	510
20.5	82	1.7	81.3	2579	F102_81.3 S05 M05B4	502	F102_81.3 P63 BN63B4	500
23.5	72	2.0	71.1	2579	F102_71.1 S05 M05B4	502	F102_71.1 P63 BN63B4	500
26.5	63	2.2	63.0	2579	F102_63.0 S05 M05B4	502	F102_63.0 P63 BN63B4	500
29.5	57	2.5	56.7	2579	F102_56.7 S05 M05B4	502	F102_56.7 P63 BN63B4	500
34	49	2.9	48.7	2579	F102_48.7 S05 M05B4	502	F102_48.7 P63 BN63B4	500

## 0.25 kW



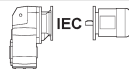

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
0.76	2756	1.8	2187.5	32375			F704_2188 P71 BN71A4	570
0.83	2544	2.0	2019.2	32375			F704_2019 P71 BN71A4	570
0.97	2163	2.3	1716.7	32375			F704_1717 P71 BN71A4	570
1.1	1997	2.5	1584.6	32375			F704_1585 P71 BN71A4	570
1.1	1867	2.7	1481.5	32375			F704_1481 P71 BN71A4	570
1.2	1814	1.0	1439.5	10980			F514_1439 P71 BN71A4	550
1.2	1723	2.9	1367.5	32375			F704_1368 P71 BN71A4	570
1.3	1632	1.1	1295.5	10980			F514_1296 P71 BN71A4	550
1.4	1471	1.2	1167.6	10980			F514_1168 P71 BN71A4	550
1.5	1438	2.0	1141.4	18500			F604_1141 P71 BN71A4	560
1.6	1349	1.3	1070.3	10980			F514_1070 P71 BN71A4	550
1.6	1328	2.2	1053.6	18500			F604_1054 P71 BN71A4	560
1.7	1234	1.5	979.4	10980			F514_979.4 P71 BN71A4	550
1.7	1208	2.4	958.9	18500			F604_958.9 P71 BN71A4	560
1.9	1135	1.0	900.5	7795	F414_900.5 S05 M05C4	542	F414_900.5 P71 BN71A4	540
1.9	1116	1.6	885.5	10980			F514_885.5 P71 BN71A4	550
1.9	1115	2.6	885.1	18500			F604_885.1 P71 BN71A4	560
2.0	1041	1.7	826.4	10980			F514_826.4 P71 BN71A4	550
2.0	1032	2.8	819.0	18500			F604_819.0 P71 BN71A4	560
2.1	1025	1.1	813.8	7795	F414_813.8 S05 M05C4	542	F414_813.8 P71 BN71A4	540
2.3	932	1.2	739.4	7795	F414_739.4 S05 M05C4	542	F414_739.4 P71 BN71A4	540
2.4	870	1.3	690.1	7795	F414_690.1 S05 M05C4	542	F414_690.1 P71 BN71A4	540
2.5	852	2.1	676.3	10980			F514_676.3 P71 BN71A4	550
3.0	693	1.6	549.8	7795	F414_549.8 S05 M05C4	542	F414_549.8 P71 BN71A4	540
3.1	668	2.7	530.5	10980			F514_530.5 P71 BN71A4	550
3.2	665	0.9	527.8	5725	F314_527.8 S05 M05C4	532	F314_527.8 P71 BN71A4	530
3.6	583	1.0	462.6	5954	F314_462.6 S05 M05C4	532	F314_462.6 P71 BN71A4	530
3.9	546	2.0	433.7	7795	F414_433.7 S05 M05C4	542	F414_433.7 P71 BN71A4	540
4.0	528	1.1	418.9	5954	F314_418.9 S05 M05C4	532	F314_418.9 P71 BN71A4	530
4.5	488	1.2	374.4	5954			F313_374.4 P71 BN71A4	530
4.8	449	2.5	344.8	7795			F413_344.8 P71 BN71A4	540
5.0	434	0.9	333.1	5948	F253_333.1 S05 M05C4	522	F253_333.1 P71 BN71A4	520
5.0	433	1.4	332.8	5954			F313_332.8 P71 BN71A4	530
5.6	386	2.8	296.6	7795			F413_296.6 P71 BN71A4	540
5.7	383	1.6	293.8	5954			F313_293.8 P71 BN71A4	530
5.8	375	1.1	288.1	5948	F253_288.1 S05 M05C4	522	F253_288.1 P71 BN71A4	520
6.5	333	1.2	256.1	5948	F253_256.1 S05 M05C4	522	F253_256.1 P71 BN71A4	520
6.6	330	1.8	253.6	5954			F313_253.6 P71 BN71A4	530
7.3	297	2.0	228.2	5954			F313_228.2 P71 BN71A4	530
7.3	297	1.3	227.8	5948	F253_227.8 S05 M05C4	522	F253_227.8 P71 BN71A4	520
8.0	272	0.9	209.3	3668	F203_209.3 S05 M05C4	512	F203_209.3 P71 BN71A4	510
8.3	263	2.3	202.3	5954			F313_202.3 P71 BN71A4	530
8.6	252	1.6	193.6	5948	F253_193.6 S05 M05C4	522	F253_193.6 P71 BN71A4	520
9.0	241	2.5	185.4	5954			F313_185.4 P71 BN71A4	530
9.0	241	1.0	184.9	3668	F203_184.9 S05 M05C4	512	F203_184.9 P71 BN71A4	510
9.6	227	1.8	174.2	5948	F253_174.2 S05 M05C4	522	F253_174.2 P71 BN71A4	520
9.7	225	1.1	172.6	3668	F203_172.6 S05 M05C4	512	F203_172.6 P71 BN71A4	510
10.0	217	2.8	166.8	5954			F313_166.8 P71 BN71A4	530
10.7	204	1.2	156.3	3668	F203_156.3 S05 M05C4	512	F203_156.3 P71 BN71A4	510



## 0.25 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
10.7	203	2.0	155.9	5948	F253_155.9 S05 M05C4	522	F253_155.9 P71 BN71A4	520
11.7	186	2.1	143.0	5948	F253_143.0 S05 M05C4	522	F253_143.0 P71 BN71A4	520
12.6	176	1.4	132.2	3668	F202_132.2 S05 M05C4	512	F202_132.2 P71 BN71A4	510
13.1	166	2.4	127.8	5948	F253_127.8 S05 M05C4	522	F253_127.8 P71 BN71A4	520
14.6	152	1.6	114.3	3668	F202_114.3 S05 M05C4	512	F202_114.3 P71 BN71A4	510
14.8	147	2.7	113.0	5948	F253_113.0 S05 M05C4	522	F253_113.0 P71 BN71A4	520
15.8	141	1.0	106.0	2579	F102_106.0 S05 M05C4	502	F102_106.0 P71 BN71A4	500
15.8	137	2.9	105.4	5948	F253_105.4 S05 M05C4	522	F253_105.4 P71 BN71A4	520
16.4	135	1.8	101.6	3668	F202_101.6 S05 M05C4	512	F202_101.6 P71 BN71A4	510
18.3	122	1.2	91.5	2579	F102_91.5 S05 M05C4	502	F102_91.5 P71 BN71A4	500
18.5	120	2.1	90.4	3668	F202_90.4 S05 M05C4	512	F202_90.4 P71 BN71A4	510
20.5	108	1.3	81.3	2579	F102_81.3 S05 M05C4	502	F102_81.3 P71 BN71A4	500
21.7	102	2.4	76.8	3668	F202_76.8 S05 M05C4	512	F202_76.8 P71 BN71A4	510
23.5	95	1.5	71.1	2579	F102_71.1 S05 M05C4	502	F102_71.1 P71 BN71A4	500
24.2	92	2.7	69.1	3668	F202_69.1 S05 M05C4	512	F202_69.1 P71 BN71A4	510
26.5	84	1.7	63.0	2579	F102_63.0 S05 M05C4	502	F102_63.0 P71 BN71A4	500
29.5	75	1.9	56.7	2579	F102_56.7 S05 M05C4	502	F102_56.7 P71 BN71A4	500
34	65	2.2	48.7	2579	F102_48.7 S05 M05C4	502	F102_48.7 P71 BN71A4	500
37	59	2.4	44.7	2579	F102_44.7 S05 M05C4	502	F102_44.7 P71 BN71A4	500
42	53	2.7	39.6	2579	F102_39.6 S05 M05C4	502	F102_39.6 P71 BN71A4	500
47	47	3.0	35.3	2579	F102_35.3 S05 M05C4	502	F102_35.3 P71 BN71A4	500



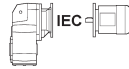

## 0.37 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
0.78	4115	1.2	2187.5	32375	F704_2188 S1 M1SD4	572	F704_2188 P71 BN71B4	570
0.84	3798	1.3	2019.2	32375	F704_2019 S1 M1SD4	572	F704_2019 P71 BN71B4	570
0.86	3737	2.1	1986.8	41715	F804_1987 S1 M1SD4	580	F804_1987 P71 BN71B4	578
0.93	3450	2.3	1834.0	41715	F804_1834 S1 M1SD4	580	F804_1834 P71 BN71B4	578
0.99	3229	1.5	1716.7	32375	F704_1717 S1 M1SD4	572	F704_1717 P71 BN71B4	570
0.99	3215	2.5	1709.1	41715	F804_1709 S1 M1SD4	580	F804_1709 P71 BN71B4	578
1.1	2981	1.7	1584.6	32375	F704_1585 S1 M1SD4	572	F704_1585 P71 BN71B4	570
1.1	2968	2.7	1577.6	41715	F804_1578 S1 M1SD4	580	F804_1578 P71 BN71B4	578
1.1	2787	1.8	1481.5	32375	F704_1481 S1 M1SD4	572	F704_1481 P71 BN71B4	570
1.2	2572	1.9	1367.5	32375	F704_1368 S1 M1SD4	572	F704_1368 P71 BN71B4	570
1.4	2223	2.2	1181.8	32375	F704_1182 S1 M1SD4	572	F704_1182 P71 BN71B4	570
1.5	2147	1.4	1141.4	18500	F604_1141 S1 M1SD4	562	F604_1141 P71 BN71B4	560
1.6	2052	2.4	1090.9	32375	F704_1091 S1 M1SD4	572	F704_1091 P71 BN71B4	570
1.6	1982	1.5	1053.6	18500	F604_1054 S1 M1SD4	562	F604_1054 P71 BN71B4	560
1.7	1842	1.0	979.4	10980	F514_979.4 S1 M1SD4	552	F514_979.4 P71 BN71B4	550
1.7	1833	2.7	974.4	32375	F704_974.4 S1 M1SD4	572	F704_974.4 P71 BN71B4	570
1.8	1804	1.6	958.9	18500	F604_958.9 S1 M1SD4	562	F604_958.9 P71 BN71B4	560
1.9	1692	3.0	899.4	32375	F704_899.4 S1 M1SD4	572	F704_899.4 P71 BN71B4	570
1.9	1666	1.1	885.5	10980	F514_885.5 S1 M1SD4	552	F514_885.5 P71 BN71B4	550
1.9	1665	1.7	885.1	18500	F604_885.1 S1 M1SD4	562	F604_885.1 P71 BN71B4	560
2.1	1555	1.2	826.4	10980	F514_826.4 S1 M1SD4	552	F514_826.4 P71 BN71B4	550
2.1	1540	1.9	819.0	18500	F604_819.0 S1 M1SD4	562	F604_819.0 P71 BN71B4	560
2.2	1422	2.0	756.0	18500	F604_756.0 S1 M1SD4	562	F604_756.0 P71 BN71B4	560
2.5	1272	1.4	676.3	10980	F514_676.3 S1 M1SD4	552	F514_676.3 P71 BN71B4	550
2.6	1246	2.3	662.4	18500	F604_662.4 S1 M1SD4	562	F604_662.4 P71 BN71B4	560
2.8	1150	2.5	611.4	18500	F604_611.4 S1 M1SD4	562	F604_611.4 P71 BN71B4	560
3.1	1034	1.1	549.8	7795	F414_549.8 S1 M1SD4	542	F414_549.8 P71 BN71B4	540
3.2	998	2.9	530.7	18500	F604_530.7 S1 M1SD4	562	F604_530.7 P71 BN71B4	560
3.2	998	1.8	530.5	10980	F514_530.5 S1 M1SD4	552	F514_530.5 P71 BN71B4	550
3.9	816	1.3	433.7	7795	F414_433.7 S1 M1SD4	542	F414_433.7 P71 BN71B4	540
4.0	807	2.2	429.1	10980	F514_429.1 S1 M1SD4	552	F514_429.1 P71 BN71B4	550
4.8	685	2.6	352.5	10980	F513_352.5 S1 M1SD4	552	F513_352.5 P71 BN71B4	550
4.9	670	1.6	344.8	7795	F413_344.8 S1 M1SD4	542	F413_344.8 P71 BN71B4	540
5.1	647	0.9	332.8	5725	F313_332.8 S1 M1SD4	532	F313_332.8 P71 BN71B4	530
5.4	617	2.9	317.3	10980	F513_317.3 S1 M1SD4	552	F513_317.3 P71 BN71B4	550
5.7	576	1.9	296.6	7795	F413_296.6 S1 M1SD4	542	F413_296.6 P71 BN71B4	540
5.8	571	1.1	293.8	5954	F313_293.8 S1 M1SD4	532	F313_293.8 P71 BN71B4	530
6.4	519	2.1	266.9	7795	F413_266.9 S1 M1SD4	542	F413_266.9 P71 BN71B4	540
6.7	493	1.2	253.6	5954	F313_253.6 S1 M1SD4	532	F313_253.6 P71 BN71B4	530



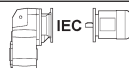





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

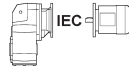

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
7.1	467	2.4	240.1	7795	F413_240.1 S1 M1SD4	542	F413_240.1 P71 BN71B4	540
7.4	444	1.4	228.2	5954	F313_228.2 S1 M1SD4	532	F313_228.2 P71 BN71B4	530
7.5	443	0.9	227.8	5673	F253_227.8 S1 M1SD4	522	F253_227.8 P71 BN71B4	520
7.7	428	2.6	220.1	7795	F413_220.1 S1 M1SD4	542	F413_220.1 P71 BN71B4	540
8.4	393	1.5	202.3	5954	F313_202.3 S1 M1SD4	532	F313_202.3 P71 BN71B4	530
8.5	387	2.8	198.9	7795	F413_198.9 S1 M1SD4	542	F413_198.9 P71 BN71B4	540
8.8	376	1.1	193.6	5948	F253_193.6 S1 M1SD4	522	F253_193.6 P71 BN71B4	520
9.2	360	1.7	185.4	5954	F313_185.4 S1 M1SD4	532	F313_185.4 P71 BN71B4	530
9.8	339	1.2	174.2	5948	F253_174.2 S1 M1SD4	522	F253_174.2 P71 BN71B4	520
10.2	324	1.9	166.8	5954	F313_166.8 S1 M1SD4	532	F313_166.8 P71 BN71B4	530
10.9	303	1.3	155.9	5948	F253_155.9 S1 M1SD4	522	F253_155.9 P71 BN71B4	520
11.3	293	2.0	150.8	5954	F313_150.8 S1 M1SD4	532	F313_150.8 P71 BN71B4	530
11.9	278	1.4	143.0	5948	F253_143.0 S1 M1SD4	522	F253_143.0 P71 BN71B4	520
12.1	274	2.2	140.7	5954	F313_140.7 S1 M1SD4	532	F313_140.7 P71 BN71B4	530
12.9	262	1.0	132.2	3668	F202_132.2 S1 M1SD4	512	F202_132.2 P71 BN71B4	510
13.2	250	2.4	128.4	5954	F313_128.4 S1 M1SD4	532	F313_128.4 P71 BN71B4	530
13.3	248	1.6	127.8	5948	F253_127.8 S1 M1SD4	522	F253_127.8 P71 BN71B4	520
14.9	227	1.1	114.3	3668	F202_114.3 S1 M1SD4	512	F202_114.3 P71 BN71B4	510
15.0	220	1.8	113.0	5948	F253_113.0 S1 M1SD4	522	F253_113.0 P71 BN71B4	520
15.1	219	2.7	112.5	5954	F313_112.5 S1 M1SD4	532	F313_112.5 P71 BN71B4	530
16.1	205	2.0	105.4	5948	F253_105.4 S1 M1SD4	522	F253_105.4 P71 BN71B4	520
16.7	198	2.9	101.9	5954	F313_101.9 S1 M1SD4	532	F313_101.9 P71 BN71B4	530
16.7	202	1.2	101.6	3668	F202_101.6 S1 M1SD4	512	F202_101.6 P71 BN71B4	510
17.8	186	2.2	95.5	5938	F253_95.5 S1 M1SD4	522	F253_95.5 P71 BN71B4	520
18.8	180	1.4	90.4	3668	F202_90.4 S1 M1SD4	512	F202_90.4 P71 BN71B4	510
20.4	162	2.5	83.4	5746	F253_83.4 S1 M1SD4	522	F253_83.4 P71 BN71B4	520
22.1	153	1.6	76.8	3668	F202_76.8 S1 M1SD4	512	F202_76.8 P71 BN71B4	510
22.2	149	2.7	76.6	5636	F253_76.6 S1 M1SD4	522	F253_76.6 P71 BN71B4	520
23.9	141	1.0	71.1	2579	F102_71.1 S1 M1SD4	502	F102_71.1 P71 BN71B4	500
24.6	137	1.8	69.1	3668	F202_69.1 S1 M1SD4	512	F202_69.1 P71 BN71B4	510
26.0	127	3.0	65.3	5417	F253_65.3 S1 M1SD4	522	F253_65.3 P71 BN71B4	520
27.0	125	1.1	63.0	2579	F102_63.0 S1 M1SD4	502	F102_63.0 P71 BN71B4	500
27.5	123	2.0	61.9	3668	F202_61.9 S1 M1SD4	512	F202_61.9 P71 BN71B4	510
30.0	113	2.2	56.7	3668	F202_56.7 S1 M1SD4	512	F202_56.7 P71 BN71B4	510
30.0	113	1.2	56.7	2579	F102_56.7 S1 M1SD4	502	F102_56.7 P71 BN71B4	500
34	101	2.4	50.7	3576	F202_50.7 S1 M1SD4	512	F202_50.7 P71 BN71B4	510
35	97	1.4	48.7	2579	F102_48.7 S1 M1SD4	502	F102_48.7 P71 BN71B4	500
38	89	2.6	44.8	3457	F202_44.8 S1 M1SD4	512	F202_44.8 P71 BN71B4	510
38	89	1.6	44.7	2579	F102_44.7 S1 M1SD4	502	F102_44.7 P71 BN71B4	500
41	83	2.8	41.8	3393	F202_41.8 S1 M1SD4	512	F202_41.8 P71 BN71B4	510
43	79	1.8	39.6	2579	F102_39.6 S1 M1SD4	502	F102_39.6 P71 BN71B4	500
48	70	2.0	35.3	2579	F102_35.3 S1 M1SD4	502	F102_35.3 P71 BN71B4	500
52	65	2.1	33.0	2579	F102_33.0 S1 M1SD4	502	F102_33.0 P71 BN71B4	500
57	59	2.2	29.6	2579	F102_29.6 S1 M1SD4	502	F102_29.6 P71 BN71B4	500
66	51	2.5	25.8	2477	F102_25.8 S1 M1SD4	502	F102_25.8 P71 BN71B4	500
74	45	2.8	22.8	2395	F102_22.8 S1 M1SD4	502	F102_22.8 P71 BN71B4	500

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n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
0.81	5893	2.4	2098.7	50930			F904_2099 P80 BN80A4	586
0.86	5579	1.4	1986.8	41715	F804_1987 S1 M1LA4	580	F804_1987 P80 BN80A4	578
0.88	5440	2.6	1937.3	50930			F904_1937 P80 BN80A4	586
0.93	5150	1.6	1834.0	41715	F804_1834 S1 M1LA4	580	F804_1834 P80 BN80A4	578
1.0	4820	1.0	1716.7	32375	F704_1717 S1 M1LA4	572	F704_1717 P80 BN80A4	570
1.0	4799	1.7	1709.1	41715	F804_1709 S1 M1LA4	580	F804_1709 P80 BN80A4	578
1.0	4780	2.9	1702.3	50930			F904_1702 P80 BN80A4	586
1.1	4450	1.1	1584.6	32375	F704_1585 S1 M1LA4	572	F704_1585 P80 BN80A4	570
1.1	4430	1.8	1577.6	41715	F804_1578 S1 M1LA4	580	F804_1578 P80 BN80A4	578
1.2	4160	1.2	1481.5	32375	F704_1481 S1 M1LA4	572	F704_1481 P80 BN80A4	570
1.2	3886	2.1	1383.8	41715	F804_1384 S1 M1LA4	580	F804_1384 P80 BN80A4	578
1.3	3840	1.3	1367.5	32375	F704_1368 S1 M1LA4	572	F704_1368 P80 BN80A4	570
1.3	3587	2.2	1277.3	41715	F804_1277 S1 M1LA4	580	F804_1277 P80 BN80A4	578
1.4	3319	1.5	1181.8	32375	F704_1182 S1 M1LA4	572	F704_1182 P80 BN80A4	570



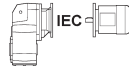



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

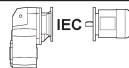

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
1.5	3219	2.5	1146.2	41715	F804_1146 S1 M1LA4	580	F804_1146 P80 BN80A4	578
1.5	3205	0.9	1141.4	18500	F604_1141 S1 M1LA4	562	F604_1141 P80 BN80A4	560
1.6	3063	1.6	1090.9	32375	F704_1091 S1 M1LA4	572	F704_1091 P80 BN80A4	570
1.6	2971	2.7	1058.1	41715	F804_1058 S1 M1LA4	580	F804_1058 P80 BN80A4	578
1.6	2959	1.0	1053.6	18500	F604_1054 S1 M1LA4	562	F604_1054 P80 BN80A4	560
1.8	2736	1.8	974.4	32375	F704_974.4 S1 M1LA4	572	F704_974.4 P80 BN80A4	570
1.8	2730	2.9	972.0	41715	F804_972.0 S1 M1LA4	580	F804_972.0 P80 BN80A4	578
1.8	2692	1.1	958.9	18500	F604_958.9 S1 M1LA4	562	F604_958.9 P80 BN80A4	560
1.9	2526	2.0	899.4	32375	F704_899.4 S1 M1LA4	572	F704_899.4 P80 BN80A4	570
1.9	2485	1.2	885.1	18500	F604_885.1 S1 M1LA4	562	F604_885.1 P80 BN80A4	560
2.1	2309	2.2	822.2	32375	F704_822.2 S1 M1LA4	572	F704_822.2 P80 BN80A4	570
2.1	2300	1.3	819.0	18500	F604_819.0 S1 M1LA4	562	F604_819.0 P80 BN80A4	560
2.3	2131	2.3	759.0	32375	F704_759.0 S1 M1LA4	572	F704_759.0 P80 BN80A4	570
2.3	2123	1.4	756.0	18500	F604_756.0 S1 M1LA4	562	F604_756.0 P80 BN80A4	560
2.5	1899	0.9	676.3	10065	F514_676.3 S1 M1LA4	552	F514_676.3 P80 BN80A4	550
2.6	1860	1.6	662.4	18500	F604_662.4 S1 M1LA4	562	F604_662.4 P80 BN80A4	560
2.6	1846	2.7	657.4	32375	F704_657.4 S1 M1LA4	572	F704_657.4 P80 BN80A4	570
2.8	1717	1.7	611.4	18500	F604_611.4 S1 M1LA4	562	F604_611.4 P80 BN80A4	560
2.8	1704	2.9	606.8	32375	F704_606.8 S1 M1LA4	572	F704_606.8 P80 BN80A4	570
3.2	1490	1.9	530.7	18500	F604_530.7 S1 M1LA4	562	F604_530.7 P80 BN80A4	560
3.2	1490	1.2	530.5	10980	F514_530.5 S1 M1LA4	552	F514_530.5 P80 BN80A4	550
3.5	1375	2.1	489.8	18500	F604_489.8 S1 M1LA4	562	F604_489.8 P80 BN80A4	560
3.9	1218	0.9	433.7	7107	F414_433.7 S1 M1LA4	542	F414_433.7 P80 BN80A4	540
4.0	1215	2.4	432.6	18500	F604_432.6 S1 M1LA4	562	F604_432.6 P80 BN80A4	560
4.0	1205	1.5	429.1	10980	F514_429.1 S1 M1LA4	552	F514_429.1 P80 BN80A4	550
4.3	1121	2.6	399.3	18500	F604_399.3 S1 M1LA4	562	F604_399.3 P80 BN80A4	560
4.9	1023	1.8	352.5	10980	F513_352.5 S1 M1LA4	552	F513_352.5 P80 BN80A4	550
5.0	1000	1.1	344.8	7795	F413_344.8 S1 M1LA4	542	F413_344.8 P80 BN80A4	540
5.4	921	2.0	317.3	10980	F513_317.3 S1 M1LA4	552	F513_317.3 P80 BN80A4	550
5.8	861	1.3	296.6	7795	F413_296.6 S1 M1LA4	542	F413_296.6 P80 BN80A4	540
6.0	830	2.2	285.9	10980	F513_285.9 S1 M1LA4	552	F513_285.9 P80 BN80A4	550
6.4	775	1.4	266.9	7795	F413_266.9 S1 M1LA4	542	F413_266.9 P80 BN80A4	540
6.5	761	2.4	262.1	10980	F513_262.1 S1 M1LA4	552	F513_262.1 P80 BN80A4	550
7.1	697	1.6	240.1	7795	F413_240.1 S1 M1LA4	542	F413_240.1 P80 BN80A4	540
7.1	696	2.6	239.8	10980	F513_239.8 S1 M1LA4	552	F513_239.8 P80 BN80A4	550
7.5	662	0.9	228.2	5404	F313_228.2 S1 M1LA4	532	F313_228.2 P80 BN80A4	530
7.8	639	1.7	220.1	7795	F413_220.1 S1 M1LA4	542	F413_220.1 P80 BN80A4	540
7.9	629	2.9	216.9	10980	F513_216.9 S1 M1LA4	552	F513_216.9 P80 BN80A4	550
8.5	587	1.0	202.3	5954	F313_202.3 S1 M1LA4	532	F313_202.3 P80 BN80A4	530
8.6	577	1.9	198.9	7795	F413_198.9 S1 M1LA4	542	F413_198.9 P80 BN80A4	540
9.2	538	1.1	185.4	5954	F313_185.4 S1 M1LA4	532	F313_185.4 P80 BN80A4	530
9.5	524	2.1	180.7	7795	F413_180.7 S1 M1LA4	542	F413_180.7 P80 BN80A4	540
10.1	489	2.2	168.7	7795	F413_168.7 S1 M1LA4	542	F413_168.7 P80 BN80A4	540
10.3	484	1.2	166.8	5954	F313_166.8 S1 M1LA4	532	F313_166.8 P80 BN80A4	530
11.3	438	1.4	150.8	5954	F313_150.8 S1 M1LA4	532	F313_150.8 P80 BN80A4	530
12.0	415	1.0	143.0	5673	F253_143.0 S1 M1LA4	522	F253_143.0 P80 BN80A4	520
12.2	408	1.5	140.7	5954	F313_140.7 S1 M1LA4	532	F313_140.7 P80 BN80A4	530
12.7	390	2.8	134.4	7795	F413_134.4 S1 M1LA4	542	F413_134.4 P80 BN80A4	540
13.3	372	1.6	128.4	5954	F313_128.4 S1 M1LA4	532	F313_128.4 P80 BN80A4	530
13.4	371	1.1	127.8	5883	F253_127.8 S1 M1LA4	522	F253_127.8 P80 BN80A4	520
15.1	328	1.2	113.0	5609	F253_113.0 S1 M1LA4	522	F253_113.0 P80 BN80A4	520
15.2	327	1.8	112.5	5954	F313_112.5 S1 M1LA4	532	F313_112.5 P80 BN80A4	530
16.2	306	1.3	105.4	5554	F253_105.4 S1 M1LA4	522	F253_105.4 P80 BN80A4	520
16.8	296	1.9	101.9	5954	F313_101.9 S1 M1LA4	532	F313_101.9 P80 BN80A4	530
17.9	277	1.4	95.5	5472	F253_95.5 S1 M1LA4	522	F253_95.5 P80 BN80A4	520
18.9	268	0.9	90.4	3347	F202_90.4 S1 M1LA4	512	F202_90.4 P80 BN80A4	510
19.6	254	2.2	87.4	5954	F313_87.4 S1 M1LA4	532	F313_87.4 P80 BN80A4	530
20.5	242	1.7	83.4	5344	F253_83.4 S1 M1LA4	522	F253_83.4 P80 BN80A4	520
21.7	229	2.4	78.9	5954	F313_78.9 S1 M1LA4	532	F313_78.9 P80 BN80A4	530
22.3	228	1.1	76.8	3668	F202_76.8 S1 M1LA4	512	F202_76.8 P80 BN80A4	510
22.3	222	1.8	76.6	5261	F253_76.6 S1 M1LA4	522	F253_76.6 P80 BN80A4	520
24.7	205	1.2	69.1	3650	F202_69.1 S1 M1LA4	512	F202_69.1 P80 BN80A4	510
24.8	200	2.8	69.1	5954	F313_69.1 S1 M1LA4	532	F313_69.1 P80 BN80A4	530
26.2	190	2.0	65.3	5097	F253_65.3 S1 M1LA4	522	F253_65.3 P80 BN80A4	520
27.6	183	1.4	61.9	3567	F202_61.9 S1 M1LA4	512	F202_61.9 P80 BN80A4	510
29.3	169	2.2	58.3	4968	F253_58.3 S1 M1LA4	522	F253_58.3 P80 BN80A4	520
30	168	1.5	56.7	3494	F202_56.7 S1 M1LA4	512	F202_56.7 P80 BN80A4	510
34	147	2.5	50.8	4822	F253_50.8 S1 M1LA4	522	F253_50.8 P80 BN80A4	520
34	150	1.6	50.7	3411	F202_50.7 S1 M1LA4	512	F202_50.7 P80 BN80A4	510



## 0.55 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
35	144	1.0	48.7	2441	F102_48.7 S1 M1LA4	502	F102_48.7 P80 BN80A4	500
38	132	2.8	45.6	4694			F253_45.6 P80 BN80A4	520
38	133	1.8	44.8	3310	F202_44.8 S1 M1LA4	512	F202_44.8 P80 BN80A4	510
38	132	1.1	44.7	2579	F102_44.7 S1 M1LA4	502	F102_44.7 P80 BN80A4	500
38	132	2.7	44.4	4703	F252_44.4 S1 M1LA4	522	F252_44.4 P80 BN80A4	520
41	124	1.9	41.8	3255	F202_41.8 S1 M1LA4	512	F202_41.8 P80 BN80A4	510
42	121	2.9	40.7	4602	F252_40.7 S1 M1LA4	522	F252_40.7 P80 BN80A4	520
43	118	1.2	39.6	2579	F102_39.6 S1 M1LA4	502	F102_39.6 P80 BN80A4	500
45	112	2.0	37.9	3173	F202_37.9 S1 M1LA4	512	F202_37.9 P80 BN80A4	510
48	105	1.3	35.3	2579	F102_35.3 S1 M1LA4	502	F102_35.3 P80 BN80A4	500
52	98	2.3	33.1	3063	F202_33.1 S1 M1LA4	512	F202_33.1 P80 BN80A4	510
52	98	1.4	33.0	2533	F102_33.0 S1 M1LA4	502	F102_33.0 P80 BN80A4	500
56	90	2.6	30.4	2989	F202_30.4 S1 M1LA4	512	F202_30.4 P80 BN80A4	510
58	88	1.5	29.6	2468	F102_29.6 S1 M1LA4	502	F102_29.6 P80 BN80A4	500
66	77	2.9	25.9	2870	F202_25.9 S1 M1LA4	512	F202_25.9 P80 BN80A4	510
66	76	1.7	25.8	2385	F102_25.8 S1 M1LA4	502	F102_25.8 P80 BN80A4	500
75	68	1.9	22.8	2312	F102_22.8 S1 M1LA4	502	F102_22.8 P80 BN80A4	500
88	57	2.2	19.3	2210	F102_19.3 S1 M1LA4	502	F102_19.3 P80 BN80A4	500
101	50	2.3	17.0	2128	F102_17.0 S1 M1LA4	502	F102_17.0 P80 BN80A4	500
117	43	2.5	14.6	2045	F102_14.6 S1 M1LA4	502	F102_14.6 P80 BN80A4	500
131	39	2.5	13.0	1971	F102_13.0 S1 M1LA4	502	F102_13.0 P80 BN80A4	500
148	34	2.6	11.5	1906	F102_11.5 S1 M1LA4	502	F102_11.5 P80 BN80A4	500
175	29	2.8	9.8	1814	F102_9.8 S1 M1LA4	502	F102_9.8 P80 BN80A4	500
199	25	3.0	8.6	1741	F102_8.6 S1 M1LA4	502	F102_8.6 P80 BN80A4	500



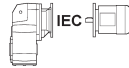

## 0.75 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
0.83	7744	1.8	2098.7	50930	F904_2099 S2 ME2SB4	588	F904_2099 P80 BE80B4	586
0.88	7331	1.1	1986.8	41715	F804_1987 S2 ME2SB4	580	F804_1987 P80 BE80B4	578
0.90	7149	2.0	1937.3	50930	F904_1937 S2 ME2SB4	588	F904_1937 P80 BE80B4	586
0.95	6767	1.2	1834.0	41715	F804_1834 S2 ME2SB4	580	F804_1834 P80 BE80B4	578
1.0	6307	1.3	1709.1	41715	F804_1709 S2 ME2SB4	580	F804_1709 P80 BE80B4	578
1.0	6282	2.2	1702.3	50930	F904_1702 S2 ME2SB4	588	F904_1702 P80 BE80B4	586
1.1	5821	1.4	1577.6	41715	F804_1578 S2 ME2SB4	580	F804_1578 P80 BE80B4	578
1.1	5798	2.4	1571.4	50930	F904_1571 S2 ME2SB4	588	F904_1571 P80 BE80B4	586
1.2	5467	0.9	1481.5	32375	F704_1481 S2 ME2SB4	572	F704_1481 P80 BE80B4	570
1.2	5269	2.7	1427.9	50930	F904_1428 S2 ME2SB4	588	F904_1428 P80 BE80B4	586
1.3	5106	1.6	1383.8	41715	F804_1384 S2 ME2SB4	580	F804_1384 P80 BE80B4	578
1.3	5046	1.0	1367.5	32375	F704_1368 S2 ME2SB4	572	F704_1368 P80 BE80B4	570
1.3	4864	2.9	1318.1	50930	F904_1318 S2 ME2SB4	588	F904_1318 P80 BE80B4	586
1.4	4713	1.7	1277.3	41715	F804_1277 S2 ME2SB4	580	F804_1277 P80 BE80B4	578
1.5	4361	1.1	1181.8	32375	F704_1182 S2 ME2SB4	572	F704_1182 P80 BE80B4	570
1.5	4230	1.9	1146.2	41715	F804_1146 S2 ME2SB4	580	F804_1146 P80 BE80B4	578
1.6	4025	1.2	1090.9	32375	F704_1091 S2 ME2SB4	572	F704_1091 P80 BE80B4	570
1.6	3904	2.0	1058.1	41715	F804_1058 S2 ME2SB4	580	F804_1058 P80 BE80B4	578
1.8	3595	1.4	974.4	32375	F704_974.4 S2 ME2SB4	572	F704_974.4 P80 BE80B4	570
1.8	3587	2.2	972.0	41715	F804_972.0 S2 ME2SB4	580	F804_972.0 P80 BE80B4	578
1.9	3319	1.5	899.4	32375	F704_899.4 S2 ME2SB4	572	F704_899.4 P80 BE80B4	570
1.9	3311	2.4	897.3	41715	F804_897.3 S2 ME2SB4	580	F804_897.3 P80 BE80B4	578
2.1	3034	1.6	822.2	32375	F704_822.2 S2 ME2SB4	572	F704_822.2 P80 BE80B4	570
2.1	3022	1.0	819.0	18500	F604_819.0 S2 ME2SB4	562	F604_819.0 P80 BE80B4	560
2.3	2858	2.8	774.4	41715	F804_774.4 S2 ME2SB4	580	F804_774.4 P80 BE80B4	578
2.3	2801	1.8	759.0	32375	F704_759.0 S2 ME2SB4	572	F704_759.0 P80 BE80B4	570
2.3	2790	1.0	756.0	18500	F604_756.0 S2 ME2SB4	562	F604_756.0 P80 BE80B4	560
2.6	2444	1.2	662.4	18500	F604_662.4 S2 ME2SB4	562	F604_662.4 P80 BE80B4	560
2.7	2426	2.1	657.4	32375	F704_657.4 S2 ME2SB4	572	F704_657.4 P80 BE80B4	570
2.9	2256	1.3	611.4	18500	F604_611.4 S2 ME2SB4	562	F604_611.4 P80 BE80B4	560
2.9	2239	2.2	606.8	32375	F704_606.8 S2 ME2SB4	572	F704_606.8 P80 BE80B4	570
3.3	1958	1.5	530.7	18500	F604_530.7 S2 ME2SB4	562	F604_530.7 P80 BE80B4	560
3.3	1958	0.9	530.5	10065	F514_530.5 S2 ME2SB4	552	F514_530.5 P80 BE80B4	550









## 0.75 kW



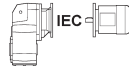

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
3.4	1883	2.7	510.4	32375	F704_510.4 S2 ME2SB4	572	F704_510.4 P80 BE80B4	570
3.6	1808	1.6	489.8	18500	F604_489.8 S2 ME2SB4	562	F604_489.8 P80 BE80B4	560
3.7	1739	2.9	471.2	32375	F704_471.2 S2 ME2SB4	572	F704_471.2 P80 BE80B4	570
4.0	1596	1.8	432.6	18500	F604_432.6 S2 ME2SB4	562	F604_432.6 P80 BE80B4	560
4.1	1583	1.1	429.1	10980	F514_429.1 S2 ME2SB4	552	F514_429.1 P80 BE80B4	550
4.4	1474	2.0	399.3	18500	F604_399.3 S2 ME2SB4	562	F604_399.3 P80 BE80B4	560
5.0	1344	1.3	352.5	10980	F513_352.5 S2 ME2SB4	552	F513_352.5 P80 BE80B4	550
5.1	1261	2.3	341.7	18500	F604_341.7 S2 ME2SB4	562	F604_341.7 P80 BE80B4	560
5.5	1210	1.5	317.3	10980	F513_317.3 S2 ME2SB4	552	F513_317.3 P80 BE80B4	550
5.5	1164	2.5	315.4	18500	F604_315.4 S2 ME2SB4	562	F604_315.4 P80 BE80B4	560
5.9	1131	1.0	296.6	7795	F413_296.6 S2 ME2SB4	542	F413_296.6 P80 BE80B4	540
6.1	1090	1.7	285.9	10980	F513_285.9 S2 ME2SB4	552	F513_285.9 P80 BE80B4	550
6.2	1070	2.7	280.7	18500	F603_280.7 S2 ME2SB4	562	F603_280.7 P80 BE80B4	560
6.5	1018	1.1	266.9	7795	F413_266.9 S2 ME2SB4	542	F413_266.9 P80 BE80B4	540
6.7	999	1.8	262.1	10980	F513_262.1 S2 ME2SB4	552	F513_262.1 P80 BE80B4	550
6.7	988	2.9	259.1	18500	F603_259.1 S2 ME2SB4	562	F603_259.1 P80 BE80B4	560
7.3	916	1.2	240.1	7795	F413_240.1 S2 ME2SB4	542	F413_240.1 P80 BE80B4	540
7.3	915	2.0	239.8	10980	F513_239.8 S2 ME2SB4	552	F513_239.8 P80 BE80B4	550
7.9	839	1.3	220.1	7795	F413_220.1 S2 ME2SB4	542	F413_220.1 P80 BE80B4	540
8.0	827	2.2	216.9	10980	F513_216.9 S2 ME2SB4	552	F513_216.9 P80 BE80B4	550
8.6	772	2.3	202.4	10980	F513_202.4 S2 ME2SB4	552	F513_202.4 P80 BE80B4	550
8.8	758	1.5	198.9	7795	F413_198.9 S2 ME2SB4	542	F413_198.9 P80 BE80B4	540
9.7	689	1.6	180.7	7795	F413_180.7 S2 ME2SB4	542	F413_180.7 P80 BE80B4	540
10.3	643	1.7	168.7	7795	F413_168.7 S2 ME2SB4	542	F413_168.7 P80 BE80B4	540
10.5	636	0.9	166.8	5404	F313_166.8 S2 ME2SB4	532	F313_166.8 P80 BE80B4	530
10.5	632	2.9	165.6	10980	F513_165.6 S2 ME2SB4	552	F513_165.6 P80 BE80B4	550
11.6	575	1.0	150.8	5954	F313_150.8 S2 ME2SB4	532	F313_150.8 P80 BE80B4	530
12.4	537	1.1	140.7	5954	F313_140.7 S2 ME2SB4	532	F313_140.7 P80 BE80B4	530
13.0	512	2.1	134.4	7795	F413_134.4 S2 ME2SB4	542	F413_134.4 P80 BE80B4	540
13.6	489	1.2	128.4	5954	F313_128.4 S2 ME2SB4	532	F313_128.4 P80 BE80B4	530
15.4	431	0.9	113.0	5078	F253_113.0 S2 ME2SB4	522	F253_113.0 P80 BE80B4	520
15.5	429	1.4	112.5	5954	F313_112.5 S2 ME2SB4	532	F313_112.5 P80 BE80B4	530
16.5	404	2.7	106.0	7795	F413_106.0 S2 ME2SB4	542	F413_106.0 P80 BE80B4	540
16.6	402	1.0	105.4	5124	F253_105.4 S2 ME2SB4	522	F253_105.4 P80 BE80B4	520
17.1	388	1.5	101.9	5954	F313_101.9 S2 ME2SB4	532	F313_101.9 P80 BE80B4	530
18.3	364	1.1	95.5	4987	F253_95.5 S2 ME2SB4	522	F253_95.5 P80 BE80B4	520
20.0	333	1.7	87.4	5954	F313_87.4 S2 ME2SB4	532	F313_87.4 P80 BE80B4	530
20.9	318	1.3	83.4	4895	F253_83.4 S2 ME2SB4	522	F253_83.4 P80 BE80B4	520
22.1	301	1.8	78.9	5954	F313_78.9 S2 ME2SB4	532	F313_78.9 P80 BE80B4	530
22.8	292	1.4	76.6	4850	F253_76.6 S2 ME2SB4	522	F253_76.6 P80 BE80B4	520
25.2	269	0.9	69.1	3301	F202_69.1 S2 ME2SB4	512	F202_69.1 P80 BE80B4	510
25.3	263	2.1	69.1	5954	F313_69.1 S2 ME2SB4	532	F313_69.1 P80 BE80B4	530
26.7	249	1.5	65.3	4740	F253_65.3 S2 ME2SB4	522	F253_65.3 P80 BE80B4	520
27.8	239	2.3	62.8	5954	F313_62.8 S2 ME2SB4	532	F313_62.8 P80 BE80B4	530
28.2	241	1.0	61.9	3393	F202_61.9 S2 ME2SB4	512	F202_61.9 P80 BE80B4	510
29.9	222	1.7	58.3	4648	F253_58.3 S2 ME2SB4	522	F253_58.3 P80 BE80B4	520
31	221	1.1	56.7	3292	F202_56.7 S2 ME2SB4	512	F202_56.7 P80 BE80B4	510
33	199	2.7	52.1	5954	F313_52.1 S2 ME2SB4	532	F313_52.1 P80 BE80B4	530
34	194	1.9	50.8	4538	F253_50.8 S2 ME2SB4	522	F253_50.8 P80 BE80B4	520
34	198	1.2	50.7	3219	F202_50.7 S2 ME2SB4	512	F202_50.7 P80 BE80B4	510
38	174	2.1	45.6	4447	F253_45.6 S2 ME2SB4	522	F253_45.6 P80 BE80B4	520
39	175	1.3	44.8	3136	F202_44.8 S2 ME2SB4	512	F202_44.8 P80 BE80B4	510
39	173	2.1	44.4	4474	F252_44.4 S2 ME2SB4	522	F252_44.4 P80 BE80B4	520
42	163	1.4	41.8	3090	F202_41.8 S2 ME2SB4	512	F202_41.8 P80 BE80B4	510
43	159	2.2	40.7	4383	F252_40.7 S2 ME2SB4	522	F252_40.7 P80 BE80B4	520
44	154	0.9	39.6	2349	F102_39.6 S2 ME2SB4	502	F102_39.6 P80 BE80B4	500
46	148	1.6	37.9	3026	F202_37.9 S2 ME2SB4	512	F202_37.9 P80 BE80B4	510
48	142	2.6	36.4	4282	F252_36.4 S2 ME2SB4	522	F252_36.4 P80 BE80B4	520
49	138	1.0	35.3	2395	F102_35.3 S2 ME2SB4	502	F102_35.3 P80 BE80B4	500
53	129	1.8	33.1	2934	F202_33.1 S2 ME2SB4	512	F202_33.1 P80 BE80B4	510
53	128	1.1	33.0	2441	F102_33.0 S2 ME2SB4	502	F102_33.0 P80 BE80B4	500
54	125	3.0	32.2	4154	F252_32.2 S2 ME2SB4	522	F252_32.2 P80 BE80B4	520
57	118	1.9	30.4	2879	F202_30.4 S2 ME2SB4	512	F202_30.4 P80 BE80B4	510
59	115	1.1	29.6	2349	F102_29.6 S2 ME2SB4	502	F102_29.6 P80 BE80B4	500
67	101	2.2	25.9	2769	F202_25.9 S2 ME2SB4	512	F202_25.9 P80 BE80B4	510



## 0.75 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
68	100	1.3	25.8	2275	F102_25.8 S2 ME2SB4	502	F102_25.8 P80 BE80B4	500
75	90	2.4	23.1	2687	F202_23.1 S2 ME2SB4	512	F202_23.1 P80 BE80B4	510
76	89	1.4	22.8	2210	F102_22.8 S2 ME2SB4	502	F102_22.8 P80 BE80B4	500
87	78	2.6	20.2	2595	F202_20.2 S2 ME2SB4	512	F202_20.2 P80 BE80B4	510
90	75	1.7	19.3	2128	F102_19.3 S2 ME2SB4	502	F102_19.3 P80 BE80B4	500
97	70	2.8	18.1	2513	F202_18.1 S2 ME2SB4	512	F202_18.1 P80 BE80B4	510
103	66	1.8	17.0	2054	F102_17.0 S2 ME2SB4	502	F102_17.0 P80 BE80B4	500
119	57	1.9	14.6	1980	F102_14.6 S2 ME2SB4	502	F102_14.6 P80 BE80B4	500
134	51	1.9	13.0	1906	F102_13.0 S2 ME2SB4	502	F102_13.0 P80 BE80B4	500
151	45	2.0	11.5	1851	F102_11.5 S2 ME2SB4	502	F102_11.5 P80 BE80B4	500
179	38	2.1	9.8	1768	F102_9.8 S2 ME2SB4	502	F102_9.8 P80 BE80B4	500
203	33	2.2	8.6	1704	F102_8.6 S2 ME2SB4	502	F102_8.6 P80 BE80B4	500
236	29	2.4	7.4	1630	F102_7.4 S2 ME2SB4	502	F102_7.4 P80 BE80B4	500



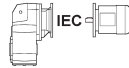

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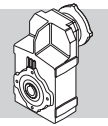
n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
0.83	11333	1.2	2098.7	50930	F904_2099 S3 ME3SA4	588	F904_2099 P90 BE90S4	586
0.90	10461	1.3	1937.3	50930	F904_1937 S3 ME3SA4	588	F904_1937 P90 BE90S4	586
1.0	9193	1.5	1702.3	50930	F904_1702 S3 ME3SA4	588	F904_1702 P90 BE90S4	586
1.1	8519	0.9	1577.6	41715	F804_1578 S3 ME3SA4	580	F804_1578 P90 BE90S4	578
1.1	8485	1.6	1571.4	50930	F904_1571 S3 ME3SA4	588	F904_1571 P90 BE90S4	586
1.2	7711	1.8	1427.9	50930	F904_1428 S3 ME3SA4	588	F904_1428 P90 BE90S4	586
1.3	7472	1.1	1383.8	41715	F804_1384 S3 ME3SA4	580	F804_1384 P90 BE90S4	578
1.3	7118	2.0	1318.1	50930	F904_1318 S3 ME3SA4	588	F904_1318 P90 BE90S4	586
1.4	6898	1.2	1277.3	41715	F804_1277 S3 ME3SA4	580	F804_1277 P90 BE90S4	578
1.4	6507	2.2	1204.9	50930	F904_1205 S3 ME3SA4	588	F904_1205 P90 BE90S4	586
1.5	6190	1.3	1146.2	41715	F804_1146 S3 ME3SA4	580	F804_1146 P90 BE90S4	578
1.6	6006	2.3	1112.3	50930	F904_1112 S3 ME3SA4	588	F904_1112 P90 BE90S4	586
1.6	5714	1.4	1058.1	41715	F804_1058 S3 ME3SA4	580	F804_1058 P90 BE90S4	578
1.8	5325	2.6	986.0	50930	F904_986.0 S3 ME3SA4	588	F904_986.0 P90 BE90S4	586
1.8	5262	1.0	974.4	32375	F704_974.4 S3 ME3SA4	572	F704_974.4 P90 BE90S4	570
1.8	5249	1.5	972.0	41715	F804_972.0 S3 ME3SA4	580	F804_972.0 P90 BE90S4	578
1.9	4915	2.8	910.2	50930	F904_910.2 S3 ME3SA4	588	F904_910.2 P90 BE90S4	586
1.9	4857	1.0	899.4	32375	F704_899.4 S3 ME3SA4	572	F704_899.4 P90 BE90S4	570
1.9	4845	1.7	897.3	41715	F804_897.3 S3 ME3SA4	580	F804_897.3 P90 BE90S4	578
2.1	4440	1.1	822.2	32375	F704_822.2 S3 ME3SA4	572	F704_822.2 P90 BE90S4	570
2.2	4182	1.9	774.4	41715	F804_774.4 S3 ME3SA4	580	F804_774.4 P90 BE90S4	578
2.3	4098	1.2	759.0	32375	F704_759.0 S3 ME3SA4	572	F704_759.0 P90 BE90S4	570
2.4	3860	2.1	714.9	41715	F804_714.9 S3 ME3SA4	580	F804_714.9 P90 BE90S4	578
2.6	3550	1.4	657.4	32375	F704_657.4 S3 ME3SA4	572	F704_657.4 P90 BE90S4	570
2.8	3299	2.4	610.9	41715	F804_610.9 S3 ME3SA4	580	F804_610.9 P90 BE90S4	578
2.9	3277	1.5	606.8	32375	F704_606.8 S3 ME3SA4	572	F704_606.8 P90 BE90S4	570
3.1	3045	2.6	563.9	41715	F804_563.9 S3 ME3SA4	580	F804_563.9 P90 BE90S4	578
3.3	2866	1.0	530.7	18500	F604_530.7 S3 ME3SA4	562	F604_530.7 P90 BE90S4	560
3.4	2756	1.8	510.4	32375	F704_510.4 S3 ME3SA4	572	F704_510.4 P90 BE90S4	570
3.6	2645	1.1	489.8	18500	F604_489.8 S3 ME3SA4	562	F604_489.8 P90 BE90S4	560
3.7	2544	2.0	471.2	32375	F704_471.2 S3 ME3SA4	572	F704_471.2 P90 BE90S4	570
4.0	2336	1.2	432.6	18500	F604_432.6 S3 ME3SA4	562	F604_432.6 P90 BE90S4	560
4.3	2179	2.3	403.5	32375	F704_403.5 S3 ME3SA4	572	F704_403.5 P90 BE90S4	570
4.4	2156	1.3	399.3	18500	F604_399.3 S3 ME3SA4	562	F604_399.3 P90 BE90S4	560
4.7	2011	2.5	372.5	32375	F704_372.5 S3 ME3SA4	572	F704_372.5 P90 BE90S4	570
4.9	1967	0.9	352.5	10065	F513_352.5 S3 ME3SA4	552	F513_352.5 P90 BE90S4	550
5.1	1845	1.6	341.7	18500	F604_341.7 S3 ME3SA4	562	F604_341.7 P90 BE90S4	560
5.5	1770	1.0	317.3	10980	F513_317.3 S3 ME3SA4	552	F513_317.3 P90 BE90S4	550
5.5	1703	1.7	315.4	18500	F604_315.4 S3 ME3SA4	562	F604_315.4 P90 BE90S4	560









## 1.1 kW



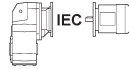

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
6.1	1596	1.1	285.9	10980	F513_285.9 S3 ME3SA4	552	F513_285.9 P90 BE90S4	550
6.2	1566	1.9	280.7	18500	F603_280.7 S3 ME3SA4	562	F603_280.7 P90 BE90S4	560
6.6	1463	1.2	262.1	10980	F513_262.1 S3 ME3SA4	552	F513_262.1 P90 BE90S4	550
6.7	1446	2.0	259.1	18500	F603_259.1 S3 ME3SA4	562	F603_259.1 P90 BE90S4	560
7.3	1338	1.3	239.8	10980	F513_239.8 S3 ME3SA4	552	F513_239.8 P90 BE90S4	550
7.4	1316	2.2	235.8	18500	F603_235.8 S3 ME3SA4	562	F603_235.8 P90 BE90S4	560
8.0	1214	2.4	217.6	18500	F603_217.6 S3 ME3SA4	562	F603_217.6 P90 BE90S4	560
8.0	1210	1.5	216.9	10980	F513_216.9 S3 ME3SA4	552	F513_216.9 P90 BE90S4	550
8.6	1129	1.6	202.4	10980	F513_202.4 S3 ME3SA4	552	F513_202.4 P90 BE90S4	550
8.6	1124	2.6	201.4	18500	F603_201.4 S3 ME3SA4	562	F603_201.4 P90 BE90S4	560
8.7	1110	1.0	198.9	7795	F413_198.9 S3 ME3SA4	542	F413_198.9 P90 BE90S4	540
9.4	1037	2.8	185.9	18500	F603_185.9 S3 ME3SA4	562	F603_185.9 P90 BE90S4	560
9.6	1009	1.1	180.7	7795	F413_180.7 S3 ME3SA4	542	F413_180.7 P90 BE90S4	540
10.3	941	1.2	168.7	7795	F413_168.7 S3 ME3SA4	542	F413_168.7 P90 BE90S4	540
10.5	924	1.9	165.6	10980	F513_165.6 S3 ME3SA4	552	F513_165.6 P90 BE90S4	550
12.9	750	1.5	134.4	7795	F413_134.4 S3 ME3SA4	542	F413_134.4 P90 BE90S4	540
13.4	725	2.5	129.9	10980	F513_129.9 S3 ME3SA4	552	F513_129.9 P90 BE90S4	550
15.5	628	0.9	112.5	5404	F313_112.5 S3 ME3SA4	532	F313_112.5 P90 BE90S4	530
16.4	592	1.9	106.0	7795	F413_106.0 S3 ME3SA4	542	F413_106.0 P90 BE90S4	540
17.1	569	1.0	101.9	5954	F313_101.9 S3 ME3SA4	532	F313_101.9 P90 BE90S4	530
19.9	488	1.1	87.4	5954	F313_87.4 S3 ME3SA4	532	F313_87.4 P90 BE90S4	530
20.5	474	2.2	84.9	7795	F413_84.9 S3 ME3SA4	542	F413_84.9 P90 BE90S4	540
22.1	440	1.3	78.9	5954	F313_78.9 S3 ME3SA4	532	F313_78.9 P90 BE90S4	530
22.7	427	0.9	76.6	4282	F253_76.6 S3 ME3SA4	522	F253_76.6 P90 BE90S4	520
25.2	385	1.4	69.1	5954	F313_69.1 S3 ME3SA4	532	F313_69.1 P90 BE90S4	530
26.2	371	2.7	66.5	7795	F413_66.5 S3 ME3SA4	542	F413_66.5 P90 BE90S4	540
26.6	365	1.0	65.3	4218	F253_65.3 S3 ME3SA4	522	F253_65.3 P90 BE90S4	520
27.7	350	1.6	62.8	5954	F313_62.8 S3 ME3SA4	532	F313_62.8 P90 BE90S4	530
29.8	326	1.1	58.3	4118	F253_58.3 S3 ME3SA4	522	F253_58.3 P90 BE90S4	520
33	291	1.8	52.1	5954	F313_52.1 S3 ME3SA4	532	F313_52.1 P90 BE90S4	530
34	283	1.3	50.8	4072	F253_50.8 S3 ME3SA4	522	F253_50.8 P90 BE90S4	520
37	265	2.2	47.5	5954	F313_47.5 S3 ME3SA4	532	F313_47.5 P90 BE90S4	530
38	254	1.5	45.6	4026	F253_45.6 S3 ME3SA4	522	F253_45.6 P90 BE90S4	520
39	256	0.9	44.8	2779	F202_44.8 S3 ME3SA4	512	F202_44.8 P90 BE90S4	510
39	254	2.2	44.6	5954	F312_44.6 S3 ME3SA4	532	F312_44.6 P90 BE90S4	530
39	253	1.4	44.4	4090	F252_44.4 S3 ME3SA4	522	F252_44.4 P90 BE90S4	520
42	238	1.0	41.8	2843	F202_41.8 S3 ME3SA4	512	F202_41.8 P90 BE90S4	510
43	232	1.5	40.7	4035	F252_40.7 S3 ME3SA4	522	F252_40.7 P90 BE90S4	520
43	230	2.4	40.4	5954	F312_40.4 S3 ME3SA4	532	F312_40.4 P90 BE90S4	530
46	216	1.1	37.9	2797	F202_37.9 S3 ME3SA4	512	F202_37.9 P90 BE90S4	510
46	215	2.6	37.7	5954	F312_37.7 S3 ME3SA4	532	F312_37.7 P90 BE90S4	530
48	208	1.8	36.4	3962	F252_36.4 S3 ME3SA4	522	F252_36.4 P90 BE90S4	520
51	196	2.8	34.4	5954	F312_34.4 S3 ME3SA4	532	F312_34.4 P90 BE90S4	530
53	189	1.2	33.1	2733	F202_33.1 S3 ME3SA4	512	F202_33.1 P90 BE90S4	510
54	183	2.0	32.2	3880	F252_32.2 S3 ME3SA4	522	F252_32.2 P90 BE90S4	520
57	173	1.3	30.4	2687	F202_30.4 S3 ME3SA4	512	F202_30.4 P90 BE90S4	510
58	171	2.2	30.0	3834	F252_30.0 S3 ME3SA4	522	F252_30.0 P90 BE90S4	520
64	155	2.4	27.2	3752	F252_27.2 S3 ME3SA4	522	F252_27.2 P90 BE90S4	520
67	148	1.5	25.9	2604	F202_25.9 S3 ME3SA4	512	F202_25.9 P90 BE90S4	510
73	135	2.8	23.8	3651	F252_23.8 S3 ME3SA4	522	F252_23.8 P90 BE90S4	520
75	132	1.6	23.1	2549	F202_23.1 S3 ME3SA4	512	F202_23.1 P90 BE90S4	510
76	130	1.0	22.8	1934	F102_22.8 S3 ME3SA4	502	F102_22.8 P90 BE90S4	500
80	124	3.0	21.8	3587	F252_21.8 S3 ME3SA4	522	F252_21.8 P90 BE90S4	520
86	115	1.8	20.2	2467	F202_20.2 S3 ME3SA4	512	F202_20.2 P90 BE90S4	510
90	110	1.1	19.3	1999	F102_19.3 S3 ME3SA4	502	F102_19.3 P90 BE90S4	500
96	103	1.9	18.1	2403	F202_18.1 S3 ME3SA4	512	F202_18.1 P90 BE90S4	510
102	97	1.2	17.0	1943	F102_17.0 S3 ME3SA4	502	F102_17.0 P90 BE90S4	500
118	84	2.2	14.8	2293	F202_14.8 S3 ME3SA4	512	F202_14.8 P90 BE90S4	510
119	83	1.3	14.6	1888	F102_14.6 S3 ME3SA4	502	F102_14.6 P90 BE90S4	500
134	74	1.3	13.0	1824	F102_13.0 S3 ME3SA4	502	F102_13.0 P90 BE90S4	500

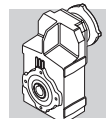


## 1.1 kW


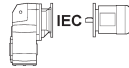

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
151	66	1.3	11.5	1768	F102_11.5 S3 ME3SA4	502	F102_11.5 P90 BE90S4	500
155	64	2.5	11.2	2118	F202_11.2 S3 ME3SA4	512	F202_11.2 P90 BE90S4	510
173	57	2.7	10.0	2017	F202_10.0 S3 ME3SA4	512	F202_10.0 P90 BE90S4	510
178	56	1.5	9.8	1695	F102_9.8 S3 ME3SA4	502	F102_9.8 P90 BE90S4	500
199	50	2.9	8.7	1981	F202_8.7 S3 ME3SA4	512	F202_8.7 P90 BE90S4	510
203	49	1.5	8.6	1639	F102_8.6 S3 ME3SA4	502	F102_8.6 P90 BE90S4	500
222	45	3.0	7.8	1926	F202_7.8 S3 ME3SA4	512	F202_7.8 P90 BE90S4	510
235	42	1.7	7.4	1584	F102_7.4 S3 ME3SA4	502	F102_7.4 P90 BE90S4	500

## 1.5 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
0.83	15488	0.9	2098.7	50930	F904_2099 S3 ME3SB4	588	F904_2099 P90 BE90LA4	586
0.90	14297	1.0	1937.3	50930	F904_1937 S3 ME3SB4	588	F904_1937 P90 BE90LA4	586
1.0	12563	1.1	1702.3	50930	F904_1702 S3 ME3SB4	588	F904_1702 P90 BE90LA4	586
1.1	11597	1.2	1571.4	50930	F904_1571 S3 ME3SB4	588	F904_1571 P90 BE90LA4	586
1.2	10538	1.3	1427.9	50930	F904_1428 S3 ME3SB4	588	F904_1428 P90 BE90LA4	586
1.3	9727	1.4	1318.1	50930	F904_1318 S3 ME3SB4	588	F904_1318 P90 BE90LA4	586
1.4	8893	1.6	1204.9	50930	F904_1205 S3 ME3SB4	588	F904_1205 P90 BE90LA4	586
1.5	8459	0.9	1146.2	41715	F804_1146 S3 ME3SB4	580	F804_1146 P90 BE90LA4	578
1.6	8208	1.7	1112.3	50930	F904_1112 S3 ME3SB4	588	F904_1112 P90 BE90LA4	586
1.6	7809	1.0	1058.1	41715	F804_1058 S3 ME3SB4	580	F804_1058 P90 BE90LA4	578
1.8	7277	1.9	986.0	50930	F904_986.0 S3 ME3SB4	588	F904_986.0 P90 BE90LA4	586
1.8	7174	1.1	972.0	41715	F804_972.0 S3 ME3SB4	580	F804_972.0 P90 BE90LA4	578
1.9	6717	2.1	910.2	50930	F904_910.2 S3 ME3SB4	588	F904_910.2 P90 BE90LA4	586
1.9	6622	1.2	897.3	41715	F804_897.3 S3 ME3SB4	580	F804_897.3 P90 BE90LA4	578
2.2	5715	1.4	774.4	41715	F804_774.4 S3 ME3SB4	580	F804_774.4 P90 BE90LA4	578
2.2	5708	2.5	773.4	50930	F904_773.4 S3 ME3SB4	588	F904_773.4 P90 BE90LA4	586
2.4	5276	1.5	714.9	41715	F804_714.9 S3 ME3SB4	580	F804_714.9 P90 BE90LA4	578
2.4	5269	2.7	714.0	50930	F904_714.0 S3 ME3SB4	588	F904_714.0 P90 BE90LA4	586
2.6	4852	1.0	657.4	32375	F704_657.4 S3 ME3SB4	572	F704_657.4 P90 BE90LA4	570
2.8	4508	1.8	610.9	41715	F804_610.9 S3 ME3SB4	580	F804_610.9 P90 BE90LA4	578
2.9	4478	1.1	606.8	32375	F704_606.8 S3 ME3SB4	572	F704_606.8 P90 BE90LA4	570
3.1	4161	1.9	563.9	41715	F804_563.9 S3 ME3SB4	580	F804_563.9 P90 BE90LA4	578
3.4	3767	1.3	510.4	32375	F704_510.4 S3 ME3SB4	572	F704_510.4 P90 BE90LA4	570
3.6	3610	2.2	489.1	41715	F804_489.1 S3 ME3SB4	580	F804_489.1 P90 BE90LA4	578
3.7	3477	1.4	471.2	32375	F704_471.2 S3 ME3SB4	572	F704_471.2 P90 BE90LA4	570
3.9	3332	2.4	451.5	41715	F804_451.5 S3 ME3SB4	580	F804_451.5 P90 BE90LA4	578
4.0	3193	0.9	432.6	18500	F604_432.6 S3 ME3SB4	562	F604_432.6 P90 BE90LA4	560
4.3	2978	1.7	403.5	32375	F704_403.5 S3 ME3SB4	572	F704_403.5 P90 BE90LA4	570
4.4	2947	1.0	399.3	18500	F604_399.3 S3 ME3SB4	562	F604_399.3 P90 BE90LA4	560
4.5	2828	2.8	383.2	41715	F804_383.2 S3 ME3SB4	580	F804_383.2 P90 BE90LA4	578
4.7	2749	1.8	372.5	32375	F704_372.5 S3 ME3SB4	572	F704_372.5 P90 BE90LA4	570
5.1	2522	1.2	341.7	18500	F604_341.7 S3 ME3SB4	562	F604_341.7 P90 BE90LA4	560
5.5	2328	1.2	315.4	18500	F604_315.4 S3 ME3SB4	562	F604_315.4 P90 BE90LA4	560
5.7	2246	2.2	304.3	32375	F704_304.3 S3 ME3SB4	572	F704_304.3 P90 BE90LA4	570
6.2	2073	2.4	280.9	32375	F704_280.9 S3 ME3SB4	572	F704_280.9 P90 BE90LA4	570
6.2	2140	1.4	280.7	18500	F603_280.7 S3 ME3SB4	562	F603_280.7 P90 BE90LA4	560
6.6	1999	0.9	262.1	10065	F513_262.1 S3 ME3SB4	552	F513_262.1 P90 BE90LA4	550
6.7	1976	1.5	259.1	18500	F603_259.1 S3 ME3SB4	562	F603_259.1 P90 BE90LA4	560
7.3	1829	1.0	239.8	10980	F513_239.8 S3 ME3SB4	552	F513_239.8 P90 BE90LA4	550
7.4	1798	1.6	235.8	18500	F603_235.8 S3 ME3SB4	562	F603_235.8 P90 BE90LA4	560
7.4	1731	2.9	234.6	32375	F704_234.6 S3 ME3SB4	572	F704_234.6 P90 BE90LA4	570
8.0	1660	1.7	217.6	18500	F603_217.6 S3 ME3SB4	562	F603_217.6 P90 BE90LA4	560
8.0	1654	1.1	216.9	10980	F513_216.9 S3 ME3SB4	552	F513_216.9 P90 BE90LA4	550





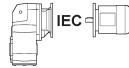

## 1.5 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
8.6	1543	1.2	202.4	10980	F513_202.4 S3 ME3SB4	552	F513_202.4 P90 BE90LA4	550
8.6	1536	1.9	201.4	18500	F603_201.4 S3 ME3SB4	562	F603_201.4 P90 BE90LA4	560
9.4	1418	2.0	185.9	18500	F603_185.9 S3 ME3SB4	562	F603_185.9 P90 BE90LA4	560
10.5	1263	1.4	165.6	10980	F513_165.6 S3 ME3SB4	552	F513_165.6 P90 BE90LA4	550
10.7	1242	2.3	162.9	18500	F603_162.9 S3 ME3SB4	562	F603_162.9 P90 BE90LA4	560
11.6	1147	2.5	150.4	18500	F603_150.4 S3 ME3SB4	562	F603_150.4 P90 BE90LA4	560
12.9	1025	1.1	134.4	7795	F413_134.4 S3 ME3SB4	542	F413_134.4 P90 BE90LA4	540
13.3	995	2.9	130.5	18500	F603_130.5 S3 ME3SB4	562	F603_130.5 P90 BE90LA4	560
13.4	991	1.8	129.9	10980	F513_129.9 S3 ME3SB4	552	F513_129.9 P90 BE90LA4	550
16.4	808	1.4	106.0	7795	F413_106.0 S3 ME3SB4	542	F413_106.0 P90 BE90LA4	540
16.6	801	2.2	105.1	10980	F513_105.1 S3 ME3SB4	552	F513_105.1 P90 BE90LA4	550
20.5	647	1.6	84.9	7795	F413_84.9 S3 ME3SB4	542	F413_84.9 P90 BE90LA4	540
20.9	635	2.8	83.2	10980	F513_83.2 S3 ME3SB4	552	F513_83.2 P90 BE90LA4	550
22.1	601	0.9	78.9	5404	F313_78.9 S3 ME3SB4	532	F313_78.9 P90 BE90LA4	530
25.2	527	1.1	69.1	5954	F313_69.1 S3 ME3SB4	532	F313_69.1 P90 BE90LA4	530
26.2	507	2.0	66.5	7795	F413_66.5 S3 ME3SB4	542	F413_66.5 P90 BE90LA4	540
27.7	479	1.2	62.8	5954	F313_62.8 S3 ME3SB4	532	F313_62.8 P90 BE90LA4	530
28.9	459	2.2	60.2	7795	F413_60.2 S3 ME3SB4	542	F413_60.2 P90 BE90LA4	540
33	397	1.4	52.1	5954	F313_52.1 S3 ME3SB4	532	F313_52.1 P90 BE90LA4	530
34	393	2.6	51.5	7795	F413_51.5 S3 ME3SB4	542	F413_51.5 P90 BE90LA4	540
34	387	1.0	50.8	3706	F253_50.8 S3 ME3SB4	522	F253_50.8 P90 BE90LA4	520
36	373	2.7	47.9	7795	F412_47.9 S3 ME3SB4	542	F412_47.9 P90 BE90LA4	540
37	363	1.6	47.5	5954	F313_47.5 S3 ME3SB4	532	F313_47.5 P90 BE90LA4	530
38	347	1.1	45.6	3550	F253_45.6 S3 ME3SB4	522	F253_45.6 P90 BE90LA4	520
39	348	1.6	44.6	5954	F312_44.6 S3 ME3SB4	532	F312_44.6 P90 BE90LA4	530
39	346	1.0	44.4	3825	F252_44.4 S3 ME3SB4	522	F252_44.4 P90 BE90LA4	520
43	317	1.1	40.7	3633	F252_40.7 S3 ME3SB4	522	F252_40.7 P90 BE90LA4	520
43	314	1.8	40.4	5954	F312_40.4 S3 ME3SB4	532	F312_40.4 P90 BE90LA4	530
46	293	1.9	37.7	5954	F312_37.7 S3 ME3SB4	532	F312_37.7 P90 BE90LA4	530
48	284	1.3	36.4	3605	F252_36.4 S3 ME3SB4	522	F252_36.4 P90 BE90LA4	520
51	268	2.1	34.4	5954	F312_34.4 S3 ME3SB4	532	F312_34.4 P90 BE90LA4	530
54	251	1.5	32.2	3559	F252_32.2 S3 ME3SB4	522	F252_32.2 P90 BE90LA4	520
57	237	1.0	30.4	2476	F202_30.4 S3 ME3SB4	512	F202_30.4 P90 BE90LA4	510
58	235	2.4	30.1	5954	F312_30.1 S3 ME3SB4	532	F312_30.1 P90 BE90LA4	530
58	234	1.6	30.0	3532	F252_30.0 S3 ME3SB4	522	F252_30.0 P90 BE90LA4	520
64	212	2.6	27.3	5954	F312_27.3 S3 ME3SB4	532	F312_27.3 P90 BE90LA4	530
64	212	1.8	27.2	3486	F252_27.2 S3 ME3SB4	522	F252_27.2 P90 BE90LA4	520
67	202	1.1	25.9	2421	F202_25.9 S3 ME3SB4	512	F202_25.9 P90 BE90LA4	510
73	185	2.0	23.8	3413	F252_23.8 S3 ME3SB4	522	F252_23.8 P90 BE90LA4	520
75	180	1.2	23.1	2384	F202_23.1 S3 ME3SB4	512	F202_23.1 P90 BE90LA4	510
80	170	2.2	21.8	3367	F252_21.8 S3 ME3SB4	522	F252_21.8 P90 BE90LA4	520
86	157	1.3	20.2	2320	F202_20.2 S3 ME3SB4	512	F202_20.2 P90 BE90LA4	510
93	145	2.6	18.6	3267	F252_18.6 S3 ME3SB4	522	F252_18.6 P90 BE90LA4	520
96	141	1.4	18.1	2274	F202_18.1 S3 ME3SB4	512	F202_18.1 P90 BE90LA4	510
105	129	2.9	16.6	3193	F252_16.6 S3 ME3SB4	522	F252_16.6 P90 BE90LA4	520
118	115	1.6	14.8	2182	F202_14.8 S3 ME3SB4	512	F202_14.8 P90 BE90LA4	510
119	114	1.0	14.6	1750	F102_14.6 S3 ME3SB4	502	F102_14.6 P90 BE90LA4	500
134	101	0.9	13.0	1612	F102_13.0 S3 ME3SB4	502	F102_13.0 P90 BE90LA4	500
151	90	1.0	11.5	1068	F102_11.5 S3 ME3SB4	502	F102_11.5 P90 BE90LA4	500
155	88	1.9	11.2	2036	F202_11.2 S3 ME3SB4	512	F202_11.2 P90 BE90LA4	510
173	78	1.9	10.0	1981	F202_10.0 S3 ME3SB4	512	F202_10.0 P90 BE90LA4	510
178	76	1.1	9.8	1621	F102_9.8 S3 ME3SB4	502	F102_9.8 P90 BE90LA4	500
199	68	2.1	8.7	1917	F202_8.7 S3 ME3SB4	512	F202_8.7 P90 BE90LA4	510
203	67	1.1	8.6	1575	F102_8.6 S3 ME3SB4	502	F102_8.6 P90 BE90LA4	500
222	61	2.2	7.8	1862	F202_7.8 S3 ME3SB4	512	F202_7.8 P90 BE90LA4	510
235	58	1.2	7.4	1520	F102_7.4 S3 ME3SB4	502	F102_7.4 P90 BE90LA4	500
271	50	2.4	6.4	1770	F202_6.4 S3 ME3SB4	512	F202_6.4 P90 BE90LA4	510





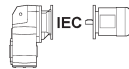



## 2.2 kW



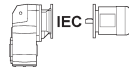

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
1.2	15421	0.9	1427.9	50930	F904_1428 S3 ME3LA4	588	F904_1428 P100 BE100LA4	586
1.3	14235	1.0	1318.1	50930	F904_1318 S3 ME3LA4	588	F904_1318 P100 BE100LA4	586
1.4	13013	1.1	1204.9	50930	F904_1205 S3 ME3LA4	588	F904_1205 P100 BE100LA4	586
1.6	12012	1.2	1112.3	50930	F904_1112 S3 ME3LA4	588	F904_1112 P100 BE100LA4	586
1.8	10649	1.3	986.0	50930	F904_986.0 S3 ME3LA4	588	F904_986.0 P100 BE100LA4	586
1.9	9830	1.4	910.2	50930	F904_910.2 S3 ME3LA4	588	F904_910.2 P100 BE100LA4	586
2.3	8364	1.0	774.4	41715	F804_774.4 S3 ME3LA4	580	F804_774.4 P100 BE100LA4	578
2.3	8353	1.7	773.4	50930	F904_773.4 S3 ME3LA4	588	F904_773.4 P100 BE100LA4	586
2.4	7720	1.0	714.9	41715	F804_714.9 S3 ME3LA4	580	F804_714.9 P100 BE100LA4	578
2.4	7711	1.8	714.0	50930	F904_714.0 S3 ME3LA4	588	F904_714.0 P100 BE100LA4	586
2.8	6757	2.1	625.6	50930	F904_625.6 S3 ME3LA4	588	F904_625.6 P100 BE100LA4	586
2.9	6597	1.2	610.9	41715	F804_610.9 S3 ME3LA4	580	F804_610.9 P100 BE100LA4	578
3.0	6237	2.2	577.5	50930	F904_577.5 S3 ME3LA4	588	F904_577.5 P100 BE100LA4	586
3.1	6090	1.3	563.9	41715	F804_563.9 S3 ME3LA4	580	F804_563.9 P100 BE100LA4	578
3.4	5512	0.9	510.4	32375	F704_510.4 S3 ME3LA4	572	F704_510.4 P100 BE100LA4	570
3.5	5352	2.6	495.6	50930	F904_495.6 S3 ME3LA4	588	F904_495.6 P100 BE100LA4	586
3.6	5282	1.5	489.1	41715	F804_489.1 S3 ME3LA4	580	F804_489.1 P100 BE100LA4	578
3.7	5088	1.0	471.2	32375	F704_471.2 S3 ME3LA4	572	F704_471.2 P100 BE100LA4	570
3.8	4940	2.8	457.5	50930	F904_457.5 S3 ME3LA4	588	F904_457.5 P100 BE100LA4	586
3.9	4876	1.6	451.5	41715	F804_451.5 S3 ME3LA4	580	F804_451.5 P100 BE100LA4	578
4.3	4358	1.1	403.5	32375	F704_403.5 S3 ME3LA4	572	F704_403.5 P100 BE100LA4	570
4.6	4138	1.9	383.2	41715	F804_383.2 S3 ME3LA4	580	F804_383.2 P100 BE100LA4	578
4.7	4023	1.2	372.5	32375	F704_372.5 S3 ME3LA4	572	F704_372.5 P100 BE100LA4	570
4.9	3820	2.1	353.7	41715	F804_353.7 S3 ME3LA4	580	F804_353.7 P100 BE100LA4	578
5.7	3287	1.5	304.3	32375	F704_304.3 S3 ME3LA4	572	F704_304.3 P100 BE100LA4	570
5.9	3205	2.5	296.7	41715	F804_296.7 S3 ME3LA4	580	F804_296.7 P100 BE100LA4	578
6.2	3034	1.6	280.9	32375	F704_280.9 S3 ME3LA4	572	F704_280.9 P100 BE100LA4	570
6.2	3132	0.9	280.7	18500	F603_280.7 S3 ME3LA4	562	F603_280.7 P100 BE100LA4	560
6.4	2958	2.7	273.9	41715	F804_273.9 S3 ME3LA4	580	F804_273.9 P100 BE100LA4	578
6.7	2891	1.0	259.1	18500	F603_259.1 S3 ME3LA4	562	F603_259.1 P100 BE100LA4	560
7.4	2631	1.1	235.8	18500	F603_235.8 S3 ME3LA4	562	F603_235.8 P100 BE100LA4	560
7.4	2533	2.0	234.6	32375	F704_234.6 S3 ME3LA4	572	F704_234.6 P100 BE100LA4	570
8.0	2429	1.2	217.6	18500	F603_217.6 S3 ME3LA4	562	F603_217.6 P100 BE100LA4	560
8.1	2338	2.1	216.5	32375	F704_216.5 S3 ME3LA4	572	F704_216.5 P100 BE100LA4	570
8.7	2247	1.3	201.4	18500	F603_201.4 S3 ME3LA4	562	F603_201.4 P100 BE100LA4	560
8.9	2188	2.3	196.0	32375	F703_196.0 S3 ME3LA4	572	F703_196.0 P100 BE100LA4	570
9.4	2075	1.4	185.9	18500	F603_185.9 S3 ME3LA4	562	F603_185.9 P100 BE100LA4	560
9.6	2019	2.5	180.9	32375	F703_180.9 S3 ME3LA4	572	F703_180.9 P100 BE100LA4	570
10.5	1860	2.7	166.7	32375	F703_166.7 S3 ME3LA4	572	F703_166.7 P100 BE100LA4	570
10.5	1848	1.0	165.6	10980	F513_165.6 S3 ME3LA4	552	F513_165.6 P100 BE100LA4	550
10.7	1818	1.6	162.9	18500	F603_162.9 S3 ME3LA4	562	F603_162.9 P100 BE100LA4	560
11.3	1717	2.9	153.8	32375	F703_153.8 S3 ME3LA4	572	F703_153.8 P100 BE100LA4	570
11.6	1678	1.7	150.4	18500	F603_150.4 S3 ME3LA4	562	F603_150.4 P100 BE100LA4	560
13.4	1456	2.0	130.5	18500	F603_130.5 S3 ME3LA4	562	F603_130.5 P100 BE100LA4	560
13.4	1450	1.2	129.9	10980	F513_129.9 S3 ME3LA4	552	F513_129.9 P100 BE100LA4	550
14.5	1344	2.2	120.5	18500	F603_120.5 S3 ME3LA4	562	F603_120.5 P100 BE100LA4	560
16.4	1187	2.4	106.4	18500	F603_106.4 S3 ME3LA4	562	F603_106.4 P100 BE100LA4	560
16.5	1183	0.9	106.0	7107	F413_106.0 S3 ME3LA4	542	F413_106.0 P100 BE100LA4	540
16.6	1173	1.5	105.1	10980	F513_105.1 S3 ME3LA4	552	F513_105.1 P100 BE100LA4	550
17.8	1096	2.6	98.2	18500	F603_98.2 S3 ME3LA4	562	F603_98.2 P100 BE100LA4	560
20.6	947	1.1	84.9	7795	F413_84.9 S3 ME3LA4	542	F413_84.9 P100 BE100LA4	540
21.0	929	1.9	83.2	10980	F513_83.2 S3 ME3LA4	552	F513_83.2 P100 BE100LA4	550
26.2	742	1.4	66.5	7795	F413_66.5 S3 ME3LA4	542	F413_66.5 P100 BE100LA4	540
26.5	735	2.2	65.8	10980	F513_65.8 S3 ME3LA4	552	F513_65.8 P100 BE100LA4	550



## 2.2 kW





n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
29.0	672	1.5	60.2	7795	F413_60.2 S3 ME3LA4	542	F413_60.2 P100 BE100LA4	540
33	581	0.9	52.1	5404	F313_52.1 S3 ME3LA4	532	F313_52.1 P100 BE100LA4	530
34	575	1.7	51.5	7795	F413_51.5 S3 ME3LA4	542	F413_51.5 P100 BE100LA4	540
36	546	2.8	48.9	10980	F513_48.9 S3 ME3LA4	552	F513_48.9 P100 BE100LA4	550
36	546	1.8	47.9	7795	F412_47.9 S3 ME3LA4	542	F412_47.9 P100 BE100LA4	540
37	531	1.1	47.5	5954	F313_47.5 S3 ME3LA4	532	F313_47.5 P100 BE100LA4	530
39	509	1.1	44.6	5954	F312_44.6 S3 ME3LA4	532	F312_44.6 P100 BE100LA4	530
43	460	1.2	40.4	5954	F312_40.4 S3 ME3LA4	532	F312_40.4 P100 BE100LA4	530
46	435	2.3	38.2	7795	F412_38.2 S3 ME3LA4	542	F412_38.2 P100 BE100LA4	540
46	429	1.3	37.7	5954	F312_37.7 S3 ME3LA4	532	F312_37.7 P100 BE100LA4	530
51	392	1.4	34.4	5945	F312_34.4 S3 ME3LA4	532	F312_34.4 P100 BE100LA4	530
54	367	1.0	32.2	3312	F252_32.2 S3 ME3LA4	522	F252_32.2 P100 BE100LA4	520
58	343	1.6	30.1	5826	F312_30.1 S3 ME3LA4	532	F312_30.1 P100 BE100LA4	530
58	343	3.0	30.1	7795	F412_30.1 S3 ME3LA4	542	F412_30.1 P100 BE100LA4	540
58	342	1.1	30.0	3020	F252_30.0 S3 ME3LA4	522	F252_30.0 P100 BE100LA4	520
64	311	1.8	27.3	5725	F312_27.3 S3 ME3LA4	532	F312_27.3 P100 BE100LA4	530
64	310	1.2	27.2	3020	F252_27.2 S3 ME3LA4	522	F252_27.2 P100 BE100LA4	520
73	271	1.4	23.8	3010	F252_23.8 S3 ME3LA4	522	F252_23.8 P100 BE100LA4	520
75	267	2.1	23.4	5569	F312_23.4 S3 ME3LA4	532	F312_23.4 P100 BE100LA4	530
80	249	1.5	21.8	2992	F252_21.8 S3 ME3LA4	522	F252_21.8 P100 BE100LA4	520
83	241	2.3	21.1	5459	F312_21.1 S3 ME3LA4	532	F312_21.1 P100 BE100LA4	530
94	212	1.8	18.6	2946	F252_18.6 S3 ME3LA4	522	F252_18.6 P100 BE100LA4	520
94	211	2.6	18.5	5304	F312_18.5 S3 ME3LA4	532	F312_18.5 P100 BE100LA4	530
97	206	1.0	18.1	2063	F202_18.1 S3 ME3LA4	512	F202_18.1 P100 BE100LA4	510
104	192	2.9	16.8	5194	F312_16.8 S3 ME3LA4	532	F312_16.8 P100 BE100LA4	530
105	189	2.0	16.6	2910	F252_16.6 S3 ME3LA4	522	F252_16.6 P100 BE100LA4	520
118	169	1.1	14.8	2008	F202_14.8 S3 ME3LA4	512	F202_14.8 P100 BE100LA4	510
121	165	2.3	14.5	2855	F252_14.5 S3 ME3LA4	522	F252_14.5 P100 BE100LA4	520
134	148	2.5	13.0	2809	F252_13.0 S3 ME3LA4	522	F252_13.0 P100 BE100LA4	520
155	128	1.3	11.2	1889	F202_11.2 S3 ME3LA4	512	F202_11.2 P100 BE100LA4	510
174	114	1.3	10.0	1834	F202_10.0 S3 ME3LA4	512	F202_10.0 P100 BE100LA4	510
187	107	2.3	9.4	2654	F252_9.4 S3 ME3LA4	522	F252_9.4 P100 BE100LA4	520
200	100	1.4	8.7	1797	F202_8.7 S3 ME3LA4	512	F202_8.7 P100 BE100LA4	510
208	96	2.5	8.4	2589	F252_8.4 S3 ME3LA4	522	F252_8.4 P100 BE100LA4	520
223	89	1.5	7.8	1761	F202_7.8 S3 ME3LA4	512	F202_7.8 P100 BE100LA4	510
272	73	1.6	6.4	1687	F202_6.4 S3 ME3LA4	512	F202_6.4 P100 BE100LA4	510

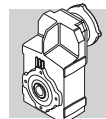
## 3 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
1.8	14643	1.0	986.0	50930	F904_986.0 S3 ME3LB4	588	F904_986.0 P100 BE100LB4	586
1.9	13516	1.0	910.2	50930	F904_910.2 S3 ME3LB4	588	F904_910.2 P100 BE100LB4	586
2.2	11486	1.2	773.4	50930	F904_773.4 S3 ME3LB4	588	F904_773.4 P100 BE100LB4	586
2.4	10602	1.3	714.0	50930	F904_714.0 S3 ME3LB4	588	F904_714.0 P100 BE100LB4	586
2.8	9290	1.5	625.6	50930	F904_625.6 S3 ME3LB4	588	F904_625.6 P100 BE100LB4	586
3.0	8576	1.6	577.5	50930	F904_577.5 S3 ME3LB4	588	F904_577.5 P100 BE100LB4	586
3.1	8374	1.0	563.9	41715	F804_563.9 S3 ME3LB4	580	F804_563.9 P100 BE100LB4	578
3.5	7359	1.9	495.6	50930	F904_495.6 S3 ME3LB4	588	F904_495.6 P100 BE100LB4	586
3.5	7263	1.1	489.1	41715	F804_489.1 S3 ME3LB4	580	F804_489.1 P100 BE100LB4	578



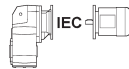



### 3 kW



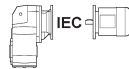

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
3.8	6793	2.1	457.5	50930	F904_457.5 S3 ME3LB4	588	F904_457.5 P100 BE100LB4	586
3.8	6705	1.2	451.5	41715	F804_451.5 S3 ME3LB4	580	F804_451.5 P100 BE100LB4	578
4.4	5821	2.4	392.0	50930	F904_392.0 S3 ME3LB4	588	F904_392.0 P100 BE100LB4	586
4.5	5690	1.4	383.2	41715	F804_383.2 S3 ME3LB4	580	F804_383.2 P100 BE100LB4	578
4.7	5531	0.9	372.5	32375	F704_372.5 S3 ME3LB4	572	F704_372.5 P100 BE100LB4	570
4.8	5373	2.6	361.8	50930	F904_361.8 S3 ME3LB4	588	F904_361.8 P100 BE100LB4	586
4.9	5252	1.5	353.7	41715	F804_353.7 S3 ME3LB4	580	F804_353.7 P100 BE100LB4	578
5.7	4520	1.1	304.3	32375	F704_304.3 S3 ME3LB4	572	F704_304.3 P100 BE100LB4	570
5.8	4406	1.8	296.7	41715	F804_296.7 S3 ME3LB4	580	F804_296.7 P100 BE100LB4	578
6.2	4172	1.2	280.9	32375	F704_280.9 S3 ME3LB4	572	F704_280.9 P100 BE100LB4	570
6.3	4067	2.0	273.9	41715	F804_273.9 S3 ME3LB4	580	F804_273.9 P100 BE100LB4	578
7.4	3483	1.4	234.6	32375	F704_234.6 S3 ME3LB4	572	F704_234.6 P100 BE100LB4	570
7.9	3245	2.5	218.5	41715	F804_218.5 S3 ME3LB4	580	F804_218.5 P100 BE100LB4	578
8.0	3215	1.6	216.5	32375	F704_216.5 S3 ME3LB4	572	F704_216.5 P100 BE100LB4	570
8.6	3090	0.9	201.4	18500	F603_201.4 S3 ME3LB4	562	F603_201.4 P100 BE100LB4	560
8.7	3069	2.6	200.0	41715	F803_200.0 S3 ME3LB4	580	F803_200.0 P100 BE100LB4	578
8.9	3008	1.7	196.0	32375	F703_196.0 S3 ME3LB4	572	F703_196.0 P100 BE100LB4	570
9.3	2853	1.0	185.9	18500	F603_185.9 S3 ME3LB4	562	F603_185.9 P100 BE100LB4	560
9.4	2833	2.8	184.6	41715	F803_184.6 S3 ME3LB4	580	F803_184.6 P100 BE100LB4	578
9.6	2777	1.8	180.9	32375	F703_180.9 S3 ME3LB4	572	F703_180.9 P100 BE100LB4	570
10.4	2558	2.0	166.7	32375	F703_166.7 S3 ME3LB4	572	F703_166.7 P100 BE100LB4	570
10.7	2499	1.2	162.9	18500	F603_162.9 S3 ME3LB4	562	F603_162.9 P100 BE100LB4	560
11.3	2361	2.1	153.8	32375	F703_153.8 S3 ME3LB4	572	F703_153.8 P100 BE100LB4	570
11.5	2307	1.3	150.4	18500	F603_150.4 S3 ME3LB4	562	F603_150.4 P100 BE100LB4	560
13.0	2040	2.5	133.0	32375	F703_133.0 S3 ME3LB4	572	F703_133.0 P100 BE100LB4	570
13.3	2002	1.4	130.5	18500	F603_130.5 S3 ME3LB4	562	F603_130.5 P100 BE100LB4	560
13.4	1994	0.9	129.9	10980	F513_129.9 S3 ME3LB4	552	F513_129.9 P100 BE100LB4	550
14.1	1883	2.7	122.7	32375	F703_122.7 S3 ME3LB4	572	F703_122.7 P100 BE100LB4	570
14.4	1848	1.6	120.5	18500	F603_120.5 S3 ME3LB4	562	F603_120.5 P100 BE100LB4	560
15.8	1682	3.0	109.6	32375	F703_109.6 S3 ME3LB4	572	F703_109.6 P100 BE100LB4	570
16.3	1632	1.8	106.4	18500	F603_106.4 S3 ME3LB4	562	F603_106.4 P100 BE100LB4	560
16.5	1613	1.1	105.1	10980	F513_105.1 S3 ME3LB4	552	F513_105.1 P100 BE100LB4	550
17.7	1507	1.9	98.2	18500	F603_98.2 S3 ME3LB4	562	F603_98.2 P100 BE100LB4	560
20.7	1289	2.2	84.0	18500	F603_84.0 S3 ME3LB4	562	F603_84.0 P100 BE100LB4	560
20.8	1277	1.4	83.2	10980	F513_83.2 S3 ME3LB4	552	F513_83.2 P100 BE100LB4	550
22.4	1190	2.4	77.6	18500	F603_77.6 S3 ME3LB4	562	F603_77.6 P100 BE100LB4	560
25.4	1048	2.8	68.3	18500	F603_68.3 S3 ME3LB4	562	F603_68.3 P100 BE100LB4	560
26.1	1020	1.0	66.5	7382	F413_66.5 S3 ME3LB4	542	F413_66.5 P100 BE100LB4	540
26.4	1010	1.6	65.8	10980	F513_65.8 S3 ME3LB4	552	F513_65.8 P100 BE100LB4	550
27.5	967	3.0	63.0	18500	F603_63.0 S3 ME3LB4	562	F603_63.0 P100 BE100LB4	560
28.8	924	1.1	60.2	7795	F413_60.2 S3 ME3LB4	542	F413_60.2 P100 BE100LB4	540
34	790	1.3	51.5	7795	F413_51.5 S3 ME3LB4	542	F413_51.5 P100 BE100LB4	540
35	750	2.0	48.9	10980	F513_48.9 S3 ME3LB4	552	F513_48.9 P100 BE100LB4	550
36	751	1.3	47.9	7795	F412_47.9 S3 ME3LB4	542	F412_47.9 P100 BE100LB4	540
45	599	1.7	38.2	7795	F412_38.2 S3 ME3LB4	542	F412_38.2 P100 BE100LB4	540
46	591	0.9	37.7	5267	F312_37.7 S3 ME3LB4	532	F312_37.7 P100 BE100LB4	530
47	582	2.7	37.1	10797	F512_37.1 S3 ME3LB4	552	F512_37.1 P100 BE100LB4	550
50	539	1.0	34.4	5322	F312_34.4 S3 ME3LB4	532	F312_34.4 P100 BE100LB4	530
58	472	1.2	30.1	5285	F312_30.1 S3 ME3LB4	532	F312_30.1 P100 BE100LB4	530
58	472	2.2	30.1	7602	F412_30.1 S3 ME3LB4	542	F412_30.1 P100 BE100LB4	540
64	427	1.3	27.3	5240	F312_27.3 S3 ME3LB4	532	F312_27.3 P100 BE100LB4	530



### 3 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
72	378	2.7	24.1	7299	F412_24.1 S3 ME3LB4	542	F412_24.1 P100 BE100LB4	540
73	372	1.0	23.8	2837	F252_23.8 S3 ME3LB4	522	F252_23.8 P100 BE100LB4	520
74	367	1.5	23.4	5148	F312_23.4 S3 ME3LB4	532	F312_23.4 P100 BE100LB4	530
80	342	1.1	21.8	2562	F252_21.8 S3 ME3LB4	522	F252_21.8 P100 BE100LB4	520
82	331	1.7	21.1	5075	F312_21.1 S3 ME3LB4	532	F312_21.1 P100 BE100LB4	530
93	292	1.3	18.6	2589	F252_18.6 S3 ME3LB4	522	F252_18.6 P100 BE100LB4	520
94	290	1.9	18.5	4974	F312_18.5 S3 ME3LB4	532	F312_18.5 P100 BE100LB4	530
103	263	2.1	16.8	4891	F312_16.8 S3 ME3LB4	532	F312_16.8 P100 BE100LB4	530
104	261	1.4	16.6	2589	F252_16.6 S3 ME3LB4	522	F252_16.6 P100 BE100LB4	520
120	227	1.6	14.5	2571	F252_14.5 S3 ME3LB4	522	F252_14.5 P100 BE100LB4	520
124	219	2.5	13.9	4717	F312_13.9 S3 ME3LB4	532	F312_13.9 P100 BE100LB4	530
134	203	1.8	13.0	2553	F252_13.0 S3 ME3LB4	522	F252_13.0 P100 BE100LB4	520
136	199	2.8	12.7	4635	F312_12.7 S3 ME3LB4	532	F312_12.7 P100 BE100LB4	530
154	176	0.9	11.2	1678	F202_11.2 S3 ME3LB4	512	F202_11.2 P100 BE100LB4	510
163	167	2.2	10.6	2498	F252_10.6 S3 ME3LB4	522	F252_10.6 P100 BE100LB4	520
173	157	1.0	10.0	1696	F202_10.0 S3 ME3LB4	512	F202_10.0 P100 BE100LB4	510
185	147	1.7	9.4	2480	F252_9.4 S3 ME3LB4	522	F252_9.4 P100 BE100LB4	520
192	141	2.6	9.0	4259	F312_9.0 S3 ME3LB4	532	F312_9.0 P100 BE100LB4	530
199	137	1.0	8.7	1669	F202_8.7 S3 ME3LB4	512	F202_8.7 P100 BE100LB4	510
207	132	1.8	8.4	2434	F252_8.4 S3 ME3LB4	522	F252_8.4 P100 BE100LB4	520
211	129	2.8	8.2	4168	F312_8.2 S3 ME3LB4	532	F312_8.2 P100 BE100LB4	530
221	123	1.1	7.8	1641	F202_7.8 S3 ME3LB4	512	F202_7.8 P100 BE100LB4	510
253	108	2.2	6.9	2342	F252_6.9 S3 ME3LB4	522	F252_6.9 P100 BE100LB4	520
271	101	1.2	6.4	1586	F202_6.4 S3 ME3LB4	512	F202_6.4 P100 BE100LB4	510


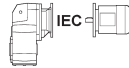
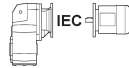

### 3.7 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
2.2	13922	1.0	773.4	50930	F904_773.4 S4 ME4SA4	588	F904_773.4 P112 BE112M4	586
2.4	12851	1.1	714.0	50930	F904_714.0 S4 ME4SA4	588	F904_714.0 P112 BE112M4	586
2.8	11261	1.2	625.6	50930	F904_625.6 S4 ME4SA4	588	F904_625.6 P112 BE112M4	586
3.0	10395	1.3	577.5	50930	F904_577.5 S4 ME4SA4	588	F904_577.5 P112 BE112M4	586
3.5	8920	1.6	495.6	50930	F904_495.6 S4 ME4SA4	588	F904_495.6 P112 BE112M4	586
3.6	8804	0.9	489.1	41715	F804_489.1 S4 ME4SA4	580	F804_489.1 P112 BE112M4	578
3.8	8234	1.7	457.5	50930	F904_457.5 S4 ME4SA4	588	F904_457.5 P112 BE112M4	586
3.9	8127	1.0	451.5	41715	F804_451.5 S4 ME4SA4	580	F804_451.5 P112 BE112M4	578
4.4	7056	2.0	392.0	50930	F904_392.0 S4 ME4SA4	588	F904_392.0 P112 BE112M4	586
4.5	6897	1.2	383.2	41715	F804_383.2 S4 ME4SA4	580	F804_383.2 P112 BE112M4	578
4.8	6513	2.1	361.8	50930	F904_361.8 S4 ME4SA4	588	F904_361.8 P112 BE112M4	586
4.9	6366	1.3	353.7	41715	F804_353.7 S4 ME4SA4	580	F804_353.7 P112 BE112M4	578
5.7	5478	0.9	304.3	32375	F704_304.3 S4 ME4SA4	572	F704_304.3 P112 BE112M4	570
5.9	5341	1.5	296.7	41715	F804_296.7 S4 ME4SA4	580	F804_296.7 P112 BE112M4	578
6.0	5240	2.7	291.1	50930	F904_291.1 S4 ME4SA4	588	F904_291.1 P112 BE112M4	586
6.2	5057	1.0	280.9	32375	F704_280.9 S4 ME4SA4	572	F704_280.9 P112 BE112M4	570
6.4	4930	1.6	273.9	41715	F804_273.9 S4 ME4SA4	580	F804_273.9 P112 BE112M4	578
6.5	4837	2.9	268.7	50930	F904_268.7 S4 ME4SA4	588	F904_268.7 P112 BE112M4	586
7.4	4222	1.2	234.6	32375	F704_234.6 S4 ME4SA4	572	F704_234.6 P112 BE112M4	570
8.0	3933	2.0	218.5	41715	F804_218.5 S4 ME4SA4	580	F804_218.5 P112 BE112M4	578








## 3.7 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
8.0	3897	1.3	216.5	32375	F704_216.5 S4 ME4SA4	572	F704_216.5 P112 BE112M4	570
8.7	3720	2.2	200.0	41715	F803_200.0 S4 ME4SA4	580	F803_200.0 P112 BE112M4	578
8.9	3646	1.4	196.0	32375	F703_196.0 S4 ME4SA4	572	F703_196.0 P112 BE112M4	570
9.4	3434	2.3	184.6	41715	F803_184.6 S4 ME4SA4	580	F803_184.6 P112 BE112M4	578
9.6	3366	1.5	180.9	32375	F703_180.9 S4 ME4SA4	572	F703_180.9 P112 BE112M4	570
10.4	3100	1.6	166.7	32375	F703_166.7 S4 ME4SA4	572	F703_166.7 P112 BE112M4	570
10.7	3030	1.0	162.9	18500	F603_162.9 S4 ME4SA4	562	F603_162.9 P112 BE112M4	560
10.9	2980	2.7	160.2	41715	F803_160.2 S4 ME4SA4	580	F803_160.2 P112 BE112M4	578
11.3	2862	1.7	153.8	32375	F703_153.8 S4 ME4SA4	572	F703_153.8 P112 BE112M4	570
11.6	2797	1.0	150.4	18500	F603_150.4 S4 ME4SA4	562	F603_150.4 P112 BE112M4	560
11.8	2751	2.9	147.9	41715	F803_147.9 S4 ME4SA4	580	F803_147.9 P112 BE112M4	578
13.1	2473	2.0	133.0	32375	F703_133.0 S4 ME4SA4	572	F703_133.0 P112 BE112M4	570
13.3	2427	1.2	130.5	18500	F603_130.5 S4 ME4SA4	562	F603_130.5 P112 BE112M4	560
14.2	2283	2.2	122.7	32375	F703_122.7 S4 ME4SA4	572	F703_122.7 P112 BE112M4	570
14.4	2240	1.3	120.5	18500	F603_120.5 S4 ME4SA4	562	F603_120.5 P112 BE112M4	560
15.9	2039	2.5	109.6	32375	F703_109.6 S4 ME4SA4	572	F703_109.6 P112 BE112M4	570
16.4	1979	1.5	106.4	18500	F603_106.4 S4 ME4SA4	562	F603_106.4 P112 BE112M4	560
16.6	1955	0.9	105.1	10065	F513_105.1 S4 ME4SA4	552	F513_105.1 P112 BE112M4	550
17.2	1882	2.7	101.2	32375	F703_101.2 S4 ME4SA4	572	F703_101.2 P112 BE112M4	570
17.7	1826	1.6	98.2	18500	F603_98.2 S4 ME4SA4	562	F603_98.2 P112 BE112M4	560
18.8	1721	2.9	92.5	32375	F703_92.5 S4 ME4SA4	572	F703_92.5 P112 BE112M4	570
20.7	1563	1.9	84.0	18500	F603_84.0 S4 ME4SA4	562	F603_84.0 P112 BE112M4	560
20.9	1548	1.1	83.2	10980	F513_83.2 S4 ME4SA4	552	F513_83.2 P112 BE112M4	550
22.4	1443	2.0	77.6	18500	F603_77.6 S4 ME4SA4	562	F603_77.6 P112 BE112M4	560
25.5	1270	2.3	68.3	18500	F603_68.3 S4 ME4SA4	562	F603_68.3 P112 BE112M4	560
26.4	1225	1.3	65.8	10980	F513_65.8 S4 ME4SA4	552	F513_65.8 P112 BE112M4	550
27.6	1172	2.5	63.0	18500	F603_63.0 S4 ME4SA4	562	F603_63.0 P112 BE112M4	560
28.9	1121	0.9	60.2	7107	F413_60.2 S4 ME4SA4	542	F413_60.2 P112 BE112M4	540
34	958	1.0	51.5	7474	F413_51.5 S4 ME4SA4	542	F413_51.5 P112 BE112M4	540
36	910	1.7	48.9	10614	F513_48.9 S4 ME4SA4	552	F513_48.9 P112 BE112M4	550
36	911	1.1	47.9	7474	F412_47.9 S4 ME4SA4	542	F412_47.9 P112 BE112M4	540
46	725	1.4	38.2	7079	F412_38.2 S4 ME4SA4	542	F412_38.2 P112 BE112M4	540
47	706	2.2	37.1	10248	F512_37.1 S4 ME4SA4	552	F512_37.1 P112 BE112M4	550
58	572	1.0	30.1	4946	F312_30.1 S4 ME4SA4	532	F312_30.1 P112 BE112M4	530
58	572	1.8	30.1	6978	F412_30.1 S4 ME4SA4	542	F412_30.1 P112 BE112M4	540
58	571	2.7	30.0	9791	F512_30.0 S4 ME4SA4	552	F512_30.0 P112 BE112M4	550
64	518	1.1	27.3	4855	F312_27.3 S4 ME4SA4	532	F312_27.3 P112 BE112M4	530
72	458	2.2	24.1	6804	F412_24.1 S4 ME4SA4	542	F412_24.1 P112 BE112M4	540
74	444	1.3	23.4	4617	F312_23.4 S4 ME4SA4	532	F312_23.4 P112 BE112M4	530
82	401	1.4	21.1	4598	F312_21.1 S4 ME4SA4	532	F312_21.1 P112 BE112M4	530
92	359	2.8	18.9	6557	F412_18.9 S4 ME4SA4	542	F412_18.9 P112 BE112M4	540
93	354	1.1	18.6	2288			F252_18.6 P112 BE112M4	520
94	351	1.6	18.5	4562	F312_18.5 S4 ME4SA4	532	F312_18.5 P112 BE112M4	530
104	319	1.7	16.8	4516	F312_16.8 S4 ME4SA4	532	F312_16.8 P112 BE112M4	530
105	316	1.2	16.6	2178			F252_16.6 P112 BE112M4	520
120	275	1.4	14.5	2214			F252_14.5 P112 BE112M4	520
125	265	2.1	13.9	4415	F312_13.9 S4 ME4SA4	532	F312_13.9 P112 BE112M4	530
134	247	1.5	13.0	2233			F252_13.0 P112 BE112M4	520
137	242	2.3	12.7	4351	F312_12.7 S4 ME4SA4	532	F312_12.7 P112 BE112M4	530
162	204	2.7	10.7	4232	F312_10.7 S4 ME4SA4	532	F312_10.7 P112 BE112M4	530
164	202	1.8	10.6	2242			F252_10.6 P112 BE112M4	520


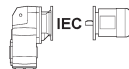



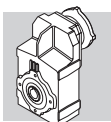


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

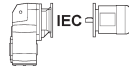

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			
186	178	1.4	9.4	2260			
193	171	2.1	9.0	4049	F312_9.0 S4 ME4SA4	532	F252_9.4 P112 BE112M4
207	159	1.5	8.4	2242			F312_9.0 P112 BE112M4
211	156	2.3	8.2	3985	F312_8.2 S4 ME4SA4	532	F252_8.4 P112 BE112M4
250	132	2.7	6.9	3847	F312_6.9 S4 ME4SA4	532	F312_8.2 P112 BE112M4
253	131	1.8	6.9	2187			F312_6.9 P112 BE112M4
271	122	1.0	6.4	1467			F252_6.9 P112 BE112M4
							F202_6.4 P112 BE112M4

## 5.5 kW



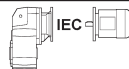

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			
3.6	13380	1.0	495.6	50930	F904_495.6 S4 ME4SB4	588	F904_495.6 P132 BE132S4
3.8	12351	1.1	457.5	50930	F904_457.5 S4 ME4SB4	588	F904_457.5 P132 BE132S4
4.5	10584	1.3	392.0	50930	F904_392.0 S4 ME4SB4	588	F904_392.0 P132 BE132S4
4.9	9770	1.4	361.8	50930	F904_361.8 S4 ME4SB4	588	F904_361.8 P132 BE132S4
5.9	8011	1.0	296.7	41715	F804_296.7 S4 ME4SB4	580	F804_296.7 P132 BE132S4
6.0	7860	1.8	291.1	50930	F904_291.1 S4 ME4SB4	588	F904_291.1 P132 BE132S4
6.4	7395	1.1	273.9	41715	F804_273.9 S4 ME4SB4	580	F804_273.9 P132 BE132S4
6.5	7256	1.9	268.7	50930	F904_268.7 S4 ME4SB4	588	F904_268.7 P132 BE132S4
7.6	6248	2.2	231.4	50930	F904_231.4 S4 ME4SB4	588	F904_231.4 P132 BE132S4
8.1	5899	1.4	218.5	41715	F804_218.5 S4 ME4SB4	580	F804_218.5 P132 BE132S4
8.2	5767	2.4	213.6	50930	F904_213.6 S4 ME4SB4	588	F904_213.6 P132 BE132S4
8.8	5580	1.4	200.0	41715	F803_200.0 S4 ME4SB4	580	F803_200.0 P132 BE132S4
9.0	5469	0.9	196.0	30525	F703_196.0 S4 ME4SB4	572	F703_196.0 P132 BE132S4
9.1	5417	2.6	194.2	50930	F903_194.2 S4 ME4SB4	588	F903_194.2 P132 BE132S4
9.5	5151	1.6	184.6	41715	F803_184.6 S4 ME4SB4	580	F803_184.6 P132 BE132S4
9.7	5048	1.0	180.9	32375	F703_180.9 S4 ME4SB4	572	F703_180.9 P132 BE132S4
9.8	5000	2.8	179.2	50930	F903_179.2 S4 ME4SB4	588	F903_179.2 P132 BE132S4
10.6	4650	1.1	166.7	32375	F703_166.7 S4 ME4SB4	572	F703_166.7 P132 BE132S4
11.0	4470	1.8	160.2	41715	F803_160.2 S4 ME4SB4	580	F803_160.2 P132 BE132S4
11.4	4292	1.2	153.8	32375	F703_153.8 S4 ME4SB4	572	F703_153.8 P132 BE132S4
11.9	4126	1.9	147.9	41715	F803_147.9 S4 ME4SB4	580	F803_147.9 P132 BE132S4
13.2	3709	1.3	133.0	32375	F703_133.0 S4 ME4SB4	572	F703_133.0 P132 BE132S4
13.3	3702	2.2	132.7	41715	F803_132.7 S4 ME4SB4	580	F803_132.7 P132 BE132S4
14.3	3424	1.5	122.7	32375	F703_122.7 S4 ME4SB4	572	F703_122.7 P132 BE132S4
14.4	3417	2.3	122.5	41715	F803_122.5 S4 ME4SB4	580	F803_122.5 P132 BE132S4
15.5	3174	2.5	113.8	41715	F803_113.8 S4 ME4SB4	580	F803_113.8 P132 BE132S4
16.1	3058	1.6	109.6	32375	F703_109.6 S4 ME4SB4	572	F703_109.6 P132 BE132S4
16.5	2968	1.0	106.4	18500	F603_106.4 S4 ME4SB4	562	F603_106.4 P132 BE132S4
16.8	2930	2.7	105.0	41715	F803_105.0 S4 ME4SB4	580	F803_105.0 P132 BE132S4
17.4	2823	1.8	101.2	32375	F703_101.2 S4 ME4SB4	572	F703_101.2 P132 BE132S4
17.9	2740	1.1	98.2	18500	F603_98.2 S4 ME4SB4	562	F603_98.2 P132 BE132S4

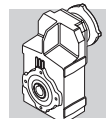


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

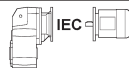

<b>n<sub>2</sub></b> rpm	<b>M<sub>2</sub></b> Nm	<b>S</b>	<b>i</b>	<b>R<sub>n2</sub></b> N				
19.0	2581	1.9	92.5	32375	F703_92.5 S4 ME4SB4	572	F703_92.5 P132 BE132S4	570
20.6	2382	2.1	85.4	32375	F703_85.4 S4 ME4SB4	572	F703_85.4 P132 BE132S4	570
20.9	2344	1.2	84.0	18500	F603_84.0 S4 ME4SB4	562	F603_84.0 P132 BE132S4	560
22.7	2164	1.3	77.6	18500	F603_77.6 S4 ME4SB4	562	F603_77.6 P132 BE132S4	560
23.9	2052	2.4	73.6	32375	F703_73.6 S4 ME4SB4	572	F703_73.6 P132 BE132S4	570
25.8	1905	1.5	68.3	18500	F603_68.3 S4 ME4SB4	562	F603_68.3 P132 BE132S4	560
25.9	1894	2.6	67.9	32375	F703_67.9 S4 ME4SB4	572	F703_67.9 P132 BE132S4	570
27.9	1758	1.6	63.0	18500	F603_63.0 S4 ME4SB4	562	F603_63.0 P132 BE132S4	560
28.2	1744	2.9	62.5	32375	F703_62.5 S4 ME4SB4	572	F703_62.5 P132 BE132S4	570
34	1446	2.0	51.8	18500	F603_51.8 S4 ME4SB4	562	F603_51.8 P132 BE132S4	560
36	1364	1.1	48.9	9425	F513_48.9 S4 ME4SB4	552	F513_48.9 P132 BE132S4	550
37	1335	2.2	47.8	18500	F603_47.8 S4 ME4SB4	562	F603_47.8 P132 BE132S4	560
42	1174	2.5	42.1	18500	F603_42.1 S4 ME4SB4	562	F603_42.1 P132 BE132S4	560
45	1084	2.7	38.8	18500	F603_38.8 S4 ME4SB4	562	F603_38.8 P132 BE132S4	560
46	1088	0.9	38.2	6098	F412_38.2 S4 ME4SB4	542	F412_38.2 P132 BE132S4	540
47	1058	1.5	37.1	9425	F512_37.1 S4 ME4SB4	552	F512_37.1 P132 BE132S4	550
58	858	1.2	30.1	6034	F412_30.1 S4 ME4SB4	542	F412_30.1 P132 BE132S4	540
59	856	1.8	30.0	9104	F512_30.0 S4 ME4SB4	552	F512_30.0 P132 BE132S4	550
69	709	2.5	25.4	18500	F603_25.4 S4 ME4SB4	562	F603_25.4 P132 BE132S4	560
73	687	1.5	24.1	6034	F412_24.1 S4 ME4SB4	542	F412_24.1 P132 BE132S4	540
74	678	2.2	23.8	8747	F512_23.8 S4 ME4SB4	552	F512_23.8 P132 BE132S4	550
75	655	2.7	23.5	18500	F603_23.5 S4 ME4SB4	562	F603_23.5 P132 BE132S4	560
83	602	0.9	21.1	4003	F312_21.1 S4 ME4SB4	532	F312_21.1 P132 BE132S4	530
93	538	1.9	18.9	5942	F412_18.9 S4 ME4SB4	542	F412_18.9 P132 BE132S4	540
94	536	2.6	18.8	8336	F512_18.8 S4 ME4SB4	552	F512_18.8 P132 BE132S4	550
95	527	1.1	18.5	4104	F312_18.5 S4 ME4SB4	532	F312_18.5 P132 BE132S4	530
103	488	2.0	17.1	5878	F412_17.1 S4 ME4SB4	542	F412_17.1 P132 BE132S4	540
105	479	1.2	16.8	3939	F312_16.8 S4 ME4SB4	532	F312_16.8 P132 BE132S4	530
120	417	2.3	14.6	5759	F412_14.6 S4 ME4SB4	542	F412_14.6 P132 BE132S4	540
126	397	1.4	13.9	3829	F312_13.9 S4 ME4SB4	532	F312_13.9 P132 BE132S4	530
138	363	1.5	12.7	3646	F312_12.7 S4 ME4SB4	532	F312_12.7 P132 BE132S4	530
163	307	2.7	10.8	5474	F412_10.8 S4 ME4SB4	542	F412_10.8 P132 BE132S4	540
164	306	1.8	10.7	3554	F312_10.7 S4 ME4SB4	532	F312_10.7 P132 BE132S4	530
193	260	2.5	9.1	5328	F412_9.1 S4 ME4SB4	542	F412_9.1 P132 BE132S4	540
195	257	1.4	9.0	3527	F312_9.0 S4 ME4SB4	532	F312_9.0 P132 BE132S4	530
214	235	1.5	8.2	3435	F312_8.2 S4 ME4SB4	532	F312_8.2 P132 BE132S4	530
253	198	1.8	6.9	3307	F312_6.9 S4 ME4SB4	532	F312_6.9 P132 BE132S4	530

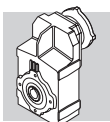
## 7.5 kW

<b>n<sub>2</sub></b> rpm	<b>M<sub>2</sub></b> Nm	<b>S</b>	<b>i</b>	<b>R<sub>n2</sub></b> N				
4.5	14465	1.0	392.0	50930	F904_392.0 S4 ME4LA4	588	F904_392.0 P132 BE132MA4	586
4.9	13352	1.0	361.8	50930	F904_361.8 S4 ME4LA4	588	F904_361.8 P132 BE132MA4	586



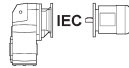



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

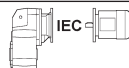

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
6.0	10742	1.3	291.1	50930	F904_291.1 S4 ME4LA4	588	F904_291.1 P132 BE132MA4	586
6.5	9916	1.4	268.7	50930	F904_268.7 S4 ME4LA4	588	F904_268.7 P132 BE132MA4	586
7.6	8538	1.6	231.4	50930	F904_231.4 S4 ME4LA4	588	F904_231.4 P132 BE132MA4	586
8.1	8062	1.0	218.5	41715	F804_218.5 S4 ME4LA4	580	F804_218.5 P132 BE132MA4	578
8.2	7882	1.8	213.6	50930	F904_213.6 S4 ME4LA4	588	F904_213.6 P132 BE132MA4	586
8.8	7626	1.0	200.0	41715	F803_200.0 S4 ME4LA4	580	F803_200.0 P132 BE132MA4	578
9.1	7403	1.9	194.2	50930	F903_194.2 S4 ME4LA4	588	F903_194.2 P132 BE132MA4	586
9.5	7039	1.1	184.6	41715	F803_184.6 S4 ME4LA4	580	F803_184.6 P132 BE132MA4	578
9.8	6834	2.0	179.2	50930	F903_179.2 S4 ME4LA4	588	F903_179.2 P132 BE132MA4	586
10.8	6209	2.3	162.8	50930	F903_162.8 S4 ME4LA4	588	F903_162.8 P132 BE132MA4	586
11.0	6109	1.3	160.2	41715	F803_160.2 S4 ME4LA4	580	F803_160.2 P132 BE132MA4	578
11.7	5731	2.4	150.3	50930	F903_150.3 S4 ME4LA4	588	F903_150.3 P132 BE132MA4	586
11.9	5640	1.4	147.9	41715	F803_147.9 S4 ME4LA4	580	F803_147.9 P132 BE132MA4	578
12.8	5237	2.7	137.3	50930	F903_137.3 S4 ME4LA4	588	F903_137.3 P132 BE132MA4	586
13.2	5070	1.0	133.0	32375	F703_133.0 S4 ME4LA4	572	F703_133.0 P132 BE132MA4	570
13.3	5060	1.6	132.7	41715	F803_132.7 S4 ME4LA4	580	F803_132.7 P132 BE132MA4	578
13.9	4834	2.9	126.8	50930	F903_126.8 S4 ME4LA4	588	F903_126.8 P132 BE132MA4	586
14.3	4680	1.1	122.7	32375	F703_122.7 S4 ME4LA4	572	F703_122.7 P132 BE132MA4	570
14.4	4670	1.7	122.5	41715	F803_122.5 S4 ME4LA4	580	F803_122.5 P132 BE132MA4	578
15.5	4337	1.8	113.8	41715	F803_113.8 S4 ME4LA4	580	F803_113.8 P132 BE132MA4	578
16.1	4180	1.2	109.6	32375	F703_109.6 S4 ME4LA4	572	F703_109.6 P132 BE132MA4	570
16.8	4004	2.0	105.0	41715	F803_105.0 S4 ME4LA4	580	F803_105.0 P132 BE132MA4	578
17.4	3858	1.3	101.2	32375	F703_101.2 S4 ME4LA4	572	F703_101.2 P132 BE132MA4	570
19.0	3527	1.4	92.5	32375	F703_92.5 S4 ME4LA4	572	F703_92.5 P132 BE132MA4	570
19.1	3520	2.3	92.3	41715	F803_92.3 S4 ME4LA4	580	F803_92.3 P132 BE132MA4	578
20.6	3256	1.5	85.4	32375	F703_85.4 S4 ME4LA4	572	F703_85.4 P132 BE132MA4	570
20.7	3249	2.5	85.2	41715	F803_85.2 S4 ME4LA4	580	F803_85.2 P132 BE132MA4	578
20.9	3204	0.9	84.0	17575	F603_84.0 S4 ME4LA4	562	F603_84.0 P132 BE132MA4	560
22.7	2957	1.0	77.6	18500	F603_77.6 S4 ME4LA4	562	F603_77.6 P132 BE132MA4	560
23.1	2907	2.8	76.3	41715	F803_76.3 S4 ME4LA4	580	F803_76.3 P132 BE132MA4	578
23.9	2805	1.8	73.6	32375	F703_73.6 S4 ME4LA4	572	F703_73.6 P132 BE132MA4	570
25.0	2684	3.0	70.4	41437	F803_70.4 S4 ME4LA4	580	F803_70.4 P132 BE132MA4	578
25.8	2604	1.1	68.3	18500	F603_68.3 S4 ME4LA4	562	F603_68.3 P132 BE132MA4	560
25.9	2589	1.9	67.9	32375	F703_67.9 S4 ME4LA4	572	F703_67.9 P132 BE132MA4	570
27.9	2403	1.2	63.0	18500	F603_63.0 S4 ME4LA4	562	F603_63.0 P132 BE132MA4	560
28.2	2383	2.1	62.5	32375	F703_62.5 S4 ME4LA4	572	F703_62.5 P132 BE132MA4	570
31	2200	2.3	57.7	32283	F703_57.7 S4 ME4LA4	572	F703_57.7 P132 BE132MA4	570
34	1976	1.5	51.8	18500	F603_51.8 S4 ME4LA4	562	F603_51.8 P132 BE132MA4	560
36	1867	2.5	49.0	31265	F703_49.0 S4 ME4LA4	572	F703_49.0 P132 BE132MA4	570
37	1824	1.6	47.8	18500	F603_47.8 S4 ME4LA4	562	F603_47.8 P132 BE132MA4	560
39	1723	2.7	45.2	30710	F703_45.2 S4 ME4LA4	572	F703_45.2 P132 BE132MA4	570
42	1605	1.8	42.1	18500	F603_42.1 S4 ME4LA4	562	F603_42.1 P132 BE132MA4	560
45	1481	2.0	38.8	18500	F603_38.8 S4 ME4LA4	562	F603_38.8 P132 BE132MA4	560
47	1446	1.1	37.1	8317	F512_37.1 S4 ME4LA4	552	F512_37.1 P132 BE132MA4	550
55	1223	2.3	32.1	18500	F603_32.1 S4 ME4LA4	562	F603_32.1 P132 BE132MA4	560
59	1170	1.3	30.0	8244	F512_30.0 S4 ME4LA4	552	F512_30.0 P132 BE132MA4	550

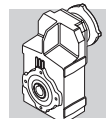


## 7.5 kW



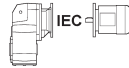

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
59	1129	2.4	29.6	18500	F603_29.6 S4 ME4LA4	562	F603_29.6 P132 BE132MA4	560
69	969	1.8	25.4	18500	F603_25.4 S4 ME4LA4	562	F603_25.4 P132 BE132MA4	560
73	939	1.1	24.1	5044	F412_24.1 S4 ME4LA4	542	F412_24.1 P132 BE132MA4	540
74	927	1.6	23.8	8061	F512_23.8 S4 ME4LA4	552	F512_23.8 P132 BE132MA4	550
75	895	2.0	23.5	18500	F603_23.5 S4 ME4LA4	562	F603_23.5 P132 BE132MA4	560
85	788	2.3	20.7	18500	F603_20.7 S4 ME4LA4	562	F603_20.7 P132 BE132MA4	560
92	727	2.4	19.1	18500	F603_19.1 S4 ME4LA4	562	F603_19.1 P132 BE132MA4	560
93	736	1.4	18.9	5163	F412_18.9 S4 ME4LA4	542	F412_18.9 P132 BE132MA4	540
94	733	1.9	18.8	7796	F512_18.8 S4 ME4LA4	552	F512_18.8 P132 BE132MA4	550
103	667	1.5	17.1	5181	F412_17.1 S4 ME4LA4	542	F412_17.1 P132 BE132MA4	540
112	598	3.0	15.7	18500	F603_15.7 S4 ME4LA4	562	F603_15.7 P132 BE132MA4	560
120	570	1.6	14.6	5163	F412_14.6 S4 ME4LA4	542	F412_14.6 P132 BE132MA4	540
126	544	2.4	14.0	7393	F512_14.0 S4 ME4LA4	552	F512_14.0 P132 BE132MA4	550
126	543	1.0	13.9	3646	F312_13.9 S4 ME4LA4	532	F312_13.9 P132 BE132MA4	530
138	496	1.1	12.7	3554	F312_12.7 S4 ME4LA4	532	F312_12.7 P132 BE132MA4	530
158	433	2.8	11.1	7046	F512_11.1 S4 ME4LA4	552	F512_11.1 P132 BE132MA4	550
163	420	2.0	10.8	5034	F412_10.8 S4 ME4LA4	542	F412_10.8 P132 BE132MA4	540
164	419	1.3	10.7	3417	F312_10.7 S4 ME4LA4	532	F312_10.7 P132 BE132MA4	530
193	356	1.8	9.1	4961	F412_9.1 S4 ME4LA4	542	F412_9.1 P132 BE132MA4	540
194	353	2.8	9.1	6670	F512_9.1 S4 ME4LA4	552	F512_9.1 P132 BE132MA4	550
195	351	1.0	9.0	3453	F312_9.0 S4 ME4LA4	532	F312_9.0 P132 BE132MA4	530
214	321	1.1	8.2	3371	F312_8.2 S4 ME4LA4	532	F312_8.2 P132 BE132MA4	530
253	271	1.3	6.9	3224	F312_6.9 S4 ME4LA4	532	F312_6.9 P132 BE132MA4	530
262	262	2.3	6.7	4713	F412_6.7 S4 ME4LA4	542	F412_6.7 P132 BE132MA4	540

## 9.2 kW

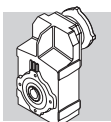
n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
6.0	13100	1.1	291.1	50930	F904_291.1 S4 ME4LB4	588	F904_291.1 P132 BE132MB4	586
6.5	12093	1.2	268.7	50930	F904_268.7 S4 ME4LB4	588	F904_268.7 P132 BE132MB4	586
7.6	10413	1.3	231.4	50930	F904_231.4 S4 ME4LB4	588	F904_231.4 P132 BE132MB4	586
8.2	9612	1.5	213.6	50930	F904_213.6 S4 ME4LB4	588	F904_213.6 P132 BE132MB4	586
9.1	9028	1.6	194.2	50930	F903_194.2 S4 ME4LB4	588	F903_194.2 P132 BE132MB4	586
9.5	8585	0.9	184.6	38934	F803_184.6 S4 ME4LB4	580	F803_184.6 P132 BE132MB4	578
9.8	8334	1.7	179.2	50930	F903_179.2 S4 ME4LB4	588	F903_179.2 P132 BE132MB4	586
10.8	7572	1.8	162.8	50930	F903_162.8 S4 ME4LB4	588	F903_162.8 P132 BE132MB4	586
11.0	7451	1.1	160.2	41715	F803_160.2 S4 ME4LB4	580	F803_160.2 P132 BE132MB4	578
11.7	6989	2.0	150.3	50930	F903_150.3 S4 ME4LB4	588	F903_150.3 P132 BE132MB4	586
11.9	6877	1.2	147.9	41715	F803_147.9 S4 ME4LB4	580	F803_147.9 P132 BE132MB4	578
12.8	6386	2.2	137.3	50930	F903_137.3 S4 ME4LB4	588	F903_137.3 P132 BE132MB4	586
13.3	6170	1.3	132.7	41715	F803_132.7 S4 ME4LB4	580	F803_132.7 P132 BE132MB4	578
13.9	5895	2.4	126.8	50930	F903_126.8 S4 ME4LB4	588	F903_126.8 P132 BE132MB4	586





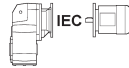

## 9.2 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
14.4	5696	1.4	122.5	41715	F803_122.5 S4 ME4LB4	580	F803_122.5 P132 BE132MB4	578
15.5	5289	1.5	113.8	41715	F803_113.8 S4 ME4LB4	580	F803_113.8 P132 BE132MB4	578
15.7	5205	2.7	111.9	50930	F903_111.9 S4 ME4LB4	588	F903_111.9 P132 BE132MB4	586
16.1	5097	1.0	109.6	32375	F703_109.6 S4 ME4LB4	572	F703_109.6 P132 BE132MB4	570
16.8	4883	1.6	105.0	41715	F803_105.0 S4 ME4LB4	580	F803_105.0 P132 BE132MB4	578
17.0	4805	2.9	103.3	50930	F903_103.3 S4 ME4LB4	588	F903_103.3 P132 BE132MB4	586
17.4	4705	1.1	101.2	32375	F703_101.2 S4 ME4LB4	572	F703_101.2 P132 BE132MB4	570
19.0	4301	1.2	92.5	32375	F703_92.5 S4 ME4LB4	572	F703_92.5 P132 BE132MB4	570
19.1	4292	1.9	92.3	41715	F803_92.3 S4 ME4LB4	580	F803_92.3 P132 BE132MB4	578
20.6	3970	1.3	85.4	32375	F703_85.4 S4 ME4LB4	572	F703_85.4 P132 BE132MB4	570
20.7	3962	2.0	85.2	41715	F803_85.2 S4 ME4LB4	580	F803_85.2 P132 BE132MB4	578
23.1	3546	2.3	76.3	40881	F803_76.3 S4 ME4LB4	580	F803_76.3 P132 BE132MB4	578
23.9	3420	1.5	73.6	32375	F703_73.6 S4 ME4LB4	572	F703_73.6 P132 BE132MB4	570
25.0	3273	2.4	70.4	40510	F803_70.4 S4 ME4LB4	580	F803_70.4 P132 BE132MB4	578
25.8	3175	0.9	68.3	17575	F603_68.3 S4 ME4LB4	562	F603_68.3 P132 BE132MB4	560
25.9	3157	1.6	67.9	32005	F703_67.9 S4 ME4LB4	572	F703_67.9 P132 BE132MB4	570
27.9	2931	1.0	63.0	18500	F603_63.0 S4 ME4LB4	562	F603_63.0 P132 BE132MB4	560
28.2	2906	1.7	62.5	31635	F703_62.5 S4 ME4LB4	572	F703_62.5 P132 BE132MB4	570
28.6	2858	2.8	61.5	39119	F803_61.5 S4 ME4LB4	580	F803_61.5 P132 BE132MB4	578
31	2683	1.9	57.7	31173	F703_57.7 S4 ME4LB4	572	F703_57.7 P132 BE132MB4	570
34	2410	1.2	51.8	18500	F603_51.8 S4 ME4LB4	562	F603_51.8 P132 BE132MB4	560
36	2277	2.0	49.0	30340	F703_49.0 S4 ME4LB4	572	F703_49.0 P132 BE132MB4	570
37	2225	1.3	47.8	18500	F603_47.8 S4 ME4LB4	562	F603_47.8 P132 BE132MB4	560
39	2101	2.2	45.2	29878	F703_45.2 S4 ME4LB4	572	F703_45.2 P132 BE132MB4	570
42	1957	1.5	42.1	18500	F603_42.1 S4 ME4LB4	562	F603_42.1 P132 BE132MB4	560
45	1806	1.6	38.8	18500	F603_38.8 S4 ME4LB4	562	F603_38.8 P132 BE132MB4	560
55	1492	1.9	32.1	18500	F603_32.1 S4 ME4LB4	562	F603_32.1 P132 BE132MB4	560
59	1427	1.1	30.0	7512	F512_30.0 S4 ME4LB4	552	F512_30.0 P132 BE132MB4	550
59	1377	2.0	29.6	18500	F603_29.6 S4 ME4LB4	562	F603_29.6 P132 BE132MB4	560
69	1182	1.5	25.4	18500	F603_25.4 S4 ME4LB4	562	F603_25.4 P132 BE132MB4	560
74	1130	1.3	23.8	7476	F512_23.8 S4 ME4LB4	552	F512_23.8 P132 BE132MB4	550
75	1091	1.6	23.5	18500	F603_23.5 S4 ME4LB4	562	F603_23.5 P132 BE132MB4	560
85	961	1.9	20.7	18500	F603_20.7 S4 ME4LB4	562	F603_20.7 P132 BE132MB4	560
92	887	2.0	19.1	18500	F603_19.1 S4 ME4LB4	562	F603_19.1 P132 BE132MB4	560
93	897	1.1	18.9	4512	F412_18.9 S4 ME4LB4	542	F412_18.9 P132 BE132MB4	540
94	894	1.6	18.8	7338	F512_18.8 S4 ME4LB4	552	F512_18.8 P132 BE132MB4	550
103	813	1.2	17.1	4585	F412_17.1 S4 ME4LB4	542	F412_17.1 P132 BE132MB4	540
112	729	2.4	15.7	18500	F603_15.7 S4 ME4LB4	562	F603_15.7 P132 BE132MB4	560
120	695	1.4	14.6	4649	F412_14.6 S4 ME4LB4	542	F412_14.6 P132 BE132MB4	540
122	673	2.6	14.5	18500	F603_14.5 S4 ME4LB4	562	F603_14.5 P132 BE132MB4	560
126	664	2.0	14.0	7046	F512_14.0 S4 ME4LB4	552	F512_14.0 P132 BE132MB4	550
138	605	0.9	12.7	3206	F312_12.7 S4 ME4LB4	532	F312_12.7 P132 BE132MB4	530
158	528	2.3	11.1	6771	F512_11.1 S4 ME4LB4	552	F512_11.1 P132 BE132MB4	550
163	512	1.6	10.8	4658	F412_10.8 S4 ME4LB4	542	F412_10.8 P132 BE132MB4	540
164	511	1.1	10.7	3353	F312_10.7 S4 ME4LB4	532	F312_10.7 P132 BE132MB4	530
193	434	1.5	9.1	4658	F412_9.1 S4 ME4LB4	542	F412_9.1 P132 BE132MB4	540
194	430	2.3	9.1	6442	F512_9.1 S4 ME4LB4	552	F512_9.1 P132 BE132MB4	550
214	391	0.9	8.2	3069	F312_8.2 S4 ME4LB4	532	F312_8.2 P132 BE132MB4	530
245	342	2.6	7.2	6131	F512_7.2 S4 ME4LB4	552	F512_7.2 P132 BE132MB4	550
253	330	1.1	6.9	3160	F312_6.9 S4 ME4LB4	532	F312_6.9 P132 BE132MB4	530
262	320	1.9	6.7	4484	F412_6.7 S4 ME4LB4	542	F412_6.7 P132 BE132MB4	540





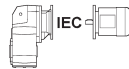



## 11 kW



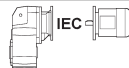

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
6.6	14511	1.0	268.7	50930	F904_268.7 S5 ME5SA4	588	F904_268.7 P160 BE160M4	586
7.6	12495	1.1	231.4	50930	F904_231.4 S5 ME5SA4	588	F904_231.4 P160 BE160M4	586
8.3	11534	1.2	213.6	50930	F904_213.6 S5 ME5SA4	588	F904_213.6 P160 BE160M4	586
9.1	10834	1.3	194.2	50930	F903_194.2 S5 ME5SA4	588	F903_194.2 P160 BE160M4	586
9.8	10000	1.4	179.2	50930	F903_179.2 S5 ME5SA4	588	F903_179.2 P160 BE160M4	586
10.8	9086	1.5	162.8	50930	F903_162.8 S5 ME5SA4	588	F903_162.8 P160 BE160M4	586
11.7	8387	1.7	150.3	50930	F903_150.3 S5 ME5SA4	588	F903_150.3 P160 BE160M4	586
11.9	8253	1.0	147.9	39861	F803_147.9 S5 ME5SA4	580	F803_147.9 P160 BE160M4	578
12.9	7664	1.8	137.3	50930	F903_137.3 S5 ME5SA4	588	F903_137.3 P160 BE160M4	586
13.3	7404	1.1	132.7	41715	F803_132.7 S5 ME5SA4	580	F803_132.7 P160 BE160M4	578
13.9	7074	2.0	126.8	50930	F903_126.8 S5 ME5SA4	588	F903_126.8 P160 BE160M4	586
14.4	6835	1.2	122.5	41715	F803_122.5 S5 ME5SA4	580	F803_122.5 P160 BE160M4	578
15.5	6347	1.3	113.8	41715	F803_113.8 S5 ME5SA4	580	F803_113.8 P160 BE160M4	578
15.8	6247	2.2	111.9	50930	F903_111.9 S5 ME5SA4	588	F903_111.9 P160 BE160M4	586
16.8	5859	1.4	105.0	41159	F803_105.0 S5 ME5SA4	580	F803_105.0 P160 BE160M4	578
17.1	5766	2.4	103.3	50930	F903_103.3 S5 ME5SA4	588	F903_103.3 P160 BE160M4	586
18.4	5343	2.6	95.8	50930	F903_95.8 S5 ME5SA4	588	F903_95.8 P160 BE160M4	586
19.1	5162	1.0	92.5	29600	F703_92.5 S5 ME5SA4	572	F703_92.5 P160 BE160M4	570
19.1	5151	1.6	92.3	40881	F803_92.3 S5 ME5SA4	580	F803_92.3 P160 BE160M4	578
20.0	4932	2.8	88.4	50930	F903_88.4 S5 ME5SA4	588	F903_88.4 P160 BE160M4	586
20.7	4764	1.0	85.4	30710	F703_85.4 S5 ME5SA4	572	F703_85.4 P160 BE160M4	570
20.7	4755	1.7	85.2	40788	F803_85.2 S5 ME5SA4	580	F803_85.2 P160 BE160M4	578
23.1	4255	1.9	76.3	39676	F803_76.3 S5 ME5SA4	580	F803_76.3 P160 BE160M4	578
24.0	4105	1.2	73.6	30988	F703_73.6 S5 ME5SA4	572	F703_73.6 P160 BE160M4	570
25.1	3927	2.0	70.4	39398	F803_70.4 S5 ME5SA4	580	F803_70.4 P160 BE160M4	578
26.0	3789	1.3	67.9	30618	F703_67.9 S5 ME5SA4	572	F703_67.9 P160 BE160M4	570
28.2	3488	1.4	62.5	30433	F703_62.5 S5 ME5SA4	572	F703_62.5 P160 BE160M4	570
28.7	3429	2.3	61.5	38100	F803_61.5 S5 ME5SA4	580	F803_61.5 P160 BE160M4	578
31	3219	1.6	57.7	30063	F703_57.7 S5 ME5SA4	572	F703_57.7 P160 BE160M4	570
31	3166	2.5	56.7	37822	F803_56.7 S5 ME5SA4	580	F803_56.7 P160 BE160M4	578
34	2892	1.0	51.8	18500	F603_51.8 S5 ME5SA4	562	F603_51.8 P160 BE160M4	560
36	2740	2.9	49.1	36246			F803_49.1 P160 BE160M4	578
36	2732	1.7	49.0	29415	F703_49.0 S5 ME5SA4	572	F703_49.0 P160 BE160M4	570
37	2669	1.1	47.8	18500	F603_47.8 S5 ME5SA4	562	F603_47.8 P160 BE160M4	560
39	2522	1.8	45.2	28953	F703_45.2 S5 ME5SA4	572	F703_45.2 P160 BE160M4	570
42	2348	1.2	42.1	18500	F603_42.1 S5 ME5SA4	562	F603_42.1 P160 BE160M4	560
45	2168	1.3	38.8	18500	F603_38.8 S5 ME5SA4	562	F603_38.8 P160 BE160M4	560
46	2142	2.2	38.4	27935			F703_38.4 P160 BE160M4	570
50	1978	2.3	35.4	27380			F703_35.4 P160 BE160M4	570
55	1790	1.6	32.1	18500	F603_32.1 S5 ME5SA4	562	F603_32.1 P160 BE160M4	560
59	1712	0.9	30.0	6945	F512_30.0 S5 ME5SA4	552	F512_30.0 P160 BE160M4	550
59	1674	2.8	30.0	26825			F703_30.0 P160 BE160M4	570
60	1653	1.7	29.6	18500	F603_29.6 S5 ME5SA4	562	F603_29.6 P160 BE160M4	560
64	1545	2.8	27.7	26178			F703_27.7 P160 BE160M4	570
69	1418	1.3	25.4	18500	F603_25.4 S5 ME5SA4	562	F603_25.4 P160 BE160M4	560
72	1370	2.7	24.6	25715	F703_24.6 S5 ME5SA4	572	F703_24.6 P160 BE160M4	570
74	1356	1.1	23.8	6863	F512_23.8 S5 ME5SA4	552	F512_23.8 P160 BE160M4	550
75	1309	1.4	23.5	18500	F603_23.5 S5 ME5SA4	562	F603_23.5 P160 BE160M4	560
85	1153	1.5	20.7	18500	F603_20.7 S5 ME5SA4	562	F603_20.7 P160 BE160M4	560
93	1064	1.7	19.1	18500	F603_19.1 S5 ME5SA4	562	F603_19.1 P160 BE160M4	560
94	1073	1.3	18.8	6853	F512_18.8 S5 ME5SA4	552	F512_18.8 P160 BE160M4	550
113	875	2.0	15.7	18500	F603_15.7 S5 ME5SA4	562	F603_15.7 P160 BE160M4	560



## 11 kW



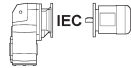

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
122	808	2.2	14.5	18500	F603_14.5 S5 ME5SA4	562	F603_14.5 P160 BE160M4	560
126	797	1.6	14.0	6689	F512_14.0 S5 ME5SA4	552	F512_14.0 P160 BE160M4	550
139	710	2.5	12.7	17945	F603_12.7 S5 ME5SA4	562	F603_12.7 P160 BE160M4	560
150	656	2.7	11.8	17575	F603_11.8 S5 ME5SA4	562	F603_11.8 P160 BE160M4	560
159	633	1.9	11.1	6487	F512_11.1 S5 ME5SA4	552	F512_11.1 P160 BE160M4	550
195	516	1.9	9.1	6195	F512_9.1 S5 ME5SA4	552	F512_9.1 P160 BE160M4	550
245	410	2.2	7.2	5938	F512_7.2 S5 ME5SA4	552	F512_7.2 P160 BE160M4	550

## 15 kW



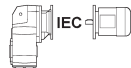

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
9.1	14626	1.0	194.2	50930	F903_194.2 S5 ME5LA4	588	F903_194.2 P160 BE160L4	586
9.9	13501	1.0	179.2	50930	F903_179.2 S5 ME5LA4	588	F903_179.2 P160 BE160L4	586
10.9	12266	1.1	162.8	50930	F903_162.8 S5 ME5LA4	588	F903_162.8 P160 BE160L4	586
11.8	11323	1.2	150.3	50930	F903_150.3 S5 ME5LA4	588	F903_150.3 P160 BE160L4	586
12.9	10346	1.4	137.3	50930	F903_137.3 S5 ME5LA4	588	F903_137.3 P160 BE160L4	586
14.0	9550	1.5	126.8	50930	F903_126.8 S5 ME5LA4	588	F903_126.8 P160 BE160L4	586
15.6	8569	0.9	113.8	38007	F803_113.8 S5 ME5LA4	580	F803_113.8 P160 BE160L4	578
15.8	8433	1.7	111.9	50930	F903_111.9 S5 ME5LA4	588	F903_111.9 P160 BE160L4	586
16.9	7910	1.0	105.0	38749	F803_105.0 S5 ME5LA4	580	F803_105.0 P160 BE160L4	578
17.1	7784	1.8	103.3	50930	F903_103.3 S5 ME5LA4	588	F903_103.3 P160 BE160L4	586
18.5	7214	1.9	95.8	50930	F903_95.8 S5 ME5LA4	588	F903_95.8 P160 BE160L4	586
19.2	6954	1.2	92.3	38285	F803_92.3 S5 ME5LA4	580	F803_92.3 P160 BE160L4	578
20.0	6659	2.1	88.4	50930	F903_88.4 S5 ME5LA4	588	F903_88.4 P160 BE160L4	586
20.8	6419	1.2	85.2	37822	F803_85.2 S5 ME5LA4	580	F803_85.2 P160 BE160L4	578
23.1	5774	2.4	76.7	50930	F903_76.7 S5 ME5LA4	588	F903_76.7 P160 BE160L4	586
23.2	5744	1.4	76.3	37544	F803_76.3 S5 ME5LA4	580	F803_76.3 P160 BE160L4	578
24.1	5541	0.9	73.6	28953	F703_73.6 S5 ME5LA4	572	F703_73.6 P160 BE160L4	570
25.0	5330	2.6	70.8	50930	F903_70.8 S5 ME5LA4	588	F903_70.8 P160 BE160L4	586
25.1	5302	1.5	70.4	36987	F803_70.4 S5 ME5LA4	580	F803_70.4 P160 BE160L4	578
26.1	5115	1.0	67.9	29508	F703_67.9 S5 ME5LA4	572	F703_67.9 P160 BE160L4	570
28.3	4708	1.1	62.5	28953	F703_62.5 S5 ME5LA4	572	F703_62.5 P160 BE160L4	570
28.5	4678	3.0	62.1	50930			F903_62.1 P160 BE160L4	586
28.8	4630	1.7	61.5	35875	F803_61.5 S5 ME5LA4	580	F803_61.5 P160 BE160L4	578
31	4346	1.2	57.7	27473	F703_57.7 S5 ME5LA4	572	F703_57.7 P160 BE160L4	570
31	4274	1.9	56.7	35782	F803_56.7 S5 ME5LA4	580	F803_56.7 P160 BE160L4	578
36	3699	2.2	49.1	35041			F803_49.1 P160 BE160L4	578
36	3688	1.3	49.0	27195	F703_49.0 S5 ME5LA4	572	F703_49.0 P160 BE160L4	570
39	3415	2.3	45.3	34484			F803_45.3 P160 BE160L4	578
39	3404	1.4	45.2	26918	F703_45.2 S5 ME5LA4	572	F703_45.2 P160 BE160L4	570
42	3170	0.9	42.1	17575	F603_42.1 S5 ME5LA4	562	F603_42.1 P160 BE160L4	560
45	2938	2.5	39.0	33187			F803_39.0 P160 BE160L4	578
46	2926	1.0	38.8	18500	F603_38.8 S5 ME5LA4	562	F603_38.8 P160 BE160L4	560
46	2892	1.6	38.4	26455			F703_38.4 P160 BE160L4	570
49	2712	2.7	36.0	32630			F803_36.0 P160 BE160L4	578
50	2670	1.7	35.4	26085			F703_35.4 P160 BE160L4	570
55	2417	1.2	32.1	18500	F603_32.1 S5 ME5LA4	562	F603_32.1 P160 BE160L4	560
59	2260	2.1	30.0	25623			F703_30.0 P160 BE160L4	570
60	2231	1.2	29.6	18500	F603_29.6 S5 ME5LA4	562	F603_29.6 P160 BE160L4	560
64	2086	2.1	27.7	25068			F703_27.7 P160 BE160L4	570
70	1915	0.9	25.4	17575	F603_25.4 S5 ME5LA4	562	F603_25.4 P160 BE160L4	560



## 15 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
72	1850	2.0	24.6	24513	F703_24.6 S5 ME5LA4	572	F703_24.6 P160 BE160L4	570
75	1768	1.0	23.5	18500	F603_23.5 S5 ME5LA4	562	F603_23.5 P160 BE160L4	560
78	1703	2.4	22.6	24235	F703_22.6 S5 ME5LA4	572	F703_22.6 P160 BE160L4	570
85	1572	2.4	20.9	23773	F703_20.9 S5 ME5LA4	572	F703_20.9 P160 BE160L4	570
86	1556	1.1	20.7	18500	F603_20.7 S5 ME5LA4	562	F603_20.7 P160 BE160L4	560
93	1436	1.2	19.1	18500	F603_19.1 S5 ME5LA4	562	F603_19.1 P160 BE160L4	560
94	1448	1.0	18.8	6222	F512_18.8 S5 ME5LA4	552	F512_18.8 P160 BE160L4	550
113	1181	1.5	15.7	18130	F603_15.7 S5 ME5LA4	562	F603_15.7 P160 BE160L4	560
122	1090	1.6	14.5	17760	F603_14.5 S5 ME5LA4	562	F603_14.5 P160 BE160L4	560
127	1076	1.2	14.0	5902	F512_14.0 S5 ME5LA4	552	F512_14.0 P160 BE160L4	550
139	959	1.9	12.7	17390	F603_12.7 S5 ME5LA4	562	F603_12.7 P160 BE160L4	560
151	885	2.0	11.8	17020	F603_11.8 S5 ME5LA4	562	F603_11.8 P160 BE160L4	560
159	855	1.4	11.1	5490	F512_11.1 S5 ME5LA4	552	F512_11.1 P160 BE160L4	550
182	731	2.4	9.7	16373	F603_9.7 S5 ME5LA4	562	F603_9.7 P160 BE160L4	560
196	696	1.4	9.1	5307	F512_9.1 S5 ME5LA4	552	F512_9.1 P160 BE160L4	550
198	675	2.6	9.0	16003	F603_9.0 S5 ME5LA4	562	F603_9.0 P160 BE160L4	560
246	554	1.6	7.2	5161	F512_7.2 S5 ME5LA4	552	F512_7.2 P160 BE160L4	550





## 18.5 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
10.8	15143	0.9	162.8	48615			F903_162.8 P180 BE180M4	586
11.7	13978	1.0	150.3	50930			F903_150.3 P180 BE180M4	586
12.9	12773	1.1	137.3	50930			F903_137.3 P180 BE180M4	586
13.9	11790	1.2	126.8	50930			F903_126.8 P180 BE180M4	586
15.8	10411	1.3	111.9	50930			F903_111.9 P180 BE180M4	586
17.1	9610	1.5	103.3	50930			F903_103.3 P180 BE180M4	586
18.4	8906	1.6	95.8	50930			F903_95.8 P180 BE180M4	586
19.1	8585	0.9	92.3	35041			F803_92.3 P180 BE180M4	578
20.0	8221	1.7	88.4	50930			F903_88.4 P180 BE180M4	586
20.7	7924	1.0	85.2	35690			F803_85.2 P180 BE180M4	578
23.0	7128	2.0	76.7	50930			F903_76.7 P180 BE180M4	586
23.1	7091	1.1	76.3	35319			F803_76.3 P180 BE180M4	578
24.9	6580	2.1	70.8	50930			F903_70.8 P180 BE180M4	586
25.1	6546	1.2	70.4	34855			F803_70.4 P180 BE180M4	578
28.4	5775	2.4	62.1	50930			F903_62.1 P180 BE180M4	586
28.7	5716	1.4	61.5	34670			F803_61.5 P180 BE180M4	578
31	5365	0.9	57.7	26548			F703_57.7 P180 BE180M4	570
31	5331	2.4	57.3	50930			F903_57.3 P180 BE180M4	586
31	5276	1.5	56.7	34114			F803_56.7 P180 BE180M4	578
35	4640	2.8	49.9	50930			F903_49.9 P180 BE180M4	586
36	4567	1.8	49.1	33187			F803_49.1 P180 BE180M4	578
36	4553	1.0	49.0	25345			F703_49.0 P180 BE180M4	570
39	4216	1.9	45.3	33094			F803_45.3 P180 BE180M4	578
39	4203	1.1	45.2	25160			F703_45.2 P180 BE180M4	570
45	3627	2.0	39.0	32445			F803_39.0 P180 BE180M4	578
46	3571	1.3	38.4	24975			F703_38.4 P180 BE180M4	570
49	3348	2.2	36.0	31889			F803_36.0 P180 BE180M4	578



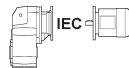





## 18.5 kW





n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
50	3296	1.4	35.4	24698			F703_35.4 P180 BE180M4	570
55	2984	0.9	32.1	17113			F603_32.1 P180 BE180M4	560
56	2906	2.6	31.3	30962			F803_31.3 P180 BE180M4	578
59	2790	1.7	30.0	24513			F703_30.0 P180 BE180M4	570
60	2754	1.0	29.6	17760			F603_29.6 P180 BE180M4	560
61	2683	2.8	28.8	30591			F803_28.8 P180 BE180M4	578
64	2575	1.7	27.7	24050			F703_27.7 P180 BE180M4	570
70	2346	2.5	25.2	29757			F803_25.2 P180 BE180M4	578
72	2284	1.6	24.6	23588			F703_24.6 P180 BE180M4	570
78	2102	1.9	22.6	23310			F703_22.6 P180 BE180M4	570
85	1940	1.9	20.9	23033			F703_20.9 P180 BE180M4	570
85	1921	0.9	20.7	17113			F603_20.7 P180 BE180M4	560
93	1773	1.0	19.1	17760			F603_19.1 P180 BE180M4	560
100	1647	2.4	17.7	22385			F703_17.7 P180 BE180M4	570
108	1520	2.4	16.3	22015			F703_16.3 P180 BE180M4	570
113	1458	1.2	15.7	17298			F603_15.7 P180 BE180M4	560
122	1346	1.3	14.5	17205			F603_14.5 P180 BE180M4	560
126	1328	1.0	14.0	5399			F512_14.0 P180 BE180M4	550
127	1291	2.8	13.9	21275			F703_13.9 P180 BE180M4	570
138	1192	2.8	12.8	20905			F703_12.8 P180 BE180M4	570
139	1184	1.5	12.7	16928			F603_12.7 P180 BE180M4	560
150	1093	1.6	11.8	16558			F603_11.8 P180 BE180M4	560
159	1055	1.1	11.1	5307			F512_11.1 P180 BE180M4	550
182	903	2.0	9.7	16003			F603_9.7 P180 BE180M4	560
195	860	1.2	9.1	5151			F512_9.1 P180 BE180M4	550
197	833	2.1	9.0	15633			F603_9.0 P180 BE180M4	560
245	683	1.3	7.2	4941			F512_7.2 P180 BE180M4	550

## 22 kW





n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
12.9	15199	0.9	137.3	48615			F903_137.3 P180 BE180L4	586
14.0	14030	1.0	126.8	50745			F903_126.8 P180 BE180L4	586
15.8	12389	1.1	111.9	50930			F903_111.9 P180 BE180L4	586
17.1	11436	1.2	103.3	50930			F903_103.3 P180 BE180L4	586
18.5	10598	1.3	95.8	50930			F903_95.8 P180 BE180L4	586
20.0	9783	1.4	88.4	50930			F903_88.4 P180 BE180L4	586
23.1	8483	1.7	76.7	50930			F903_76.7 P180 BE180L4	586
23.2	8439	0.9	76.3	32352			F803_76.3 P180 BE180L4	578
25.0	7830	1.8	70.8	50930			F903_70.8 P180 BE180L4	586
25.1	7789	1.0	70.4	32352			F803_70.4 P180 BE180L4	578
28.5	6873	2.0	62.1	50930			F903_62.1 P180 BE180L4	586
28.8	6802	1.2	61.5	32816			F803_61.5 P180 BE180L4	578
31	6344	2.1	57.3	50930			F903_57.3 P180 BE180L4	586
31	6278	1.3	56.7	32445			F803_56.7 P180 BE180L4	578
35	5522	2.4	49.9	50374			F903_49.9 P180 BE180L4	586
36	5435	1.5	49.1	31611			F803_49.1 P180 BE180L4	578
38	5097	2.5	46.1	49541			F903_46.1 P180 BE180L4	586



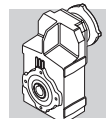
## 22 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
39	5017	1.6	45.3	31796			F803_45.3 P180 BE180L4	578
39	5001	0.9	45.2	24143			F703_45.2 P180 BE180L4	570
44	4482	2.9	40.5	48430			F903_40.5 P180 BE180L4	586
45	4316	1.7	39.0	30869			F803_39.0 P180 BE180L4	578
46	4249	1.1	38.4	23495			F703_38.4 P180 BE180L4	570
49	3984	1.9	36.0	30776			F803_36.0 P180 BE180L4	578
50	3922	1.2	35.4	23403			F703_35.4 P180 BE180L4	570
57	3458	2.1	31.3	30220			F803_31.3 P180 BE180L4	578
59	3320	1.4	30.0	23218			F703_30.0 P180 BE180L4	570
61	3192	2.3	28.8	29664			F803_28.8 P180 BE180L4	578
64	3065	1.4	27.7	22940			F703_27.7 P180 BE180L4	570
70	2792	2.1	25.2	29015			F803_25.2 P180 BE180L4	578
72	2718	1.4	24.6	22663			F703_24.6 P180 BE180L4	570
78	2502	1.6	22.6	22478			F703_22.6 P180 BE180L4	570
80	2438	2.6	22.0	27995			F803_22.0 P180 BE180L4	578
85	2309	1.6	20.9	22200			F703_20.9 P180 BE180L4	570
87	2250	2.6	20.3	27717			F803_20.3 P180 BE180L4	578
100	1960	2.1	17.7	21645			F703_17.7 P180 BE180L4	570
108	1809	2.0	16.3	21368			F703_16.3 P180 BE180L4	570
113	1735	1.0	15.7	16835			F603_15.7 P180 BE180L4	560
122	1602	1.1	14.5	16650			F603_14.5 P180 BE180L4	560
127	1537	2.4	13.9	20720			F703_13.9 P180 BE180L4	570
138	1418	2.4	12.8	20443			F703_12.8 P180 BE180L4	570
139	1409	1.3	12.7	16373			F603_12.7 P180 BE180L4	560
151	1301	1.4	11.8	16095			F603_11.8 P180 BE180L4	560
159	1256	1.0	11.1	4740			F512_11.1 P180 BE180L4	550
163	1201	2.7	10.9	19795			F703_10.9 P180 BE180L4	570
177	1108	2.7	10.0	19425			F703_10.0 P180 BE180L4	570
182	1074	1.7	9.7	15633			F603_9.7 P180 BE180L4	560
196	1023	1.0	9.1	4804			F512_9.1 P180 BE180L4	550
198	992	1.8	9.0	15263			F603_9.0 P180 BE180L4	560
246	813	1.1	7.2	4804			F512_7.2 P180 BE180L4	550



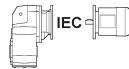

## 30 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
18.4	14427	1.0	95.8	47874			F903_95.8 P200 IEC200L4	586
19.9	13317	1.1	88.4	48337			F903_88.4 P200 IEC200L4	586
23.0	11548	1.2	76.7	48522			F903_76.7 P200 IEC200L4	586
24.9	10660	1.3	70.8	48245			F903_70.8 P200 IEC200L4	586
28.3	9356	1.5	62.1	47967			F903_62.1 P200 IEC200L4	586
31	8636	1.5	57.3	47596			F903_57.3 P200 IEC200L4	586
31	8547	0.9	56.7	28922			F803_56.7 P200 IEC200L4	578
35	7517	1.7	49.9	47041			F903_49.9 P200 IEC200L4	586
36	7398	1.1	49.1	28366			F803_49.1 P200 IEC200L4	578
38	6939	1.9	46.1	46485			F903_46.1 P200 IEC200L4	586
39	6829	1.2	45.3	28644			F803_45.3 P200 IEC200L4	578
43	6102	2.1	40.5	45744			F903_40.5 P200 IEC200L4	586
45	5876	1.3	39.0	28737			F803_39.0 P200 IEC200L4	578
47	5632	2.2	37.4	45096			F903_37.4 P200 IEC200L4	586



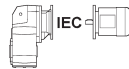

As informações técnicas devem ser considerados como indicativas, as configurações devem ser combinando os dados fornecidos pelos fabricantes de motores de potências nominais superiores a 22 kW.



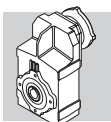
## 30 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
49	5424	1.4	36.0	28366			F803_36.0 P200 IEC200L4	578
56	4708	1.6	31.3	27717			F803_31.3 P200 IEC200L4	578
57	4670	2.6	31.0	43800			F903_31.0 P200 IEC200L4	586
59	4520	1.0	30.0	20628			F703_30.0 P200 IEC200L4	570
61	4346	1.7	28.8	27347			F803_28.8 P200 IEC200L4	578
62	4311	2.6	28.6	43152			F903_28.6 P200 IEC200L4	586
64	4172	1.0	27.7	20535			F703_27.7 P200 IEC200L4	570
69	3825	2.9	25.4	42133			F903_25.4 P200 IEC200L4	586
70	3801	1.5	25.2	27347			F803_25.2 P200 IEC200L4	578
80	3319	1.9	22.0	26883			F803_22.0 P200 IEC200L4	578
87	3063	1.9	20.3	26420			F803_20.3 P200 IEC200L4	578
99	2668	1.5	17.7	20165			F703_17.7 P200 IEC200L4	570
100	2652	2.4	17.6	25863			F803_17.6 P200 IEC200L4	578
108	2462	1.5	16.3	19888			F703_16.3 P200 IEC200L4	570
108	2448	2.4	16.2	25400			F803_16.2 P200 IEC200L4	578
126	2106	3.0	14.0	24751			F803_14.0 P200 IEC200L4	578
127	2092	1.7	13.9	19518			F703_13.9 P200 IEC200L4	570
136	1944	3.0	12.9	24287			F803_12.9 P200 IEC200L4	578
137	1931	1.7	12.8	19333			F703_12.8 P200 IEC200L4	570
162	1635	2.0	10.9	18778			F703_10.9 P200 IEC200L4	570
176	1509	2.0	10.0	18500			F703_10.0 P200 IEC200L4	570



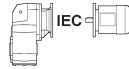

## 37 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
23.0	14221	1.0	76.7	45837			F903_76.7 P225 IEC225S4	586
24.9	13127	1.1	70.8	44078			F903_70.8 P225 IEC225S4	586
28.4	11522	1.2	62.1	44726			F903_62.1 P225 IEC225S4	586
31	10635	1.2	57.3	44170			F903_57.3 P225 IEC225S4	586
35	9257	1.4	49.9	44078			F903_49.9 P225 IEC225S4	586
38	8545	1.5	46.1	43707			F903_46.1 P225 IEC225S4	586
39	8410	0.9	45.3	26234			F803_45.3 P225 IEC225S4	578
44	7514	1.7	40.5	43337			F903_40.5 P225 IEC225S4	586
45	7236	1.0	39.0	26420			F803_39.0 P225 IEC225S4	578
47	6936	1.8	37.4	42874			F903_37.4 P225 IEC225S4	586
49	6679	1.1	36.0	26234			F803_36.0 P225 IEC225S4	578
56	5798	1.3	31.3	26327			F803_31.3 P225 IEC225S4	578
57	5751	2.1	31.0	41948			F903_31.0 P225 IEC225S4	586
61	5352	1.4	28.8	26049			F803_28.8 P225 IEC225S4	578
62	5308	2.1	28.6	41392			F903_28.6 P225 IEC225S4	586
70	4710	2.4	25.4	40651			F903_25.4 P225 IEC225S4	586
70	4680	1.2	25.2	25771			F803_25.2 P225 IEC225S4	578
79	4134	2.7	22.3	39818			F903_22.3 P225 IEC225S4	586
80	4087	1.5	22.0	25585			F803_22.0 P225 IEC225S4	578
86	3816	2.7	20.6	39170			F903_20.6 P225 IEC225S4	586
87	3772	1.5	20.3	25214			F803_20.3 P225 IEC225S4	578
100	3265	1.9	17.6	24844			F803_17.6 P225 IEC225S4	578
109	3014	1.9	16.2	24380			F803_16.2 P225 IEC225S4	578
126	2593	2.4	14.0	23917			F803_14.0 P225 IEC225S4	578
137	2394	2.4	12.9	23453			F803_12.9 P225 IEC225S4	578
158	2078	2.7	11.2	22712			F803_11.2 P225 IEC225S4	578
171	1918	2.7	10.3	22526			F803_10.3 P225 IEC225S4	578



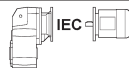

As informações técnicas devem ser considerados como indicativas, as configurações devem ser combinando os dados fornecidos pelos fabricantes de motores de potências nominais superiores a 22 kW.



## 45 kW

n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
28.5	13976	1.0	62.1	41948			F903_62.1 P225 IEC225M4	586
31	12901	1.0	57.3	40929			F903_57.3 P225 IEC225M4	586
35	11230	1.2	49.9	41392			F903_49.9 P225 IEC225M4	586
38	10366	1.3	46.1	40651			F903_46.1 P225 IEC225M4	586
44	9115	1.4	40.5	40651			F903_40.5 P225 IEC225M4	586
47	8414	1.5	37.4	40374			F903_37.4 P225 IEC225M4	586
49	8102	0.9	36.0	23639			F803_36.0 P225 IEC225M4	578
57	7033	1.1	31.3	24195			F803_31.3 P225 IEC225M4	578
57	6976	1.7	31.0	39911			F903_31.0 P225 IEC225M4	586
61	6492	1.1	28.8	24102			F803_28.8 P225 IEC225M4	578
62	6439	1.7	28.6	39448			F903_28.6 P225 IEC225M4	586
70	5713	1.9	25.4	38892			F903_25.4 P225 IEC225M4	586
70	5677	1.0	25.2	24102			F803_25.2 P225 IEC225M4	578
79	5015	2.2	22.3	38336			F903_22.3 P225 IEC225M4	586
80	4957	1.3	22.0	24102			F803_22.0 P225 IEC225M4	578
86	4629	2.3	20.6	37781			F903_20.6 P225 IEC225M4	586
87	4576	1.3	20.3	23824			F803_20.3 P225 IEC225M4	578
99	4029	2.5	17.9	36947			F903_17.9 P225 IEC225M4	586
101	3961	1.6	17.6	23639			F803_17.6 P225 IEC225M4	578
107	3719	2.6	16.5	36392			F903_16.5 P225 IEC225M4	586
109	3656	1.6	16.2	23360			F803_16.2 P225 IEC225M4	578
122	3270	2.8	14.5	35558			F903_14.5 P225 IEC225M4	586
127	3146	2.0	14.0	22990			F803_14.0 P225 IEC225M4	578
132	3019	2.9	13.4	35003			F903_13.4 P225 IEC225M4	586
137	2904	2.0	12.9	22341			F803_12.9 P225 IEC225M4	578
158	2521	2.2	11.2	22248			F803_11.2 P225 IEC225M4	578
171	2327	2.2	10.3	21785			F803_10.3 P225 IEC225M4	578



## 50 kW

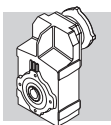
n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
35	13689	1.0	49.9	37688			F903_49.9 P250 IEC250M4	586
38	12636	1.0	46.1	36762			F903_46.1 P250 IEC250M4	586
44	11111	1.2	40.5	37318			F903_40.5 P250 IEC250M4	586
47	10256	1.2	37.4	37225			F903_37.4 P250 IEC250M4	586
57	8504	1.4	31.0	37318			F903_31.0 P250 IEC250M4	586
62	7850	1.4	28.6	37133			F903_28.6 P250 IEC250M4	586
70	6965	1.6	25.4	36762			F903_25.4 P250 IEC250M4	586
79	6113	1.8	22.3	36484			F903_22.3 P250 IEC250M4	586
86	5643	1.9	20.6	36021			F903_20.6 P250 IEC250M4	586
99	4912	2.1	17.9	35466			F903_17.9 P250 IEC250M4	586
107	4534	2.1	16.5	35003			F903_16.5 P250 IEC250M4	586
122	3987	2.3	14.5	34355			F903_14.5 P250 IEC250M4	586
132	3680	2.3	13.4	33892			F903_13.4 P250 IEC250M4	586
159	3051	2.7	11.1	32780			F903_11.1 P250 IEC250M4	586
172	2816	2.6	10.3	32225			F903_10.3 P250 IEC250M4	586

As informações técnicas devem ser considerados como indicativas, as configurações devem ser combinando os dados fornecidos pelos fabricantes de motores de potências nominais superiores a 22 kW.





**F 10** **140 Nm**

	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
<b>F 10 2_7.4</b>	7.4	243	70	1.9	1183	1510	162	80	1.4	1300	1724	506
<b>F 10 2_8.6</b>	8.6	209	75	1.7	1155	1575	140	86	1.3	1300	1797	
<b>F 10 2_9.8</b>	9.8	184	82	1.7	1146	1639	122	94	1.3	1300	1871	
<b>F 10 2_11.5</b>	11.5	157	88	1.5	1119	1722	104	101	1.2	1300	1965	
<b>F 10 2_13.0</b>	13.0	138	95	1.5	1110	1787	92	109	1.1	1300	2039	
<b>F 10 2_14.6</b>	14.6	123	109	1.5	1192	1842	82	125	1.1	1300	2102	
<b>F 10 2_17.0</b>	17.0	106	117	1.4	1192	1925	71	135	1.0	1300	2197	
<b>F 10 2_19.3</b>	19.3	93	125	1.3	1192	2008	62	140	0.96	1300	2291	
<b>F 10 2_22.8</b>	22.8	79	128	1.1	1192	2128	53	140	0.81	1300	2428	
<b>F 10 2_25.8</b>	25.8	70	128	0.99	1192	2238	47	140	0.72	1300	2554	
<b>F 10 2_29.6</b>	29.6	61	132	0.88	1192	2358	41	140	0.63	1300	2691	
<b>F 10 2_33.0</b>	33.0	55	137	0.82	1192	2459	36	140	0.56	1300	2800	
<b>F 10 2_35.3</b>	35.3	51	140	0.79	1192	2524	34	140	0.52	1300	2800	
<b>F 10 2_39.6</b>	39.6	45	140	0.70	1192	2579	30	140	0.47	1300	2800	
<b>F 10 2_44.7</b>	44.7	40	140	0.62	1192	2579	26.8	140	0.41	1300	2800	
<b>F 10 2_48.7</b>	48.7	37	140	0.57	1192	2579	24.6	140	0.38	1300	2800	
<b>F 10 2_56.7</b>	56.7	32	140	0.49	1192	2579	21.2	140	0.33	1300	2800	
<b>F 10 2_63.0</b>	63.0	28.6	140	0.44	1192	2620	19.0	140	0.29	1300	2800	
<b>F 10 2_71.1</b>	71.1	25.3	140	0.39	1192	2750	16.9	140	0.26	1300	2800	
<b>F 10 2_81.3</b>	81.3	22.1	140	0.34	1192	2800	14.8	140	0.23	1300	2800	
<b>F 10 2_91.5</b>	91.5	19.7	140	0.30	1192	2800	13.1	140	0.20	1300	2800	
<b>F 10 2_106.0</b>	106.0	17.0	140	0.26	1192	2800	11.3	140	0.17	1300	2800	
<b>F 10 2_127.1</b>	127.1	14.2	140	0.22	1192	2800	9.4	140	0.15	1300	2800	

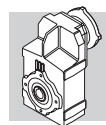


# F 20 250 Nm



	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
F 20 2_6.4	6.4	281	120	3.7	—	1577	188	137	2.8	—	1816	516
F 20 2_7.8	7.8	231	132	3.4	—	1669	154	151	2.6	—	1922	
F 20 2_8.7	8.7	207	143	3.3	—	1715	138	163	2.5	—	1975	
F 20 2_10.0	10.0	180	152	3.0	—	1788	120	173	2.3	—	2059	
F 20 2_11.2	11.2	161	163	2.9	—	1843	107	186	2.2	—	2123	
F 20 2_14.8	14.8	122	187	2.5	933	2027	81	213	1.9	1074	2334	
F 20 2_18.1	18.1	99	196	2.1	942	2182	66	224	1.6	1084	2513	
F 20 2_20.2	20.2	89	205	2.0	989	2256	59	234	1.5	1137	2598	
F 20 2_23.1	23.1	78	216	1.9	924	2357	52	247	1.4	1063	2714	
F 20 2_25.9	25.9	69	221	1.7	1016	2458	46	250	1.3	1169	2830	
F 20 2_30.4	30.4	59	230	1.5	970	2604	39	250	1.1	1116	2999	
F 20 2_33.1	33.1	54	230	1.4	1035	2696	36	250	1.0	1191	3105	
F 20 2_37.9	37.9	47	230	1.2	1044	2852	32	250	0.87	1201	3284	
F 20 2_41.8	41.8	43	230	1.1	1127	2971	28.7	250	0.79	1297	3421	
F 20 2_44.8	44.8	40	235	1.0	1109	3054	26.8	250	0.74	1276	3516	
F 20 2_50.7	50.7	36	238	0.93	1220	3210	23.7	250	0.65	1403	3696	
F 20 2_56.7	56.7	32	250	0.87	1257	3356	21.2	250	0.58	1446	3865	
F 20 2_61.9	61.9	29.1	250	0.80	1266	3475	19.4	250	0.53	1456	4000	
F 20 2_69.1	69.1	26.0	250	0.72	1266	3622	17.4	250	0.48	1456	4000	
F 20 2_76.8	76.8	23.4	250	0.65	1275	3668	15.6	250	0.43	1467	4000	
F 20 2_90.4	90.4	19.9	250	0.55	1284	3668	13.3	250	0.37	1478	4000	
F 20 2_101.6	101.6	17.7	250	0.49	1284	3668	11.8	250	0.33	1478	4000	
F 20 2_114.3	114.3	15.7	250	0.43	1294	3670	10.5	250	0.29	1488	4000	
F 20 2_132.2	132.2	13.6	250	0.38	1294	3890	9.1	250	0.25	1488	4000	
F 20 3_156.3	156.3	11.5	250	0.32	1201	4000	7.7	250	0.22	1300	4000	
F 20 3_172.6	172.6	10.4	250	0.29	1201	4000	7.0	250	0.20	1300	4000	
F 20 3_184.9	184.9	9.7	250	0.27	1210	4000	6.5	250	0.18	1300	4000	
F 20 3_209.3	209.3	8.6	250	0.24	1240	4000	5.7	250	0.16	1300	4000	
F 20 3_234.0	234.0	7.7	250	0.22	1270	4000	5.1	250	0.14	1300	4000	
F 20 3_255.3	255.3	7.1	250	0.20	1280	4000	4.7	250	0.13	1300	4000	
F 20 3_285.2	285.2	6.3	250	0.18	1300	4000	4.2	250	0.12	1300	4000	
F 20 3_316.9	316.9	5.7	250	0.16	1300	4000	3.8	250	0.11	1300	4000	
F 20 3_372.9	372.9	4.8	250	0.14	1300	4000	3.2	250	0.09	1300	4000	
F 20 3_419.3	419.3	4.3	250	0.12	1300	4000	2.9	250	0.08	1300	4000	
F 20 3_471.7	471.7	3.8	250	0.11	1300	4000	2.5	250	0.07	1300	4000	
F 20 3_545.3	545.3	3.3	250	0.09	1300	4000	2.2	250	0.06	1300	4000	

(—) Entre em contato com o nosso departamento de assistência técnica e informe os dados da carga radial (sentido de rotação, orientação e posição)

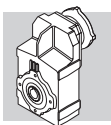






# F 25 400 Nm

	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
F 25 2_6.9	6.9	261	182	5.2	—	2123	174	206	3.9	—	2438	526
F 25 2_8.4	8.4	214	200	4.7	—	2242	143	227	3.6	—	2575	
F 25 2_9.4	9.4	191	210	4.4	—	2324	128	237	3.3	—	2670	
F 25 2_10.6	10.6	170	284	5.3	—	2123	113	322	4.0	—	2438	
F 25 2_13.0	13.0	138	298	4.6	—	2297	92	338	3.4	—	2638	
F 25 2_14.5	14.5	124	308	4.2	—	2388	83	348	3.2	—	2743	
F 25 2_16.6	16.6	108	317	3.8	—	2525	72	359	2.9	—	2901	
F 25 2_18.6	18.6	97	326	3.5	—	2626	65	369	2.6	—	3016	
F 25 2_21.8	21.8	83	331	3.0	—	2827	55	375	2.3	266	3248	
F 25 2_23.8	23.8	76	336	2.8	277	2928	50	380	2.1	319	3363	
F 25 2_27.2	27.2	66	340	2.5	296	3111	44	385	1.9	340	3573	
F 25 2_30.0	30.0	60	345	2.3	379	3239	40	390	1.7	436	3721	
F 25 2_32.2	32.2	56	345	2.1	379	3349	37	390	1.6	436	3847	
F 25 2_36.4	36.4	49	345	1.9	554	3550	33	390	1.4	638	4078	
F 25 2_40.7	40.7	44	345	1.7	665	3733	29.5	375	1.2	765	4288	
F 25 2_44.4	44.4	41	345	1.5	720	3889	27.0	385	1.1	765	4467	
F 25 3_45.6	45.6	39	373	1.7	1691	3687	26.3	400	1.2	1945	4236	
F 25 3_50.8	50.8	35	373	1.5	1709	3889	23.6	400	1.1	1967	4467	
F 25 3_58.3	58.3	31	373	1.3	1719	4145	20.6	400	0.93	1977	4761	
F 25 3_65.3	65.3	27.6	375	1.2	1728	4374	18.4	400	0.83	1988	5024	
F 25 3_76.6	76.6	23.5	395	1.05	1737	4703	15.7	400	0.71	1998	5402	
F 25 3_83.4	83.4	21.6	400	0.97	1737	4877	14.4	400	0.65	1998	5602	
F 25 3_95.5	95.5	18.8	400	0.85	1746	5179	12.6	400	0.57	2009	5949	
F 25 3_105.4	105.4	17.1	400	0.77	1746	5408	11.4	400	0.51	2009	6211	
F 25 3_113.0	113.0	15.9	400	0.72	1746	5572	10.6	400	0.48	2009	6401	
F 25 3_127.8	127.8	14.1	400	0.63	1756	5883	9.4	400	0.42	2020	6500	
F 25 3_143.0	143.0	12.6	400	0.57	1765	5948	8.4	400	0.38	2030	6500	
F 25 3_155.9	155.9	11.5	400	0.52	1765	5948	7.7	400	0.35	2030	6500	
F 25 3_174.2	174.2	10.3	400	0.47	1765	5948	6.9	400	0.31	2030	6500	
F 25 3_193.6	193.6	9.3	400	0.42	1765	5948	6.2	400	0.28	2030	6500	
F 25 3_227.8	227.8	7.9	400	0.36	1774	6120	5.3	400	0.24	2041	6500	
F 25 3_256.1	256.1	7.0	400	0.32	1774	6430	4.7	400	0.21	2041	6500	
F 25 3_288.1	288.1	6.2	400	0.28	1774	6500	4.2	400	0.19	2041	6500	
F 25 3_333.1	333.1	5.4	400	0.24	1783	6500	3.6	400	0.16	2052	6500	
F 25 4_393.9	393.9	4.6	400	0.21	1270	6500	3.0	400	0.14	1300	6500	
F 25 4_434.9	434.9	4.1	400	0.19	1290	6500	2.8	400	0.13	1300	6500	
F 25 4_466.0	466.0	3.9	400	0.18	1300	6500	2.6	400	0.12	1300	6500	
F 25 4_527.3	527.3	3.4	400	0.16	1300	6500	2.3	400	0.11	1300	6500	
F 25 4_589.7	589.7	3.1	400	0.14	1300	6500	2.0	400	0.09	1300	6500	
F 25 4_643.3	643.3	2.8	400	0.13	1300	6500	1.9	400	0.09	1300	6500	
F 25 4_718.7	718.7	2.5	400	0.12	1300	6500	1.7	400	0.08	1300	6500	
F 25 4_798.5	798.5	2.3	400	0.10	1300	6500	1.5	400	0.07	1300	6500	
F 25 4_939.8	939.8	1.9	400	0.09	1300	6500	1.3	400	0.06	1300	6500	
F 25 4_1057	1057	1.7	400	0.08	1300	6500	1.1	400	0.05	1300	6500	
F 25 4_1189	1189	1.5	400	0.07	1300	6500	1.0	400	0.05	1300	6500	
F 25 4_1374	1374	1.3	400	0.06	1300	6500	0.9	400	0.04	1300	6500	

(—) Entre em contato com o nosso departamento de assistência técnica e informe os dados da carga radial (sentido de rotação, orientação e posição)



# F 31 600 Nm

	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
F 31 2_6.9	6.9	261	333	9.6	—	3169	174	378	7.2	—	3650	
F 31 2_8.2	8.2	220	347	8.4	—	3380	146	390	6.3	—	3893	
F 31 2_9.0	9.0	200	357	7.9	—	3490	133	390	5.7	418	4020	
F 31 2_10.7	10.7	168	486	9.0	456	3362	112	551	6.8	536	3872	
F 31 2_12.7	12.7	142	514	8.0	446	3554	94	582	6.1	525	4093	
F 31 2_13.9	13.9	129	528	7.5	592	3673	86	598	5.7	697	4231	
F 31 2_16.8	16.8	107	551	6.5	619	3948	71	600	4.7	729	4547	
F 31 2_18.5	18.5	97	556	6.0	829	4131	65	600	4.3	976	4758	
F 31 2_21.1	21.1	85	556	5.2	938	4415	57	600	3.8	1104	5085	
F 31 2_23.4	23.4	77	556	4.7	1157	4635	51	600	3.4	1361	5338	
F 31 2_27.3	27.3	66	556	4.0	1257	4992	44	600	2.9	1479	5750	
F 31 2_30.1	30.1	60	556	3.7	1448	5230	40	600	2.6	1704	6024	
F 31 2_34.4	34.4	52	556	3.2	1512	5560	35	600	2.3	1780	6404	
F 31 2_37.7	37.7	48	556	2.9	1640	5798	32	600	2.1	1930	6500	
F 31 2_40.4	40.4	45	556	2.7	1640	5954	29.7	600	2.0	1930	6500	
F 31 2_44.6	44.6	40	556	2.5	1758	5954	26.9	600	1.8	2069	6500	
F 31 3_47.5	47.5	38	537	2.3	2110	5954	25.3	600	1.7	2200	6500	
F 31 3_52.1	52.1	35	556	2.2	2120	5954	23.0	600	1.6	2200	6500	
F 31 3_62.8	62.8	28.7	556	1.8	2120	6040	19.1	600	1.3	2200	6500	
F 31 3_69.1	69.1	26.0	556	1.6	2130	6250	17.4	600	1.2	2200	6500	
F 31 3_78.9	78.9	22.8	556	1.4	2120	6500	15.2	600	1.0	2200	6500	
F 31 3_87.4	87.4	20.6	570	1.3	2130	6500	13.7	600	0.93	2200	6500	
F 31 3_101.9	101.9	17.7	595	1.2	2130	6500	11.8	600	0.80	2200	6500	
F 31 3_112.5	112.5	16.0	600	1.1	2130	6500	10.7	600	0.72	2200	6500	
F 31 3_128.4	128.4	14.0	600	0.95	2140	6500	9.3	600	0.63	2200	6500	
F 31 3_140.7	140.7	12.8	600	0.86	2140	6500	8.5	600	0.58	2200	6500	
F 31 3_150.8	150.8	11.9	600	0.81	2140	6500	8.0	600	0.54	2200	6500	
F 31 3_166.8	166.8	10.8	600	0.73	2150	6500	7.2	600	0.49	2200	6500	
F 31 3_185.4	185.4	9.7	600	0.66	2160	6500	6.5	600	0.44	2200	6500	
F 31 3_202.3	202.3	8.9	600	0.60	2160	6500	5.9	600	0.40	2200	6500	
F 31 3_228.2	228.2	7.9	600	0.53	2160	6500	5.3	600	0.36	2200	6500	
F 31 3_253.6	253.6	7.1	600	0.48	2160	6500	4.7	600	0.32	2200	6500	
F 31 3_293.8	293.8	6.1	600	0.41	2170	6500	4.1	600	0.28	2200	6500	
F 31 3_332.8	332.8	5.4	600	0.37	2170	6500	3.6	600	0.24	2200	6500	
F 31 3_374.4	374.4	4.8	600	0.32	2170	6500	3.2	600	0.22	2200	6500	
F 31 4_418.9	418.9	4.3	600	0.30	1230	6500	2.9	600	0.20	1300	6500	
F 31 4_462.6	462.6	3.9	600	0.27	1250	6500	2.6	600	0.18	1300	6500	
F 31 4_527.8	527.8	3.4	600	0.24	1270	6500	2.3	600	0.16	1300	6500	
F 31 4_578.6	578.6	3.1	600	0.22	1290	6500	2.1	600	0.14	1300	6500	
F 31 4_619.9	619.9	2.9	600	0.20	1300	6500	1.9	600	0.14	1300	6500	
F 31 4_685.6	685.6	2.6	600	0.18	1300	6500	1.8	600	0.12	1300	6500	
F 31 4_762.3	762.3	2.4	600	0.16	1300	6500	1.6	600	0.11	1300	6500	
F 31 4_831.6	831.6	2.2	600	0.15	1300	6500	1.4	600	0.10	1300	6500	
F 31 4_938.2	938.2	1.9	600	0.13	1300	6500	1.3	600	0.09	1300	6500	
F 31 4_1042	1042	1.7	600	0.12	1300	6500	1.2	600	0.08	1300	6500	
F 31 4_1208	1208	1.5	600	0.10	1300	6500	0.99	600	0.07	1300	6500	
F 31 4_1368	1368	1.3	600	0.09	1300	6500	0.88	600	0.06	1300	6500	
F 31 4_1539	1539	1.2	600	0.08	1300	6500	0.78	600	0.05	1300	6500	



536

(—) Entre em contato com o nosso departamento de assistência técnica e informe os dados da carga radial (sentido de rotação, orientação e posição)

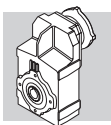






# F 41 1100 Nm

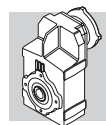
	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
F 41 2_6.7	6.7	269	537	15.9	—	3934	179	607	12.0	—	4530	546
F 41 2_9.1	9.1	198	602	13.1	—	4337	132	681	9.9	—	4995	
F 41 2_10.8	10.8	167	833	15.3	—	3824	111	942	11.5	—	4404	
F 41 2_14.6	14.6	123	940	12.8	—	4182	82	1063	9.6	—	4815	
F 41 2_17.1	17.1	105	977	11.3	—	4447	70	1105	8.5	—	5122	
F 41 2_18.9	18.9	95	1005	10.5	462	4613	63	1100	7.7	532	5312	
F 41 2_24.1	24.1	75	1019	8.4	776	5254	50	1100	6.0	893	6051	
F 41 2_30.1	30.1	60	1019	6.7	1164	5933	40	1100	4.8	1339	6832	
F 41 2_38.2	38.2	47	1019	5.3	1478	6722	31	1100	3.8	1701	7740	
F 41 2_47.9	47.9	38	991	4.1	1959	7629	25.1	1070	3.0	2254	8500	
F 41 3_51.5	51.5	35	1005	4.0	3234	7795	23.3	1100	2.9	3500	8500	
F 41 3_60.2	60.2	29.9	1019	3.4	3234	7795	19.9	1100	2.5	3500	8500	
F 41 3_66.5	66.5	27.1	1019	3.1	3234	7795	18.0	1100	2.2	3500	8500	
F 41 3_84.9	84.9	21.2	1065	2.5	3234	7890	14.1	1100	1.8	3500	8500	
F 41 3_106.0	106.0	17.0	1100	2.1	3234	8500	11.3	1100	1.4	3500	8500	
F 41 3_134.4	134.4	13.4	1100	1.7	3234	8500	8.9	1100	1.1	3500	8500	
F 41 3_168.7	168.7	10.7	1100	1.32	3234	8500	7.1	1100	0.88	3500	8500	
F 41 3_180.7	180.7	10.0	1100	1.2	3234	8500	6.6	1100	0.82	3500	8500	
F 41 3_198.9	198.9	9.0	1100	1.1	3234	8500	6.0	1100	0.75	3500	8500	
F 41 3_220.1	220.1	8.2	1100	1.0	3234	8500	5.5	1100	0.68	3500	8500	
F 41 3_240.1	240.1	7.5	1100	0.93	3234	8500	5.0	1100	0.62	3500	8500	
F 41 3_266.9	266.9	6.7	1100	0.84	3234	8500	4.5	1100	0.56	3500	8500	
F 41 3_296.6	296.6	6.1	1100	0.75	3234	8500	4.0	1100	0.50	3500	8500	
F 41 3_344.8	344.8	5.2	1100	0.65	3234	8500	3.5	1100	0.43	3500	8500	
F 41 4_433.7	433.7	4.2	1100	0.53	1765	8500	2.8	1100	0.35	2030	8500	
F 41 4_549.8	549.8	3.3	1100	0.42	1793	8500	2.2	1100	0.28	2062	8500	
F 41 4_690.1	690.1	2.6	1100	0.33	1820	8500	1.7	1100	0.22	2094	8500	
F 41 4_739.4	739.4	2.4	1100	0.31	1830	8500	1.6	1100	0.21	2105	8500	
F 41 4_813.8	813.8	2.2	1100	0.28	1839	8500	1.5	1100	0.19	2115	8500	
F 41 4_900.5	900.5	2.0	1100	0.26	1848	8500	1.3	1100	0.17	2126	8500	
F 41 4_982.4	982.4	1.8	1100	0.23	1848	8500	1.2	1100	0.16	2126	8500	
F 41 4_1092	1092	1.6	1100	0.21	1857	8500	1.1	1100	0.14	2137	8500	
F 41 4_1213	1213	1.5	1100	0.19	1866	8500	0.99	1100	0.13	2147	8500	
F 41 4_1411	1411	1.3	1100	0.16	1866	8500	0.85	1100	0.11	2147	8500	

(—) Entre em contato com o nosso departamento de assistência técnica e informe os dados da carga radial (sentido de rotação, orientação e posição)





# F 51 1800 Nm

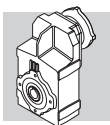
	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
<b>F 51 2_7.2</b>	7.2	250	889	25	1306	4813	167	1014	18.6	1522	5581	556
<b>F 51 2_9.1</b>	9.1	198	1003	22	1197	5078	132	1100	16.0	1395	5889	
<b>F 51 2_11.1</b>	11.1	162	1213	22	1823	5216	108	1383	16.5	2125	6048	
<b>F 51 2_14.0</b>	14.0	129	1295	18.4	1950	5673	86	1477	14.0	2273	6578	
<b>F 51 2_18.8</b>	18.8	96	1409	14.9	2032	6314	64	1607	11.3	2368	7321	
<b>F 51 2_23.8</b>	23.8	76	1505	12.5	2077	6881	50	1700	9.4	2421	7979	
<b>F 51 2_30.0</b>	30.0	60	1550	10.3	2113	7631	40	1700	7.5	2463	8849	
<b>F 51 2_37.1</b>	37.1	49	1550	8.3	2186	8473	32	1700	6.1	2547	9825	
<b>F 51 3_48.9</b>	48.9	37	1505	6.2	3002	9242	24.5	1800	5.0	3500	10716	
<b>F 51 3_65.8</b>	65.8	27.4	1650	5.1	3066	10614	18.2	1800	3.7	3500	12000	
<b>F 51 3_83.2</b>	83.2	21.6	1770	4.3	3120	10980	14.4	1800	2.9	3500	12000	
<b>F 51 3_105.1</b>	105.1	17.1	1800	3.5	3138	10980	11.4	1800	2.3	3500	12000	
<b>F 51 3_129.9</b>	129.9	13.9	1800	2.8	3165	11600	9.2	1800	1.9	3500	12000	
<b>F 51 3_165.6</b>	165.6	10.9	1800	2.2	3175	12000	7.2	1800	1.5	3500	12000	
<b>F 51 3_202.4</b>	202.4	8.9	1800	1.8	3175	12000	5.9	1800	1.2	3500	12000	
<b>F 51 3_216.9</b>	216.9	8.3	1800	1.7	3175	12000	5.5	1800	1.1	3500	12000	
<b>F 51 3_239.8</b>	239.8	7.5	1800	1.5	3175	12000	5.0	1800	1.0	3500	12000	
<b>F 51 3_262.1</b>	262.1	6.9	1800	1.4	3175	12000	4.6	1800	0.93	3500	12000	
<b>F 51 3_285.9</b>	285.9	6.3	1800	1.3	3175	12000	4.2	1800	0.85	3500	12000	
<b>F 51 3_317.3</b>	317.3	5.7	1800	1.1	3175	12000	3.8	1800	0.77	3500	12000	
<b>F 51 3_352.5</b>	352.5	5.1	1800	1.0	3175	12000	3.4	1800	0.69	3500	12000	
<b>F 51 4_429.1</b>	429.1	4.2	1800	0.88	1995	12000	2.8	1800	0.59	2200	12000	
<b>F 51 4_530.5</b>	530.5	3.4	1800	0.71	1995	12000	2.3	1800	0.47	2200	12000	
<b>F 51 4_676.3</b>	676.3	2.7	1800	0.56	2020	12000	1.8	1800	0.37	2200	12000	
<b>F 51 4_826.4</b>	826.4	2.2	1800	0.46	2040	12000	1.5	1800	0.30	2200	12000	
<b>F 51 4_885.5</b>	885.5	2.0	1800	0.43	2050	12000	1.4	1800	0.28	2200	12000	
<b>F 51 4_979.4</b>	979.4	1.8	1800	0.38	2060	12000	1.2	1800	0.26	2200	12000	
<b>F 51 4_1070</b>	1070	1.7	1800	0.35	2070	12000	1.1	1800	0.23	2200	12000	
<b>F 51 4_1168</b>	1168	1.5	1800	0.32	2080	12000	1.0	1800	0.22	2200	12000	
<b>F 51 4_1296</b>	1296	1.4	1800	0.29	2090	12000	0.93	1800	0.19	2200	12000	
<b>F 51 4_1439</b>	1439	1.3	1800	0.26	2100	12000	0.83	1800	0.17	2200	12000	





# F 60 2900 Nm

	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
F 60 3_9.0	9.0	200	1086	24	—	15263	133	1225	18.4	—	17226	566
F 60 3_9.7	9.7	186	1170	24	—	15448	124	1320	18.4	—	17435	
F 60 3_11.8	11.8	153	1217	21	—	16465	102	1373	15.7	—	18583	
F 60 3_12.7	12.7	142	1310	21	—	16650	94	1478	15.7	—	18792	
F 60 3_14.5	14.5	124	1310	18.3	—	17575	83	1478	13.8	—	19836	
F 60 3_15.7	15.7	115	1404	18.1	—	17760	76	1584	13.6	—	20000	
F 60 3_19.1	19.1	94	1404	14.9	—	18500	63	1584	11.2	—	20000	
F 60 3_20.7	20.7	87	1535	15.0	—	18500	58	1732	11.3	—	20000	
F 60 3_23.5	23.5	77	1488	12.8	—	18500	51	1679	9.7	—	20000	
F 60 3_25.4	25.4	71	1610	12.8	—	18500	47	1816	9.7	—	20000	
F 60 3_29.6	29.6	61	2750	18.8	2430	18500	41	2900	13.2	2796	20000	
F 60 3_32.1	32.1	56	2800	17.7	3012	18500	37	2900	12.2	3465	20000	
F 60 3_38.8	38.8	46	2900	15.1	3216	18500	31	2900	10.1	3699	20000	
F 60 3_42.1	42.1	43	2900	14.0	3437	18500	28.5	2900	9.3	3954	20000	
F 60 3_47.8	47.8	38	2900	12.3	3447	19100	25.1	2900	8.2	3965	20000	
F 60 3_51.8	51.8	35	2900	11.3	3539	19500	23.2	2900	7.6	4071	20000	
F 60 3_63.0	63.0	28.6	2900	9.3	3557	20000	19.0	2900	6.2	4093	20000	
F 60 3_68.3	68.3	26.4	2900	8.6	3641	20000	17.6	2900	5.7	4188	20000	
F 60 3_77.6	77.6	23.2	2900	7.6	3622	20000	15.5	2900	5.0	4167	20000	
F 60 3_84.0	84.0	21.4	2900	7.0	3705	20000	14.3	2900	4.7	4263	20000	
F 60 3_98.2	98.2	18.3	2900	6.0	3678	20000	12.2	2900	4.0	4231	20000	
F 60 3_106.4	106.4	16.9	2900	5.5	3761	20000	11.3	2900	3.7	4326	20000	
F 60 3_120.5	120.5	14.9	2900	4.9	3724	20000	10.0	2900	3.3	4284	20000	
F 60 3_130.5	130.5	13.8	2900	4.5	3798	20000	9.2	2900	3.0	4369	20000	
F 60 3_150.4	150.4	12.0	2900	3.9	3751	20000	8.0	2900	2.6	4316	20000	
F 60 3_162.9	162.9	11.0	2900	3.6	3825	20000	7.4	2900	2.4	4401	20000	
F 60 3_185.9	185.9	9.7	2900	3.2	3788	20000	6.5	2900	2.1	4358	20000	
F 60 3_201.4	201.4	8.9	2900	2.9	3862	20000	6.0	2900	1.9	4443	20000	
F 60 3_217.6	217.6	8.3	2900	2.7	3807	20000	5.5	2900	1.8	4380	20000	
F 60 3_235.8	235.8	7.6	2900	2.5	3872	20000	5.1	2900	1.7	4454	20000	
F 60 3_259.1	259.1	6.9	2900	2.3	3816	20000	4.6	2900	1.5	4390	20000	
F 60 3_280.7	280.7	6.4	2900	2.1	3881	20000	4.3	2900	1.4	4465	20000	
F 60 4_315.4	315.4	5.7	2900	1.9	3500	20000	3.8	2900	1.3	3500	20000	
F 60 4_341.7	341.7	5.3	2900	1.8	3500	20000	3.5	2900	1.2	3500	20000	
F 60 4_399.3	399.3	4.5	2900	1.5	3500	20000	3.0	2900	1.0	3500	20000	
F 60 4_432.6	432.6	4.2	2900	1.4	3500	20000	2.8	2900	0.94	3500	20000	
F 60 4_489.8	489.8	3.7	2900	1.2	3500	20000	2.4	2900	0.83	3500	20000	
F 60 4_530.7	530.7	3.4	2900	1.1	3500	20000	2.3	2900	0.76	3500	20000	
F 60 4_611.4	611.4	2.9	2900	0.99	3500	20000	2.0	2900	0.66	3500	20000	
F 60 4_662.4	662.4	2.7	2900	0.92	3500	20000	1.8	2900	0.61	3500	20000	
F 60 4_756.0	756.0	2.4	2900	0.80	3500	20000	1.6	2900	0.54	3500	20000	
F 60 4_819.0	819.0	2.2	2900	0.74	3500	20000	1.5	2900	0.49	3500	20000	
F 60 4_885.1	885.1	2.0	2900	0.69	3500	20000	1.4	2900	0.46	3500	20000	
F 60 4_958.9	958.9	1.9	2900	0.63	3500	20000	1.3	2900	0.42	3500	20000	
F 60 4_1054	1054	1.7	2900	0.58	3500	20000	1.1	2900	0.38	3500	20000	
F 60 4_1141	1141	1.6	2900	0.53	3500	20000	1.1	2900	0.35	3500	20000	

(—) Entre em contato com o nosso departamento de assistência técnica e informe os dados da carga radial (sentido de rotação, orientação e posição)





# F 70 5000 Nm

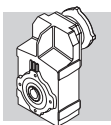
	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
F 70 3_10.0	10.0	180	2966	60	1605	16835	120	3200	43	1832	19055	574
F 70 3_10.9	10.9	165	3198	59	1687	16743	110	3450	43	1926	18951	
F 70 3_12.8	12.8	141	3337	53	860	17853	94	3773	40	921	20207	
F 70 3_13.9	13.9	129	3615	53	810	17668	86	4087	40	921	19998	
F 70 3_16.3	16.3	110	3708	46	651	18963	74	4000	33	743	21464	
F 70 3_17.7	17.7	102	4032	46	578	18685	68	4350	33	660	21149	
F 70 3_20.9	20.9	86	3708	36	1917	20998	57	4000	26	2188	23767	
F 70 3_22.6	22.6	80	4032	36	1843	20813	53	4350	26	2104	23558	
F 70 3_24.6	24.6	73	3708	31	2302	22385	49	4000	22	2628	25337	
F 70 3_27.7	27.7	65	4311	32	5878	22293	43	4873	24	6711	25233	
F 70 3_30.0	30.0	60	4635	31	5887	22108	40	5000	23	6722	25023	
F 70 3_35.4	35.4	51	4635	27	5905	23958	34	5000	19.1	6743	27117	
F 70 3_38.4	38.4	47	4635	24	5997	24513	31	5000	17.6	6847	27746	
F 70 3_45.2	45.2	40	4635	21	6043	26548	26.5	5000	14.9	6900	30049	
F 70 3_49.0	49.0	37	4635	19.2	6126	27103	24.5	5000	13.8	6994	30677	
F 70 3_57.7	57.7	31	5000	17.6	6126	29230	20.8	5000	11.7	6994	33085	
F 70 3_62.5	62.5	28.8	5000	16.2	6199	29878	19.2	5000	10.8	7000	33818	
F 70 3_67.9	67.9	26.5	5000	14.9	6153	31080	17.7	5000	10.0	7000	35000	
F 70 3_73.6	73.6	24.5	5000	13.8	6226	31820	16.3	5000	9.2	7000	35000	
F 70 3_85.4	85.4	21.1	5000	11.9	6217	32375	14.1	5000	7.9	7000	35000	
F 70 3_92.5	92.5	19.5	5000	11.0	6291	32375	13.0	5000	7.3	7000	35000	
F 70 3_101.2	101.2	17.8	5000	10.0	6254	32375	11.9	5000	6.7	7000	35000	
F 70 3_109.6	109.6	16.4	5000	9.2	6318	32375	10.9	5000	6.2	7000	35000	
F 70 3_122.7	122.7	14.7	5000	8.3	6281	32375	9.8	5000	5.5	7000	35000	
F 70 3_133.0	133.0	13.5	5000	7.6	6346	33100	9.0	5000	5.1	7000	35000	
F 70 3_153.8	153.8	11.7	5000	6.6	6309	35000	7.8	5000	4.4	7000	35000	
F 70 3_166.7	166.7	10.8	5000	6.1	6373	35000	7.2	5000	4.1	7000	35000	
F 70 3_180.9	180.9	10.0	5000	5.6	6336	35000	6.6	5000	3.7	7000	35000	
F 70 3_196.0	196.0	9.2	5000	5.2	6391	35000	6.1	5000	3.4	7000	35000	
F 70 4_216.5	216.5	8.3	5000	4.8	2623	35000	5.5	5000	3.2	2994	35000	
F 70 4_234.6	234.6	7.7	5000	4.5	2623	35000	5.1	5000	3.0	2994	35000	
F 70 4_280.9	280.9	6.4	5000	3.7	2696	35000	4.3	5000	2.5	3078	35000	
F 70 4_304.3	304.3	5.9	5000	3.4	2696	35000	3.9	5000	2.3	3078	35000	
F 70 4_372.5	372.5	4.8	5000	2.8	2751	35000	3.2	5000	1.9	3141	35000	
F 70 4_403.5	403.5	4.5	5000	2.6	2751	35000	3.0	5000	1.7	3141	35000	
F 70 4_471.2	471.2	3.8	5000	2.2	2788	35000	2.5	5000	1.5	3183	35000	
F 70 4_510.4	510.4	3.5	5000	2.1	2788	35000	2.4	5000	1.4	3183	35000	
F 70 4_606.8	606.8	3.0	5000	1.7	2815	35000	2.0	5000	1.2	3214	35000	
F 70 4_657.4	657.4	2.7	5000	1.6	2815	35000	1.8	5000	1.1	3214	35000	
F 70 4_759.0	759.0	2.4	5000	1.38	2834	35000	1.6	5000	0.92	3235	35000	
F 70 4_822.2	822.2	2.2	5000	1.27	2834	35000	1.5	5000	0.85	3235	35000	
F 70 4_899.4	899.4	2.0	5000	1.16	2852	35000	1.3	5000	0.78	3256	35000	
F 70 4_974.4	974.4	1.8	5000	1.07	2852	35000	1.2	5000	0.72	3256	35000	
F 70 4_1091	1091	1.6	5000	0.96	2861	35000	1.1	5000	0.64	3267	35000	
F 70 4_1182	1182	1.5	5000	0.89	2861	35000	1.0	5000	0.59	3267	35000	
F 70 4_1368	1368	1.3	5000	0.77	2870	35000	0.88	5000	0.51	3277	35000	
F 70 4_1481	1481	1.2	5000	0.71	2870	35000	0.81	5000	0.47	3277	35000	
F 70 4_1585	1585	1.1	5000	0.66	2879	35000	0.76	5000	0.44	3288	35000	
F 70 4_1717	1717	1.0	5000	0.61	2879	35000	0.70	5000	0.41	3288	35000	
F 70 4_2019	2019	0.89	5000	0.52	2889	35000	0.59	5000	0.35	3298	35000	
F 70 4_2188	2188	0.82	5000	0.48	2889	35000	0.55	5000	0.32	3298	35000	



# F 80 8000 Nm



	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
F 80 3_10.3	10.3	175	3801	75	610	20209	117	4289	56	—	22825	582
F 80 3_11.2	11.2	161	4116	74	620	20116	107	4644	56	—	22720	
F 80 3_12.9	12.9	140	4153	65	670	21414	93	4686	49	—	24186	
F 80 3_14.0	14.0	129	4505	65	700	21321	86	5084	49	—	24081	
F 80 3_16.2	16.2	111	4394	55	760	22990	74	4958	41	—	25966	
F 80 3_17.6	17.6	102	4765	55	730	22897	68	5376	41	—	25861	
F 80 3_20.3	20.3	89	4746	47	780	24566	59	5356	36	—	27746	
F 80 3_22.0	22.0	82	5136	47	780	24473	55	5795	36	—	27641	
F 80 3_25.2	25.2	71	4941	40	700	26420	48	5575	30	—	29840	
F 80 3_28.8	28.8	63	7416	52	5224	23546	42	8000	38	6320	26594	
F 80 3_31.3	31.3	58	7416	48	5357	24102	38	8000	35	6481	27222	
F 80 3_36.0	36.0	50	7416	42	5420	26049	33	8000	30	6556	29421	
F 80 3_39.0	39.0	46	7416	39	5535	26698	31	8000	28	6696	30154	
F 80 3_45.3	45.3	40	7900	35	5535	28830	26	8000	24	6696	32562	
F 80 3_49.1	49.1	37	8000	33	5641	29571	24	8000	22	6824	33399	
F 80 3_56.7	56.7	32	8000	29	5668	31796	21	8000	19.1	6856	35912	
F 80 3_61.5	61.5	29,3	8000	26	5766	32538	19.5	8000	17.6	6975	36750	
F 80 3_70.4	70.4	25,6	8000	23	5730	34763	17.0	8000	15.4	6932	39263	
F 80 3_76.3	76.3	23,6	8000	21	5819	35597	15.7	8000	14.2	7000	40205	
F 80 3_85.2	85.2	21,1	8000	19.0	5810	37544	14.1	8000	12.7	7000	42404	
F 80 3_92.3	92.3	19,5	8000	17.6	5890	38471	13.0	8000	11.7	7000	43451	
F 80 3_105.0	105.0	17,1	8000	15.4	5863	40788	11.4	8000	10.3	7000	45000	
F 80 3_113.8	113.8	15,8	8000	14.2	5943	41715	10.5	8000	9.5	7000	45000	
F 80 3_122.5	122.5	14,7	8000	13.2	5881	41715	9.8	8000	8.8	7000	45000	
F 80 3_132.7	132.7	13,6	8000	12.2	5961	41715	9.0	8000	8.1	7000	45000	
F 80 3_147.9	147.9	12,2	8000	11.0	5907	41715	8.1	8000	7.3	7000	45000	
F 80 3_160.2	160.2	11,2	8000	10.1	5987	41715	7.5	8000	6.7	7000	45000	
F 80 3_184.6	184.6	9,8	8000	8.8	5943	41800	6.5	8000	5.9	7000	45000	
F 80 3_200.0	200.0	9,0	8000	8.1	6014	42800	6.0	8000	5.4	7000	45000	
F 80 4_218.5	218.5	8.2	8000	7.7	2129	45000	5.5	8000	5.1	2575	45000	
F 80 4_273.9	273.9	6.6	8000	6.1	2377	45000	4.4	8000	4.1	2876	45000	
F 80 4_296.7	296.7	6.1	8000	5.6	2377	45000	4.0	8000	3.8	2876	45000	
F 80 4_353.7	353.7	5.1	8000	4.7	2457	45000	3.4	8000	3.2	2972	45000	
F 80 4_383.2	383.2	4.7	8000	4.4	2457	45000	3.1	8000	2.9	2972	45000	
F 80 4_451.5	451.5	4.0	8000	3.7	2501	45000	2.7	8000	2.5	3026	45000	
F 80 4_489.1	489.1	3.7	8000	3.4	2501	45000	2.5	8000	2.3	3026	45000	
F 80 4_563.9	563.9	3.2	8000	3.0	2537	45000	2.1	8000	2.0	3069	45000	
F 80 4_610.9	610.9	2.9	8000	2.7	2537	45000	2.0	8000	1.8	3069	45000	
F 80 4_714.9	714.9	2.5	8000	2.3	2563	45000	1.7	8000	1.6	3101	45000	
F 80 4_774.4	774.4	2.3	8000	2.2	2563	45000	1.5	8000	1.4	3101	45000	
F 80 4_897.3	897.3	2.0	8000	1.9	2599	45000	1.3	8000	1.2	3144	45000	
F 80 4_972.0	972.0	1.85	8000	1.7	2599	45000	1.2	8000	1.1	3144	45000	
F 80 4_1058	1058	1.70	8000	1.6	2617	45000	1.1	8000	1.1	3165	45000	
F 80 4_1146	1146	1.57	8000	1.5	2617	45000	1.0	8000	0.97	3165	45000	
F 80 4_1277	1277	1.41	8000	1.3	2626	45000	0.94	8000	0.87	3176	45000	
F 80 4_1384	1384	1.30	8000	1.2	2626	45000	0.87	8000	0.81	3176	45000	
F 80 4_1578	1578	1.14	8000	1.1	2634	45000	0.76	8000	0.71	3187	45000	
F 80 4_1709	1709	1.05	8000	0.98	2634	45000	0.70	8000	0.65	3187	45000	
F 80 4_1834	1834	0.98	8000	0.91	2643	45000	0.65	8000	0.61	3198	45000	
F 80 4_1987	1987	0.91	8000	0.84	2643	45000	0.60	8000	0.56	3198	45000	

(—) Entre em contato com o nosso departamento de assistência técnica e informe os dados da carga radial (sentido de rotação, orientação e posição)



# F 90

# 14000 Nm

	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
F 90 3_10.3	10.3	175	7424	146	6864	27132	117	8368	110	8792	30648	590
F 90 3_11.1	11.1	162	8166	149	6667	26576	108	9205	112	8539	30020	
F 90 3_13.4	13.4	134	8630	131	6246	28428	90	9728	98	8001	32112	
F 90 3_14.5	14.5	124	9280	130	6349	28058	83	10460	97	8133	31694	
F 90 3_16.5	16.5	109	9558	117	5972	29632	73	10774	88	7649	33472	
F 90 3_17.9	17.9	101	10208	116	6160	29354	67	11506	87	7891	33158	
F 90 3_20.6	20.6	87	10486	103	5371	31206	58	11820	78	6880	35250	
F 90 3_22.3	22.3	81	11136	101	5654	30928	54	12552	76	7242	34936	
F 90 3_25.4	25.4	71	11136	89	5414	33336	47	12000	64	6935	37656	
F 90 3_28.6	28.6	63	11136	79	10639	35188	42	12552	59	13628	39748	
F 90 3_31.0	31.0	58	12064	79	10639	34540	39	13598	59	13628	39016	
F 90 3_37.4	37.4	48	12528	68	10639	37410	32	14000	51	13628	42258	
F 90 3_40.5	40.5	44	12992	65	10725	37596	30	14000	47	13738	42468	
F 90 3_46.1	46.1	39	12992	57	10811	40374	26.0	14000	41	13847	45606	
F 90 3_49.9	49.9	36	13050	53	10897	41392	24.0	14000	38	13957	46756	
F 90 3_57.3	57.3	31	130 50	46	10897	44541	20.9	14000	33	13957	50313	
F 90 3_62.1	62.1	29.0	14000	46	10982	45652	19.3	14000	30	14067	51568	
F 90 3_70.8	70.8	25.4	14000	40	10982	48800	16.9	14000	27	14067	55000	
F 90 3_76.7	76.7	23.5	14000	37	11154	50004	15.6	14000	25	14287	55000	
F 90 3_88.4	88.4	20.4	14000	32	11068	50930	13.6	14000	21	14177	55000	
F 90 3_95.8	95.8	18.8	14000	30	11240	50930	12.5	14000	19.7	14397	55000	
F 90 3_103.3	103.3	17.4	14000	27	11154	50930	11.6	14000	18.3	14287	55000	
F 90 3_111.9	111.9	16.1	14000	25	11240	50930	10.7	14000	16.9	14397	55000	
F 90 3_126.8	126.8	14.2	14000	22	11154	50930	9.5	14000	14.9	14287	55000	
F 90 3_137.3	137.3	13.1	14000	21	11240	51500	8.7	14000	13.8	14397	55000	
F 90 3_150.3	150.3	12.0	14000	18.9	11240	54000	8.0	14000	12.6	14397	55000	
F 90 3_162.8	162.8	11.1	14000	17.4	11326	55000	7.4	14000	11.6	14507	55000	
F 90 3_179.2	179.2	10.0	14000	15.8	11240	55000	6.7	14000	10.6	14397	55000	
F 90 3_194.2	194.2	9.3	14000	14.6	11326	55000	6.2	14000	9.7	14507	55000	
F 90 4_213.6	213.6	8.4	14000	13.7	—	55000	5.6	14000	9.2	—	55000	
F 90 4_231.4	231.4	7.8	14000	12.7	—	55000	5.2	14000	8.4	—	55000	
F 90 4_268.7	268.7	6.7	14000	10.9	—	55000	4.5	14000	7.3	462	55000	
F 90 4_291.1	291.1	6.2	14000	10.1	—	55000	4.1	14000	6.7	462	55000	
F 90 4_361.8	361.8	5.0	14000	8.1	—	55000	3.3	14000	5.4	1088	55000	
F 90 4_392.0	392.0	4.6	14000	7.5	—	55000	3.1	14000	5.0	1088	55000	
F 90 4_457.5	457.5	3.9	14000	6.4	—	55000	2.6	14000	4.3	1528	55000	
F 90 4_495.6	495.6	3.6	14000	5.9	—	55000	2.4	14000	3.9	1528	55000	
F 90 4_577.5	577.5	3.1	14000	5.1	1373	55000	2.1	14000	3.4	1758	55000	
F 90 4_625.6	625.6	2.9	14000	4.7	1373	55000	1.9	14000	3.1	1758	55000	
F 90 4_714.0	714.0	2.5	14000	4.1	1544	55000	1.7	14000	2.7	1978	55000	
F 90 4_773.4	773.4	2.3	14000	3.8	1544	55000	1.6	14000	2.5	1978	55000	
F 90 4_910.2	910.2	2.0	14000	3.2	1733	55000	1.3	14000	2.1	2220	55000	
F 90 4_986.0	986.0	1.8	14000	3.0	1733	55000	1.2	14000	2.0	2220	55000	
F 90 4_1112	1112	1.6	14000	2.6	1810	55000	1.1	14000	1.8	2319	55000	
F 90 4_1205	1205	1.5	14000	2.4	1810	55000	1.0	14000	1.6	2319	55000	
F 90 4_1318	1318	1.4	14000	2.2	1905	55000	0.91	14000	1.5	2440	55000	
F 90 4_1428	1428	1.3	14000	2.1	1905	55000	0.84	14000	1.4	2440	55000	
F 90 4_1571	1571	1.1	14000	1.9	1939	55000	0.76	14000	1.2	2484	55000	
F 90 4_1702	1702	1.1	14000	1.7	1939	55000	0.71	14000	1.1	2484	55000	
F 90 4_1937	1937	0.93	14000	1.5	1973	55000	0.62	14000	1.0	2528	55000	
F 90 4_2099	2099	0.86	14000	1.4	1973	55000	0.57	14000	0.9	2528	55000	

(—) Entre em contato com o nosso departamento de assistência técnica e informe os dados da carga radial (sentido de rotação, orientação e posição)





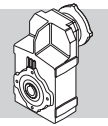
## 56 DISPONIBILIDADE DE MOTOR

Observe que as combinações de motor e redutor resultantes das tabelas (D55) e (D56) baseiam-se meramente na compatibilidade geométrica.


**Ao selecionar um redutor, consulte o procedimento especificado no parágrafo 11 e observe especificamente a condição  $S \geq f_s$ .**

(D 57)

										
		P63 P71	P80 P90	P100 P112	P132	P160	P180	P200	P225	P250
F 10 2		7.4_127.1	7.4_91.5	7.4_91.5						
F 20 2		8.7_132.2 ⊖ (14.8_18.1)	6.4_114.3	6.4_114.3						
F 20 3		156.3_545.3	156.3_545.3	156.3_545.3						
F 25 2		9.4_44.4 ⊖ (10.6_13.0)	6.9_44.4	6.9_44.4						
F 25 3		50.8_333.1	45.6_288.1	45.6_288.1						
F 25 4		393.9_1374	393.9_1374	393.9_1374						
F 31 2		18.5_44.6	6.9_44.6	6.9_44.6	6.9_37.7					
F 31 3		69.1_374.4	47.5_374.4	47.5_374.4	47.5_140.7					
F 31 4		418.9_1539	418.9_1539	418.9_1539						
F 41 2		24.1_47.9	6.7_47.9	6.7_47.9	6.7_47.9					
F 41 3		84.9_344.8	51.5_344.8	51.5_344.8	51.5_168.7					
F 41 4	i =	433.7_1411	433.7_1411	433.7_1411						
F 51 2		30.0_37.1	7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1			
F 51 3		105.1_352.5	48.9_352.5	48.9_352.5	48.9_202.4	48.9_202.4	48.9_202.4			
F 51 4		429.1_1439	429.1_1439	429.1_1439						
F 60 3		98.2_280.7	11.8_280.7 ⊖ (29.6_32.1)	11.8_280.7 ⊖ (29.6_32.1)	9.0_201.4	9.0_201.4	9.0_201.4			
F 60 4		315.4_1141	315.4_1141	315.4_1141						
F 70 3			85.4_196.0	85.4_196.0	16.3_196.0 ⊖ (27.7_38.4)	10.0_196.0	10.0_196.0	10.0_49.0 ⊖ (20.9_24.6)		
F 70 4		372.5_2188	216.5_2188	216.5_2188	216.5_822.2					
F 80 3			105.0_200.0	105.0_200.0	20.3_200.0 ⊖ (28.8_49.1)	12.9_200.0 ⊖ (28.8_31.3)	10.3_200.0	10.3_132.7	10.3_132.7	
F 80 4		451.5_1987	218.5_1987	218.5_1987	218.5_972.0					
F 90 3			126.8_194.2	126.8_194.2	25.4_194.2 ⊖ (28.6_62.1)	20.6_194.2 ⊖ (28.6_49.9)	10.3_194.2	10.3_162.8	10.3_162.8	10.3_162.8
F 90 4		577.5_2099	213.6_2099	213.6_2099	213.6_1205	213.6_1205	213.6_1205			




(D 58)

		 <b>NEMA Motor frame</b>						
		N56C	N140TC	N180TC	N210TC	N250TC	N280TC	N320TC
<b>F 10 2</b>		7.4_127.1	7.4_91.5	7.4_91.5				
<b>F 20 2</b>		8.7_132.2 ⊖ (14.8_18.1)	6.4_114.3	6.4_114.3				
<b>F 20 3</b>		156.3_545.3	156.3_545.3	156.3_545.3				
<b>F 25 2</b>		9.4_44.4 ⊖ (10.6_13.0)	6.9_44.4	6.9_44.4				
<b>F 25 3</b>		50.8_333.1	45.6_288.1	45.6_288.1				
<b>F 25 4</b>		393.9_1374	393.9_1374	393.9_1374				
<b>F 31 2</b>		18.5_44.6	6.9_44.6	6.9_44.6	6.9_37.7			
<b>F 31 3</b>		69.1_374.4	47.5_374.4	47.5_374.4	47.5_140.7			
<b>F 31 4</b>		418.9_1539	418.9_1539	418.9_1539				
<b>F 41 2</b>		24.1_47.9	6.7_47.9	6.7_47.9	6.7_47.9			
<b>F 41 3</b>		84.9_344.8	51.5_344.8	51.5_344.8	51.5_168.7			
<b>F 41 4</b>	i =	433.7_1411	433.7_1411	433.7_1411				
<b>F 51 2</b>		30.0_37.1	7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1	
<b>F 51 3</b>		105.1_352.5	48.9_352.5	48.9_352.5	48.9_202.4	48.9_202.4	48.9_202.4	
<b>F 51 4</b>		429.1_1439	429.1_1439	429.1_1439				
<b>F 60 3</b>		98.2_280.7	11.8_280.7 ⊖ (29.6_32.1)	11.8_280.7 ⊖ (29.6_32.1)	9.0_201.4	9.0_201.4	9.0_201.4	
<b>F 60 4</b>		315.4_1141	315.4_1141	315.4_1141				
<b>F 70 3</b>			85.4_196.0	85.4_196.0	16.3_196.0 ⊖ (27.7_38.4)	10.0_196.0	10.0_196.0	
<b>F 70 4</b>		372.5_2188	216.5_2188	216.5_2188	216.5_822.2			
<b>F 80 3</b>			105.0_200.0	105.0_200.0	20.3_200.0 ⊖ (28.8_49.1)	12.9_200.0 ⊖ (28.8_31.3)	10.3_200.0	10.3_132.7
<b>F 80 4</b>		451.5_1987	218.5_1987	218.5_1987	218.5_972.0			
<b>F 90 3</b>			126.8_194.2	126.8_194.2	25.4_194.2 ⊖ (28.6_62.1)	20.6_194.2 ⊖ (28.6_49.9)	10.3_194.2	10.3_162.8
<b>F 90 4</b>		577.5_2099	213.6_2099	213.6_2099	213.6_1205	213.6_1205	213.6_1205	





(D 59)

		 					
		M05	M1	M2 - ME2	ME3	ME4	ME5
F 10 2		7.4_127.1	7.4_71.1	7.4_91.5	7.4_91.5		
F 20 2		8.7_132.2 ⊖ (14.8_18.1)	8.7_90.4 ⊖ (14.8_18.1)	6.4_114.3	6.4_114.3		
F 20 3		156.3_545.3	156.3_545.3	156.3_545.3	156.3_545.3		
F 25 2		9.4_44.4 ⊖ (10.6_13.0)	9.4_44.4 ⊖ (10.6_13.0)	6.9_44.4	6.9_44.4		
F 25 3		50.8_333.1	50.8_227.8	45.6_288.1	45.6_288.1		
F 25 4		393.9_1374	393.9_1374	393.9_1374	393.9_1374		
F 31 2			18.5_44.6	6.9_44.6	6.9_44.6	6.9_37.7	
F 31 3			69.1_293.8	47.5_374.4	47.5_374.4	47.5_140.7	
F 31 4		418.9_1539	418.9_1539	418.9_1539	418.9_1539		
F 41 2			24.1_47.9	6.7_47.9	6.7_47.9	6.7_47.9	
F 41 3			84.9_344.8	51.5_344.8	51.5_344.8	51.5_168.7	
F 41 4	i =	433.7_1411	433.7_1411	433.7_1411	433.7_1411		
F 51 2			30.0_37.1	7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1
F 51 3			105.1_352.5	48.9_352.5	48.9_352.5	48.9_202.4	48.9_202.4
F 51 4			429.1_1439	429.1_1439	429.1_1439		
F 60 3				11.8_280.7 ⊖ (29.6_32.1)	11.8_280.7 ⊖ (29.6_32.1)	9_201.4	9_201.4
F 60 4			315.4_1141	315.4_1141	315.4_1141		
F 70 3				85.4_196.0	85.4_196.0	16.3_196.0 ⊖ (27.7_38.4)	16.3_196.0 ⊖ (27.7_38.4)
F 70 4			372.5_2188	216.5_2188	216.5_2188	216.5_822.2	
F 80 3					105.0_200.0	20.3_200.0 ⊖ (28.8_49.1)	20.3_200.0 ⊖ (28.8_49.1)
F 80 4			451.5_1987	218.5_1987	218.5_1987	218.5_972.0	
F 90 3					126.8_194.2	25.4_194.2 ⊖ (28.6_62.1)	25.4_194.2 ⊖ (28.6_62.1)
F 90 4				213.6_2099	213.6_2099	213.6_1205	



Adaptadores para motor compatíveis com as marcas mais populares de servomotores estão disponíveis para as unidades tamanhos F 10 ... F 60. As dimensões das entradas do servomotor são fornecidas na seção “desenho” de cada tamanho de quadro.

O código **SK** é aplicável para entradas com chaveta convencional, enquanto que o eixo de entrada especificado pelo código **SC** terá um dispositivo de fixação em vez da chaveta convencional.

(D 60)

		SERVO INPUT							
		SK60A	SK60B	SK80A	SK80B	SK80C	SK95A	SK95B	SK95C
		SC60A	SC60B	SC80A	SC80B	SC80C	SC95A	SC95B	SC95C
F 10 2	i =	7.4_127.1	7.4_71.1	7.4_71.1		7.4_91.5	7.4_71.1	7.4_91.5	7.4_91.5
F 20 2		8.7_132.2 ⊖(14.8_18.1)	8.7_90.4 ⊖(14.8_18.1)	8.7_90.4 ⊖(14.8_18.1)		6.4_114.3	8.7_90.4 ⊖(14.8_18.1)	6.4_114.3	6.4_114.3
F 20 3		156.3_545.3	156.3_545.3	156.3_545.3		156.3_545.3	156.3_545.3	156.3_545.3	156.3_545.3
F 25 2		9.4_44.4 ⊖(10.6_13.0)	9.4_44.4 ⊖(10.6_13.0)	9.4_44.4 ⊖(10.6_13.0)		6.9_44.4	9.4_44.4 ⊖(10.6_13.0)	6.9_44.4	6.9_44.4
F 25 3		45.6_333.1	45.6_227.8	45.6_227.8		45.6_288.1	45.6_227.8	45.6_288.1	45.6_288.1
F 25 4		393.9_1374	393.9_1374	393.9_1374		393.9_1374	393.9_1374	393.9_1374	393.9_1374
F 31 2		18.5_44.6	18.5_44.6	18.5_44.6		6.9_44.6	18.5_44.6	6.9_44.6	6.9_44.6
F 31 3		69.1_374.4	69.1_293.8	69.1_293.8		47.5_374.4	69.1_293.8	47.5_374.4	47.5_374.4
F 31 4		418.9_1539	418.9_1539	418.9_1539		418.9_1539	418.9_1539	418.9_1539	418.9_1539
F 41 2					24.1_47.9	6.7_47.9	24.1_47.9	6.7_47.9	6.7_47.9
F 41 3					84.9_344.8	51.5_344.8	84.9_344.8	51.5_344.8	51.5_344.8
F 41 4		433.7_1411	433.7_1411	433.7_1411		433.7_1411	433.7_1411	433.7_1411	433.7_1411
F 51 2					30.0_37.1	7.2_37.1	30.0_37.1	7.2_37.1	7.2_37.1
F 51 3					105.1_352.5	48.9_352.5	105.1_352.5	48.9_352.5	48.9_352.5
F 51 4						429.1_1439	429.1_1439	429.1_1439	429.1_1439
F 60 3						11.8_280.7 ⊖(29.6_32.1)	106.4_280.7	11.8_280.7 ⊖(29.6_32.1)	11.8_280.7 ⊖(29.6_32.1)
F 60 4					315.4_1141	315.4_1141	315.4_1141	315.4_1141	315.4_1141

(D 61)

		SERVO INPUT					
		SK110A	SK110B	SK130A	SK130B	SK180A	SK180B
		SC110A	SC110B	SC130A	SC130B	SC180A	SC180B
F 10 2	i =	7.4_91.5	7.4_91.5				
F 20 2		6.4_114.3	6.4_114.3				
F 20 3		156.3_545.3	156.3_545.3				
F 25 2		6.9_44.4	6.9_44.4				
F 25 3		45.6_288.1	45.6_288.1				
F 25 4		393.9_1374	393.9_1374				
F 31 2		6.9_44.6	6.9_44.6	6.9_44.6			
F 31 3		47.5_374.4	47.5_374.4	47.5_374.4			
F 31 4		418.9_1539	418.9_1539				
F 41 2		6.7_47.9	6.7_47.9	6.7_47.9	6.7_47.9	6.7_47.9	6.7_47.9
F 41 3		51.5_344.8	51.5_344.8	51.5_344.8	51.5_168.7	51.5_168.7	51.5_168.7
F 41 4		433.7_1411	433.7_1411				
F 51 2		7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1
F 51 3		48.9_352.5	48.9_352.5	48.9_352.5	48.9_202.4	48.9_202.4	48.9_202.4
F 51 4		429.1_1439	429.1_1439	429.1_1439			
F 60 3		11.8_280.7 ⊖(29.6_32.1)	11.8_280.7 ⊖(29.6_32.1)	11.8_280.7 ⊖(29.6_32.1)	9.0_201.4	9.0_201.4	9.0_201.4
F 60 4		315.4_1141	315.4_1141	315.4_1141			



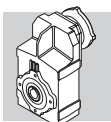
## 57 MOMENTO DE INÉRCIA

As tabelas abaixo indicam os valores de momento de inércia  $J_r$  [kgm<sup>2</sup>] referentes ao eixo de alta velocidade do redutor. Legenda dos símbolos utilizados a seguir:




	Valores sob este ícone referem-se a redutores compactos, sem motor. Para obter o momento de inércia total do redutor, basta incluir o valor da inércia do motor compacto específico, fornecido na tabela de classificação pertinente.		<b>NEMA</b>	Valores sob este símbolo referem-se a redutores com adaptador para motor NEMA (tamanho NEMA..).	
	<b>IEC</b>	Valores sob este símbolo referem-se a redutores com adaptador para motor IEC (tamanho IEC...).		<b>SERVO</b>	Valores sob este símbolo referem-se a redutores com adaptador de entrada para servomotor.
					Este símbolo refere-se a valores para redutores.

## F 10

	i	J (•10 <sup>-4</sup> ) [kgm <sup>2</sup> ]							
			63	71	80	90	100	112	
F 10 2_7.4	7.4	1.0	1.8	1.8	3.8	3.7	4.9	4.9	1.7
F 10 2_8.6	8.6	0.77	1.5	1.5	3.6	3.5	4.7	4.7	1.5
F 10 2_9.8	9.8	0.64	1.4	1.4	3.4	3.3	4.5	4.5	1.3
F 10 2_11.5	11.5	0.48	1.2	1.2	3.3	3.2	4.4	4.4	1.2
F 10 2_13.0	13.0	0.38	1.1	1.1	3.2	3.1	4.3	4.3	1.1
F 10 2_14.6	14.6	0.61	1.4	1.4	3.4	3.3	4.5	4.5	1.3
F 10 2_17.0	17.0	0.48	1.3	1.2	3.3	3.2	4.4	4.4	1.2
F 10 2_19.3	19.3	0.41	1.2	1.2	3.2	3.1	4.3	4.3	1.1
F 10 2_22.8	22.8	0.32	1.1	1.1	3.1	3.0	4.2	4.2	1.0
F 10 2_25.8	25.8	0.25	1.0	1.0	3.1	2.9	4.1	4.1	0.93
F 10 2_29.6	29.6	0.19	1.0	0.95	3.0	2.9	4.1	4.1	0.87
F 10 2_33.0	33.0	0.16	0.93	0.92	3.0	2.8	4.1	4.1	0.84
F 10 2_35.3	35.3	0.14	0.92	0.90	3.0	2.8	4.0	4.0	0.83
F 10 2_39.6	39.6	0.12	0.90	0.88	2.9	2.8	4.0	4.0	0.80
F 10 2_44.7	44.7	0.10	0.88	0.86	2.9	2.8	4.0	4.0	0.79
F 10 2_48.7	48.7	0.09	0.86	0.85	2.9	2.8	4.0	4.0	0.77
F 10 2_56.7	56.7	0.07	0.84	0.83	2.9	2.7	4.0	4.0	0.75
F 10 2_63.0	63.0	0.06	0.83	0.82	2.9	2.7	3.9	3.9	0.74
F 10 2_71.1	71.1	0.05	0.82	0.81	2.8	2.7	3.9	3.9	0.73
F 10 2_81.3	81.3	0.04	0.78	0.77	2.8	2.7	3.9	3.9	0.67
F 10 2_91.5	91.5	0.03	0.78	0.76	2.8	2.7	3.9	3.9	0.66
F 10 2_106.0	106.0	0.03	0.77	0.76	—	—	—	—	0.66
F 10 2_127.1	127.1	0.02	0.76	0.75	—	—	—	—	0.65




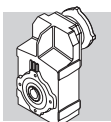
## F 10

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]				
			N56C	 NEMA N140TC	N180TC	
<b>F 10 2_7.4</b>	7.4	1.0	1.8	1.8	3.8	1.7
<b>F 10 2_8.6</b>	8.6	0.77	1.5	1.5	3.6	1.5
<b>F 10 2_9.8</b>	9.8	0.64	1.4	1.4	3.4	1.3
<b>F 10 2_11.5</b>	11.5	0.48	1.2	1.2	3.3	1.2
<b>F 10 2_13.0</b>	13.0	0.38	1.1	1.1	3.2	1.1
<b>F 10 2_14.6</b>	14.6	0.61	1.4	1.4	3.4	1.3
<b>F 10 2_17.0</b>	17.0	0.48	1.3	1.3	3.3	1.2
<b>F 10 2_19.3</b>	19.3	0.41	1.2	1.2	3.2	1.1
<b>F 10 2_22.8</b>	22.8	0.32	1.1	1.1	3.1	1.0
<b>F 10 2_25.8</b>	25.8	0.25	1.0	1.0	3.1	0.93
<b>F 10 2_29.6</b>	29.6	0.19	1.0	1.0	3.0	0.87
<b>F 10 2_33.0</b>	33.0	0.16	0.93	0.93	3.0	0.84
<b>F 10 2_35.3</b>	35.3	0.14	0.92	0.92	3.0	0.83
<b>F 10 2_39.6</b>	39.6	0.12	0.90	0.90	2.9	0.80
<b>F 10 2_44.7</b>	44.7	0.10	0.88	0.88	2.9	0.79
<b>F 10 2_48.7</b>	48.7	0.09	0.86	0.86	2.9	0.77
<b>F 10 2_56.7</b>	56.7	0.07	0.84	0.84	2.9	0.75
<b>F 10 2_63.0</b>	63.0	0.06	0.83	0.83	2.9	0.74
<b>F 10 2_71.1</b>	71.1	0.05	0.82	0.82	2.8	0.73
<b>F 10 2_81.3</b>	81.3	0.04	0.78	0.78	2.8	0.67
<b>F 10 2_91.5</b>	91.5	0.03	0.78	0.78	2.8	0.66
<b>F 10 2_106.0</b>	106.0	0.03	0.77	0.77	—	0.66
<b>F 10 2_127.1</b>	127.1	0.02	0.76	0.76	—	0.65




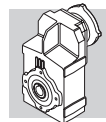
# F 10

		J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]									
		 SERVO									
	i	60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 10 2_7.4	7.4	1.3	1.5	1.3	1.7	3.8	4.3	3.8	4.3	3.7	4.7
F 10 2_8.6	8.6	1.0	1.3	1.1	1.5	3.6	4.0	3.6	4.1	3.5	4.5
F 10 2_9.8	9.8	0.91	1.2	0.93	1.4	3.5	3.9	3.4	3.9	3.3	4.3
F 10 2_11.5	11.5	0.75	1.0	0.77	1.2	3.3	3.7	3.3	3.8	3.2	4.2
F 10 2_13.0	13.0	0.65	0.91	0.67	1.1	3.2	3.6	3.2	3.7	3.1	4.1
F 10 2_14.6	14.6	0.88	1.1	0.91	1.3	3.4	3.9	3.4	3.9	3.3	4.3
F 10 2_17.0	17.0	0.75	1.0	0.77	1.2	3.3	3.7	3.3	3.8	3.2	4.2
F 10 2_19.3	19.3	0.68	0.94	0.70	1.1	3.2	3.7	3.2	3.7	3.1	4.1
F 10 2_22.8	22.8	0.59	0.85	0.61	1.0	3.1	3.6	3.1	3.6	3.0	4.0
F 10 2_25.8	25.8	0.52	0.78	0.54	0.98	3.1	3.5	3.1	3.6	2.9	3.9
F 10 2_29.6	29.6	0.46	0.72	0.48	0.92	3.0	3.4	3.0	3.5	2.9	3.9
F 10 2_33.0	33.0	0.43	0.69	0.45	0.89	3.0	3.4	3.0	3.5	2.8	3.8
F 10 2_35.3	35.3	0.41	0.67	0.43	0.87	3.0	3.4	3.0	3.5	2.8	3.8
F 10 2_39.6	39.6	0.39	0.65	0.41	0.85	2.9	3.3	2.9	3.4	2.8	3.8
F 10 2_44.7	44.7	0.37	0.63	0.39	0.83	2.9	3.4	2.9	3.4	2.8	3.8
F 10 2_48.7	48.7	0.36	0.62	0.38	0.82	2.9	3.3	2.9	3.4	2.8	3.8
F 10 2_56.7	56.7	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7
F 10 2_63.0	63.0	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.7	3.7
F 10 2_71.1	71.1	0.32	0.58	0.34	0.78	2.9	3.3	2.8	3.3	2.7	3.7
F 10 2_81.3	81.3	0.31	0.57	—	—	—	—	2.8	3.3	2.7	3.7
F 10 2_91.5	91.5	0.30	0.56	—	—	—	—	2.8	3.3	2.7	3.7
F 10 2_106.0	106.0	0.30	0.56	—	—	—	—	—	—	—	—
F 10 2_127.1	127.1	0.29	0.55	—	—	—	—	—	—	—	—






## F 20

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]							
			63	71	80	90	100	112	
F 20 2_6.4	6.4	2.2	—	—	5.0	4.8	6.0	6.0	3.9
F 20 2_7.8	7.8	1.5	—	—	4.3	4.2	5.4	5.4	3.3
F 20 2_8.7	8.7	1.3	2.0	2.0	4.1	3.9	5.2	5.2	3.0
F 20 2_10.0	10.0	1.0	1.8	1.7	3.8	3.7	4.9	4.9	2.7
F 20 2_11.2	11.2	0.88	1.6	1.6	3.6	3.5	4.7	4.7	2.6
F 20 2_14.8	14.8	1.2	—	—	4.0	3.9	5.1	5.1	2.9
F 20 2_18.1	18.1	0.90	—	—	3.7	3.5	4.7	4.7	2.6
F 20 2_20.2	20.2	0.78	1.5	1.5	3.5	3.4	4.6	4.6	2.5
F 20 2_23.1	23.1	0.64	1.4	1.3	3.4	3.3	4.5	4.5	2.4
F 20 2_25.9	25.9	0.57	1.3	1.3	3.3	3.2	4.4	4.4	2.3
F 20 2_30.4	30.4	0.41	1.1	1.1	3.2	3.0	4.3	4.3	2.1
F 20 2_33.1	33.1	0.36	1.1	1.1	3.1	3.0	4.2	4.2	2.1
F 20 2_37.9	37.9	0.30	1.0	1.0	3.1	2.9	4.1	4.1	2.0
F 20 2_41.8	41.8	0.27	1.0	1.0	3.0	2.9	4.1	4.1	2.0
F 20 2_44.8	44.8	0.24	1.0	1.0	3.0	2.9	4.1	4.1	2.0
F 20 2_50.7	50.7	0.21	0.93	0.92	3.0	2.8	4.1	4.1	1.9
F 20 2_56.7	56.7	0.18	0.91	0.90	2.9	2.8	4.0	4.0	1.9
F 20 2_61.9	61.9	0.16	0.89	0.88	2.9	2.8	4.0	4.0	1.9
F 20 2_69.1	69.1	0.14	0.87	0.86	2.9	2.8	4.0	4.0	1.8
F 20 2_76.8	76.8	0.12	0.86	0.85	2.9	2.8	4.0	4.0	1.8
F 20 2_90.4	90.4	0.10	0.84	0.82	2.9	2.7	3.9	3.9	1.8
F 20 2_101.6	101.6	0.09	0.80	0.79	2.8	2.7	3.9	3.9	1.8
F 20 2_114.3	114.3	0.08	0.79	0.77	2.8	2.7	3.9	3.9	1.8
F 20 2_132.2	132.2	0.03	0.78	0.77	—	—	—	—	1.8
F 20 3_156.3	156.3	0.04	0.81	0.80	2.8	2.7	3.9	3.9	0.72
F 20 3_172.6	172.6	0.04	0.81	0.80	2.8	2.7	3.9	3.9	0.72
F 20 3_184.9	184.9	0.04	0.81	0.80	2.8	2.7	3.9	3.9	0.72
F 20 3_209.3	209.3	0.03	0.81	0.79	2.8	2.7	3.9	3.9	0.72
F 20 3_234.0	234.0	0.03	0.81	0.79	2.8	2.7	3.9	3.9	0.71
F 20 3_255.3	255.3	0.03	0.80	0.79	2.8	2.7	3.9	3.9	0.71
F 20 3_285.2	285.2	0.03	0.80	0.79	2.8	2.7	3.9	3.9	0.71
F 20 3_316.9	316.9	0.03	0.80	0.79	2.8	2.7	3.9	3.9	0.71
F 20 3_372.9	372.9	0.03	0.80	0.79	2.8	2.7	3.9	3.9	0.71
F 20 3_419.3	419.3	0.03	0.80	0.79	2.8	2.7	3.9	3.9	0.66
F 20 3_471.7	471.7	0.03	0.80	0.79	2.8	2.7	3.9	3.9	0.66
F 20 3_545.3	545.3	0.03	0.80	0.79	2.8	2.7	3.9	3.9	0.66




## F 20

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]				
			N56C	 NEMA N140TC	N180TC	
F 20 2_6.4	6.4	2.2	—	—	5.0	3.9
F 20 2_7.8	7.8	1.5	—	—	4.3	3.3
F 20 2_8.7	8.7	1.3	2.0	2.0	4.1	3.0
F 20 2_10.0	10.0	1.0	1.8	1.8	3.8	2.7
F 20 2_11.2	11.2	0.88	1.6	1.6	3.6	2.6
F 20 2_14.8	14.8	1.2	—	—	4.0	2.9
F 20 2_18.1	18.1	0.90	—	—	3.7	2.6
F 20 2_20.2	20.2	0.78	1.5	1.5	3.5	2.5
F 20 2_23.1	23.1	0.64	1.4	1.4	3.4	2.4
F 20 2_25.9	25.9	0.57	1.3	1.3	3.3	2.3
F 20 2_30.4	30.4	0.41	1.1	1.1	3.2	2.1
F 20 2_33.1	33.1	0.36	1.1	1.1	3.1	2.1
F 20 2_37.9	37.9	0.30	1.0	1.0	3.1	2.0
F 20 2_41.8	41.8	0.27	1.0	1.0	3.0	2.0
F 20 2_44.8	44.8	0.24	1.0	1.0	3.0	2.0
F 20 2_50.7	50.7	0.21	0.93	0.93	3.0	1.9
F 20 2_56.7	56.7	0.18	0.91	0.91	2.9	1.9
F 20 2_61.9	61.9	0.16	0.89	0.89	2.9	1.9
F 20 2_69.1	69.1	0.14	0.87	0.87	2.9	1.8
F 20 2_76.8	76.8	0.12	0.86	0.86	2.9	1.8
F 20 2_90.4	90.4	0.10	0.84	0.84	2.9	1.8
F 20 2_101.6	101.6	0.09	0.80	0.80	2.8	1.8
F 20 2_114.3	114.3	0.08	0.79	0.79	2.8	1.8
F 20 2_132.2	132.2	0.03	0.78	0.78	—	1.8
F 20 3_156.3	156.3	0.04	0.81	0.81	2.8	0.72
F 20 3_172.6	172.6	0.04	0.81	0.81	2.8	0.72
F 20 3_184.9	184.9	0.04	0.81	0.81	2.8	0.72
F 20 3_209.3	209.3	0.03	0.81	0.81	2.8	0.72
F 20 3_234.0	234.0	0.03	0.81	0.81	2.8	0.71
F 20 3_255.3	255.3	0.03	0.80	0.80	2.8	0.71
F 20 3_285.2	285.2	0.03	0.80	0.80	2.8	0.71
F 20 3_316.9	316.9	0.03	0.80	0.80	2.8	0.71
F 20 3_372.9	372.9	0.03	0.80	0.80	2.8	0.71
F 20 3_419.3	419.3	0.03	0.80	0.80	2.8	0.66
F 20 3_471.7	471.7	0.03	0.80	0.80	2.8	0.66
F 20 3_545.3	545.3	0.03	0.80	0.80	2.8	0.66






## F 20

		J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]									
i											
		60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 20 2_6.4	6.4	—	—	—	—	—	—	5.0	5.5	4.8	5.8
F 20 2_7.8	7.8	—	—	—	—	—	—	4.3	4.8	4.2	5.2
F 20 2_8.7	8.7	1.6	1.8	1.6	2.0	4.1	4.6	4.1	4.6	3.9	4.9
F 20 2_10.0	10.0	1.3	1.5	1.3	1.7	3.8	4.3	3.8	4.3	3.7	4.7
F 20 2_11.2	11.2	1.2	1.4	1.2	1.6	3.7	4.1	3.6	4.1	3.5	4.5
F 20 2_14.8	14.8	—	—	—	—	—	—	4.0	4.5	3.9	4.9
F 20 2_18.1	18.1	—	—	—	—	—	—	3.7	4.2	3.5	4.5
F 20 2_20.2	20.2	1.1	1.3	1.1	1.5	3.6	4.0	3.5	4.0	3.4	4.4
F 20 2_23.1	23.1	0.91	1.2	0.93	1.4	3.5	3.9	3.4	3.9	3.3	4.3
F 20 2_25.9	25.9	0.84	1.1	0.86	1.3	3.4	3.8	3.3	3.8	3.2	4.2
F 20 2_30.4	30.4	0.68	0.94	0.70	1.1	3.2	3.7	3.2	3.7	3.0	4.0
F 20 2_33.1	33.1	0.63	0.89	0.65	1.1	3.2	3.6	3.1	3.6	3.0	4.0
F 20 2_37.9	37.9	0.47	0.83	0.59	1.0	3.1	3.6	3.1	3.6	2.9	3.9
F 20 2_41.8	41.8	0.44	0.80	0.56	1.0	3.1	3.5	3.0	3.5	2.9	3.9
F 20 2_44.8	44.8	0.41	0.77	0.53	0.97	3.1	3.5	3.0	3.5	2.9	3.9
F 20 2_50.7	50.7	0.48	0.74	0.50	0.94	3.0	3.5	3.0	3.5	2.8	3.8
F 20 2_56.7	56.7	0.45	0.71	0.47	0.91	3.0	3.4	2.9	3.4	2.8	3.8
F 20 2_61.9	61.9	0.43	0.69	0.45	0.89	3.0	3.4	2.9	3.4	2.8	3.8
F 20 2_69.1	69.1	0.41	0.67	0.43	0.87	3.0	3.4	2.9	3.4	2.8	3.8
F 20 2_76.8	76.8	0.39	0.65	0.41	0.85	2.9	3.4	2.9	3.4	2.8	3.8
F 20 2_90.4	90.4	0.37	0.63	0.39	0.83	2.9	3.4	2.9	3.4	2.7	3.7
F 20 2_101.6	101.6	0.36	0.62	—	—	—	—	2.8	3.3	2.7	3.7
F 20 2_114.3	114.3	0.35	0.61	—	—	—	—	2.8	3.3	2.7	3.7
F 20 2_132.2	132.2	0.30	0.56	—	—	—	—	—	—	—	—
F 20 3_156.3	156.3	0.31	0.57	0.33	0.77	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_172.6	172.6	0.31	0.57	0.33	0.77	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_184.9	184.9	0.31	0.57	0.33	0.77	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_209.3	209.3	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_234.0	234.0	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_255.3	255.3	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_285.2	285.2	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_316.9	316.9	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_372.9	372.9	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_419.3	419.3	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_471.7	471.7	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_545.3	545.3	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7






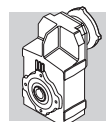
## F 25

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]							
			63	71	80	90	100	112	
F 25 2_6.9	6.9	2.7	—	—	5.4	5.3	6.5	6.5	4.4
F 25 2_8.4	8.4	1.9	—	—	4.6	4.5	5.7	5.7	3.6
F 25 2_9.4	9.4	1.6	2.3	2.3	4.3	4.2	5.4	5.4	3.3
F 25 2_10.6	10.6	1.9	—	—	4.6	4.5	5.7	5.7	3.6
F 25 2_13.0	13.0	1.3	—	—	4.1	4.0	5.2	5.2	3.0
F 25 2_14.5	14.5	1.1	1.8	1.8	3.9	3.8	5.0	5.0	2.8
F 25 2_16.6	16.6	0.90	1.6	1.6	3.7	3.5	4.7	4.7	2.6
F 25 2_18.6	18.6	0.77	1.5	1.5	3.5	3.4	4.6	4.6	2.5
F 25 2_21.8	21.8	0.57	1.3	1.3	3.3	3.2	4.4	4.4	2.3
F 25 2_23.8	23.8	0.48	1.2	1.2	3.2	3.1	4.3	4.3	2.2
F 25 2_27.2	27.2	0.40	1.1	1.1	3.2	3.0	4.2	4.2	2.1
F 25 2_30.0	30.0	0.35	1.1	1.1	3.1	3.0	4.2	4.2	2.1
F 25 2_32.2	32.2	0.31	1.0	1.0	3.1	2.9	4.2	4.2	2.0
F 25 2_36.4	36.4	0.26	1.0	1.0	3.0	2.9	4.1	4.1	2.0
F 25 2_40.7	40.7	0.22	1.0	0.94	3.0	2.9	4.1	4.1	1.9
F 25 2_44.4	44.4	0.20	0.93	0.92	3.0	2.8	4.0	4.0	1.9
F 25 3_45.6	45.6	0.79	—	—	3.6	3.4	4.6	4.6	2.5
F 25 3_50.8	50.8	0.70	1.4	1.4	3.5	3.3	4.5	4.5	2.4
F 25 3_58.3	58.3	0.58	1.3	1.3	3.3	3.2	4.4	4.4	2.3
F 25 3_65.3	65.3	0.52	1.2	1.2	3.3	3.1	4.4	4.4	2.2
F 25 3_76.6	76.6	0.38	1.1	1.1	3.1	3.0	4.2	4.2	2.1
F 25 3_83.4	83.4	0.32	1.0	1.0	3.1	3.0	4.2	4.2	2.0
F 25 3_95.5	95.5	0.28	1.0	1.0	3.0	2.9	4.1	4.1	2.0
F 25 3_105.4	105.4	0.25	1.0	1.0	3.0	2.9	4.1	4.1	2.0
F 25 3_113.0	113.0	0.23	0.95	0.94	3.0	2.9	4.1	4.1	1.9
F 25 3_127.8	127.8	0.20	0.92	0.91	3.0	2.8	4.0	4.0	1.9
F 25 3_143.0	143.0	0.17	0.90	0.89	2.9	2.8	4.0	4.0	1.9
F 25 3_155.9	155.9	0.15	0.88	0.87	2.9	2.8	4.0	4.0	1.9
F 25 3_174.2	174.2	0.13	0.87	0.86	2.9	2.8	4.0	4.0	1.8
F 25 3_193.6	193.6	0.12	0.85	0.84	2.9	2.7	4.0	4.0	1.8
F 25 3_227.8	227.8	0.10	0.83	0.82	2.9	2.7	3.9	3.9	1.8
F 25 3_256.1	256.1	0.09	0.79	0.78	2.8	2.7	3.9	3.9	1.8
F 25 3_288.1	288.1	0.08	0.78	0.77	2.8	2.7	3.9	3.9	1.8
F 25 3_333.1	333.1	0.03	0.78	0.76	—	—	—	—	1.8
F 25 4_393.9	393.9	0.02	0.80	0.78	2.8	2.7	3.9	3.9	0.70
F 25 4_434.9	434.9	0.02	0.79	0.78	2.8	2.7	3.9	3.9	0.70
F 25 4_466.0	466.0	0.02	0.79	0.78	2.8	2.7	3.9	3.9	0.70
F 25 4_527.3	527.3	0.02	0.79	0.78	2.8	2.7	3.9	3.9	0.70
F 25 4_589.7	589.7	0.02	0.79	0.78	2.8	2.7	3.9	3.9	0.70
F 25 4_643.3	643.3	0.02	0.79	0.78	2.8	2.7	3.9	3.9	0.70
F 25 4_718.7	718.7	0.02	0.79	0.78	2.8	2.7	3.9	3.9	0.70
F 25 4_798.5	798.5	0.01	0.79	0.77	2.8	2.7	3.9	3.9	0.70
F 25 4_939.8	939.8	0.01	0.79	0.77	2.8	2.7	3.9	3.9	0.69
F 25 4_1057	1057	0.01	0.79	0.77	2.8	2.7	3.9	3.9	0.64
F 25 4_1189	1189	0.01	0.78	0.77	2.8	2.7	3.9	3.9	0.64
F 25 4_1374	1374	0.01	0.78	0.77	2.8	2.7	3.9	3.9	0.64




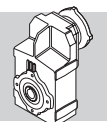
## F 25

	i	J (•10 <sup>-4</sup> ) [kgm <sup>2</sup> ]				
			N56C	 NEMA N140TC	N180TC	
F 25 2_6.9	6.9	2.7	—	—	5.4	4.4
F 25 2_8.4	8.4	1.9	—	—	4.6	3.6
F 25 2_9.4	9.4	1.6	2.3	2.3	4.3	3.3
F 25 2_10.6	10.6	1.9	—	—	4.6	3.6
F 25 2_13.0	13.0	1.3	—	—	4.1	3.0
F 25 2_14.5	14.5	1.1	1.8	1.8	3.9	2.8
F 25 2_16.6	16.6	0.90	1.6	1.6	3.7	2.6
F 25 2_18.6	18.6	0.77	1.5	1.5	3.5	2.5
F 25 2_21.8	21.8	0.57	1.3	1.3	3.3	2.3
F 25 2_23.8	23.8	0.48	1.2	1.2	3.2	2.2
F 25 2_27.2	27.2	0.40	1.1	1.1	3.2	2.1
F 25 2_30.0	30.0	0.35	1.1	1.1	3.1	2.1
F 25 2_32.2	32.2	0.31	1.0	1.0	3.1	2.0
F 25 2_36.4	36.4	0.26	1.0	1.0	3.0	2.0
F 25 2_40.7	40.7	0.22	1.0	1.0	3.0	1.9
F 25 2_44.4	44.4	0.20	0.93	0.93	3.0	1.9
F 25 3_45.6	45.6	0.79	—	—	3.6	2.5
F 25 3_50.8	50.8	0.70	1.4	1.4	3.5	2.4
F 25 3_58.3	58.3	0.58	1.3	1.3	3.3	2.3
F 25 3_65.3	65.3	0.52	1.2	1.2	3.3	2.2
F 25 3_76.6	76.6	0.38	1.1	1.1	3.1	2.1
F 25 3_83.4	83.4	0.32	1.0	1.0	3.1	2.0
F 25 3_95.5	95.5	0.28	1.0	1.0	3.0	2.0
F 25 3_105.4	105.4	0.25	1.0	1.0	3.0	2.0
F 25 3_113.0	113.0	0.23	0.95	0.95	3.0	1.9
F 25 3_127.8	127.8	0.20	0.92	0.92	3.0	1.9
F 25 3_143.0	143.0	0.17	0.90	0.90	2.9	1.9
F 25 3_155.9	155.9	0.15	0.88	0.88	2.9	1.9
F 25 3_174.2	174.2	0.13	0.87	0.87	2.9	1.8
F 25 3_193.6	193.6	0.12	0.85	0.85	2.9	1.8
F 25 3_227.8	227.8	0.10	0.83	0.83	2.9	1.8
F 25 3_256.1	256.1	0.09	0.79	0.79	2.8	1.8
F 25 3_288.1	288.1	0.08	0.78	0.78	2.8	1.8
F 25 3_333.1	333.1	0.03	0.78	0.78	—	1.8
F 25 4_393.9	393.9	0.02	0.80	0.80	2.8	0.70
F 25 4_434.9	434.9	0.02	0.79	0.79	2.8	0.70
F 25 4_466.0	466.0	0.02	0.79	0.79	2.8	0.70
F 25 4_527.3	527.3	0.02	0.79	0.79	2.8	0.70
F 25 4_589.7	589.7	0.02	0.79	0.79	2.8	0.70
F 25 4_643.3	643.3	0.02	0.79	0.79	2.8	0.70
F 25 4_718.7	718.7	0.02	0.79	0.79	2.8	0.70
F 25 4_798.5	798.5	0.01	0.79	0.79	2.8	0.70
F 25 4_939.8	939.8	0.01	0.79	0.79	2.8	0.69
F 25 4_1057	1057	0.01	0.79	0.79	2.8	0.64
F 25 4_1189	1189	0.01	0.78	0.78	2.8	0.64
F 25 4_1374	1374	0.01	0.78	0.78	2.8	0.64





# F 25

		J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]									
		 SERVO									
	i	60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 25 2_6.9	6.9	—	—	—	—	—	—	5.4	5.9	5.3	6.3
F 25 2_8.4	8.4	—	—	—	—	—	—	4.6	5.1	4.5	5.5
F 25 2_9.4	9.4	1.9	2.1	1.9	2.3	4.4	4.9	4.3	4.8	4.2	5.2
F 25 2_10.6	10.6	—	—	—	—	—	—	4.6	5.1	4.5	5.5
F 25 2_13.0	13.0	—	—	—	—	—	—	4.1	4.6	4.0	5.0
F 25 2_14.5	14.5	1.4	1.6	1.4	1.8	3.9	4.4	3.9	4.4	3.8	4.8
F 25 2_16.6	16.6	1.2	1.4	1.2	1.6	3.7	4.2	3.7	4.2	3.5	4.5
F 25 2_18.6	18.6	1.0	1.3	1.1	1.5	3.6	4.0	3.5	4.0	3.4	4.4
F 25 2_21.8	21.8	0.84	1.1	0.86	1.3	3.4	3.8	3.3	3.8	3.2	4.2
F 25 2_23.8	23.8	0.75	1.0	0.77	1.2	3.3	3.7	3.2	3.7	3.1	4.1
F 25 2_27.2	27.2	0.67	0.93	0.69	1.1	3.2	3.7	3.2	3.7	3.0	4.0
F 25 2_30.0	30.0	0.62	0.88	0.64	1.1	3.2	3.6	3.1	3.6	3.0	4.0
F 25 2_32.2	32.2	0.58	0.84	1.4	1.8	3.1	3.6	3.1	3.6	2.9	3.9
F 25 2_36.4	36.4	0.53	0.79	0.55	0.99	3.1	3.5	3.0	3.5	2.9	3.9
F 25 2_40.7	40.7	0.49	0.75	0.51	0.95	3.0	3.5	3.0	3.5	2.9	3.9
F 25 2_44.4	44.4	0.47	0.73	0.49	0.93	3.0	3.5	3.0	3.5	2.8	3.8
F 25 3_45.6	45.6	1.1	1.3	1.1	1.5	3.6	4.0	3.6	4.1	3.4	4.4
F 25 3_50.8	50.8	0.97	1.2	0.99	1.4	3.5	4.0	3.5	4.0	3.3	4.3
F 25 3_58.3	58.3	0.85	1.1	0.87	1.3	3.4	3.8	3.3	3.8	3.2	4.2
F 25 3_65.3	65.3	0.79	1.1	0.84	1.2	3.3	3.8	3.3	3.8	3.1	4.1
F 25 3_76.6	76.6	0.65	0.91	0.67	1.1	3.2	3.6	3.1	3.6	3.0	4.0
F 25 3_83.4	83.4	0.59	0.85	0.61	1.0	3.1	3.6	3.1	3.6	3.0	4.0
F 25 3_95.5	95.5	0.55	0.81	0.57	1.0	3.1	3.5	3.0	3.5	2.9	3.9
F 25 3_105.4	105.4	0.52	0.78	0.54	0.98	3.1	3.5	3.0	3.5	2.9	3.9
F 25 3_113.0	113.0	0.50	0.76	0.52	0.96	3.1	3.5	3.0	3.5	2.9	3.9
F 25 3_127.8	127.8	0.47	0.73	0.49	0.93	3.0	3.5	3.0	3.5	2.8	3.8
F 25 3_143.0	143.0	0.44	0.70	0.46	0.90	3.0	3.4	2.9	3.4	2.8	3.8
F 25 3_155.9	155.9	0.42	0.68	0.44	0.88	3.0	3.4	2.9	3.4	2.8	3.8
F 25 3_174.2	174.2	0.40	0.66	0.42	0.86	3.0	3.4	2.9	3.4	2.8	3.8
F 25 3_193.6	193.6	0.39	0.65	0.41	0.85	2.9	3.4	2.9	3.4	2.7	3.7
F 25 3_227.8	227.8	0.37	0.63	0.39	0.83	2.9	3.4	2.9	3.4	2.7	3.7
F 25 3_256.1	256.1	0.36	0.62	—	—	—	—	2.8	3.3	2.7	3.7
F 25 3_288.1	288.1	0.35	0.61	—	—	—	—	2.8	3.3	2.7	3.7
F 25 3_333.1	333.1	0.30	0.56	—	—	—	—	—	—	—	—
F 25 4_393.9	393.9	0.29	0.55	0.31	0.75	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_434.9	434.9	0.29	0.55	0.31	0.75	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_466.0	466.0	0.29	0.55	0.31	0.75	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_527.3	527.3	0.29	0.55	0.31	0.75	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_589.7	589.7	0.29	0.55	0.31	0.75	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_643.3	643.3	0.29	0.55	0.31	0.75	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_718.7	718.7	0.29	0.55	0.31	0.75	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_798.5	798.5	0.28	0.54	0.30	0.74	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_939.8	939.8	0.28	0.54	0.30	0.74	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_1057	1057	0.28	0.54	0.30	0.74	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_1189	1189	0.28	0.54	0.30	0.74	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_1374	1374	0.28	0.54	0.30	0.74	2.8	3.3	2.8	3.3	2.7	3.7






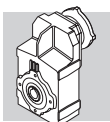
# F 31

	i	J (•10 <sup>-4</sup> ) [kgm <sup>2</sup> ]								
			63	71	80	90 	100	112	132	
F 31 2_6.9	6.9	5.0	—	—	7.8	7.6	8.9	8.9	22	7.1
F 31 2_8.2	8.2	3.7	—	—	6.5	6.3	7.5	7.5	20	5.8
F 31 2_9.0	9.0	3.2	—	—	6.0	5.8	7.0	7.0	20	5.3
F 31 2_10.7	10.7	3.5	—	—	6.3	6.2	7.4	7.4	20	5.6
F 31 2_12.7	12.7	2.6	—	—	5.4	5.3	6.5	6.5	19	4.7
F 31 2_13.9	13.9	2.3	—	—	5.1	4.9	6.2	6.2	19	4.4
F 31 2_16.8	16.8	1.8	—	—	4.6	4.4	5.6	5.6	18	3.9
F 31 2_18.5	18.5	1.5	2.2	2.2	4.2	4.1	5.3	5.3	18	3.5
F 31 2_21.1	21.1	1.1	1.8	1.8	3.9	3.7	5.0	5.0	18	3.2
F 31 2_23.4	23.4	1.0	1.7	1.7	3.7	3.6	4.8	4.8	18	3.0
F 31 2_27.3	27.3	0.78	1.5	1.5	3.5	3.4	4.6	4.6	17	2.8
F 31 2_30.1	30.1	0.65	1.4	1.4	3.4	3.3	4.5	4.5	17	2.7
F 31 2_34.4	34.4	0.53	1.3	1.2	3.3	3.2	4.4	4.4	17	2.6
F 31 2_37.7	37.7	0.47	1.2	1.2	3.2	3.1	4.3	4.3	17	2.5
F 31 2_40.4	40.4	0.42	1.1	1.1	3.2	3.0	4.3	4.3	—	2.5
F 31 2_44.6	44.6	0.37	1.1	1.1	3.1	3.0	4.2	4.2	—	2.4
F 31 3_47.5	47.5	1.6	—	—	4.3	4.2	5.4	5.4	18	3.6
F 31 3_52.1	52.1	1.4	—	—	4.2	4.0	5.3	5.3	18	3.5
F 31 3_62.8	62.8	1.2	—	—	3.9	3.8	5.0	5.0	18	3.2
F 31 3_69.1	69.1	1.0	1.7	1.7	3.7	3.6	4.8	4.8	18	3.0
F 31 3_78.9	78.9	0.72	1.4	1.4	3.5	3.4	4.6	4.6	17	2.8
F 31 3_87.4	87.4	0.66	1.4	1.4	3.4	3.3	4.5	4.5	17	2.7
F 31 3_101.9	101.9	0.54	1.3	1.2	3.3	3.2	4.4	4.4	17	2.6
F 31 3_112.5	112.5	0.46	1.2	1.2	3.2	3.1	4.3	4.3	17	2.5
F 31 3_128.4	128.4	0.38	1.1	1.1	3.1	3.0	4.2	4.2	17	2.4
F 31 3_140.7	140.7	0.35	1.1	1.1	3.1	3.0	4.2	4.2	17	2.4
F 31 3_150.8	150.8	0.31	1.0	1.0	3.1	2.9	4.2	4.2	—	2.4
F 31 3_166.8	166.8	0.28	1.0	1.0	3.0	2.9	4.1	4.1	—	2.3
F 31 3_185.4	185.4	0.24	1.0	1.0	3.0	2.9	4.1	4.1	—	2.3
F 31 3_202.3	202.3	0.21	0.94	0.93	3.0	2.8	4.1	4.1	—	2.3
F 31 3_228.2	228.2	0.18	0.92	0.90	2.9	2.8	4.0	4.0	—	2.2
F 31 3_253.6	253.6	0.16	0.89	0.88	2.9	2.8	4.0	4.0	—	2.2
F 31 3_293.8	293.8	0.13	0.86	0.85	2.9	2.8	4.0	4.0	—	2.2
F 31 3_332.8	332.8	0.11	0.82	0.81	2.9	2.7	4.0	4.0	—	2.2
F 31 3_374.4	374.4	0.10	0.81	0.79	2.9	2.7	3.9	3.9	—	2.2
F 31 4_418.9	418.9	0.09	0.86	0.85	2.9	2.8	3.9	3.9	—	0.77
F 31 4_462.6	462.6	0.08	0.86	0.84	2.9	2.7	3.9	3.9	—	0.77
F 31 4_527.8	527.8	0.08	0.85	0.84	2.9	2.7	3.9	3.9	—	0.76
F 31 4_578.6	578.6	0.08	0.85	0.84	2.9	2.7	3.9	3.9	—	0.76
F 31 4_619.9	619.9	0.07	0.85	0.83	2.9	2.7	3.9	3.9	—	0.76
F 31 4_685.6	685.6	0.07	0.85	0.83	2.9	2.7	3.9	3.9	—	0.76
F 31 4_762.3	762.3	0.07	0.84	0.83	2.9	2.7	3.9	3.9	—	0.75
F 31 4_831.6	831.6	0.07	0.84	0.83	2.9	2.7	3.9	3.9	—	0.75
F 31 4_938.2	938.2	0.07	0.84	0.83	2.9	2.7	3.9	3.9	—	0.75
F 31 4_1042	1042	0.07	0.84	0.83	2.9	2.7	3.9	3.9	—	0.75
F 31 4_1208	1208	0.06	0.84	0.82	2.9	2.7	3.9	3.9	—	0.75
F 31 4_1368	1368	0.06	0.84	0.82	2.9	2.7	3.9	3.9	—	0.75
F 31 4_1539	1539	0.06	0.84	0.82	2.9	2.7	3.9	3.9	—	0.75




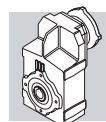
# F 31

	i	J (•10 <sup>-4</sup> ) [kgm <sup>2</sup> ]					
			NEMA 				
			N56C	N140TC	N180TC		N210TC
F 31 2_6.9	6.9	5.0	—	—	7.8	22	7.1
F 31 2_8.2	8.2	3.7	—	—	6.5	20	5.8
F 31 2_9.0	9.0	3.2	—	—	6.0	20	5.3
F 31 2_10.7	10.7	3.5	—	—	6.3	20	5.6
F 31 2_12.7	12.7	2.6	—	—	5.4	19	4.7
F 31 2_13.9	13.9	2.3	—	—	5.1	19	4.4
F 31 2_16.8	16.8	1.8	—	—	4.6	18	3.9
F 31 2_18.5	18.5	1.5	2.2	2.2	4.2	18	3.5
F 31 2_21.1	21.1	1.1	1.8	1.8	3.9	18	3.2
F 31 2_23.4	23.4	1.0	1.7	1.7	3.7	18	3.0
F 31 2_27.3	27.3	0.78	1.5	1.5	3.5	17	2.8
F 31 2_30.1	30.1	0.65	1.4	1.4	3.4	17	2.7
F 31 2_34.4	34.4	0.53	1.3	1.3	3.3	17	2.6
F 31 2_37.7	37.7	0.47	1.2	1.2	3.2	17	2.5
F 31 2_40.4	40.4	0.42	1.1	1.1	3.2	—	2.5
F 31 2_44.6	44.6	0.37	1.1	1.1	3.1	—	2.4
F 31 3_47.5	47.5	1.6	—	—	4.3	18	3.6
F 31 3_52.1	52.1	1.4	—	—	4.2	18	3.5
F 31 3_62.8	62.8	1.2	—	—	3.9	18	3.2
F 31 3_69.1	69.1	1.0	1.7	1.7	3.7	18	3.0
F 31 3_78.9	78.9	0.72	1.4	1.4	3.5	17	2.8
F 31 3_87.4	87.4	0.66	1.4	1.4	3.4	17	2.7
F 31 3_101.9	101.9	0.54	1.3	1.3	3.3	17	2.6
F 31 3_112.5	112.5	0.46	1.2	1.2	3.2	17	2.5
F 31 3_128.4	128.4	0.38	1.1	1.1	3.1	17	2.4
F 31 3_140.7	140.7	0.35	1.1	1.1	3.1	17	2.4
F 31 3_150.8	150.8	0.31	1.0	1.0	3.1	—	2.4
F 31 3_166.8	166.8	0.28	1.0	1.0	3.0	—	2.3
F 31 3_185.4	185.4	0.24	1.0	1.0	3.0	—	2.3
F 31 3_202.3	202.3	0.21	0.94	0.94	3.0	—	2.3
F 31 3_228.2	228.2	0.18	0.92	0.92	2.9	—	2.2
F 31 3_253.6	253.6	0.16	0.89	0.89	2.9	—	2.2
F 31 3_293.8	293.8	0.13	0.86	0.86	2.9	—	2.2
F 31 3_332.8	332.8	0.11	0.82	0.82	2.9	—	2.2
F 31 3_374.4	374.4	0.10	0.81	0.81	2.9	—	2.2
F 31 4_418.9	418.9	0.09	0.86	0.86	2.9	—	0.77
F 31 4_462.6	462.6	0.08	0.86	0.86	2.9	—	0.77
F 31 4_527.8	527.8	0.08	0.85	0.85	2.9	—	0.76
F 31 4_578.6	578.6	0.08	0.85	0.85	2.9	—	0.76
F 31 4_619.9	619.9	0.07	0.85	0.85	2.9	—	0.76
F 31 4_685.6	685.6	0.07	0.85	0.85	2.9	—	0.76
F 31 4_762.3	762.3	0.07	0.84	0.84	2.9	—	0.75
F 31 4_831.6	831.6	0.07	0.84	0.84	2.9	—	0.75
F 31 4_938.2	938.2	0.07	0.84	0.84	2.9	—	0.75
F 31 4_1042	1042	0.07	0.84	0.84	2.9	—	0.75
F 31 4_1208	1208	0.06	0.84	0.84	2.9	—	0.75
F 31 4_1368	1368	0.06	0.84	0.84	2.9	—	0.75
F 31 4_1539	1539	0.06	0.84	0.84	2.9	—	0.75





# F 31

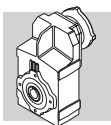
		J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]											
													
	i	60A		60B 80A		95A		80C 95B 110A		95C 110B		130A	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 31 2_6.9	6.9	—	—	—	—	—	—	7.8	8.3	7.6	8.6	7.6	8.6
F 31 2_8.2	8.2	—	—	—	—	—	—	6.5	7.0	6.3	7.3	6.3	7.3
F 31 2_9.0	9.0	—	—	—	—	—	—	6.0	6.5	5.8	6.8	5.8	6.8
F 31 2_10.7	10.7	—	—	—	—	—	—	6.3	6.8	6.2	7.2	6.2	7.2
F 31 2_12.7	12.7	—	—	—	—	—	—	5.4	5.9	5.3	6.3	5.3	6.3
F 31 2_13.9	13.9	—	—	—	—	—	—	5.1	5.6	4.9	5.9	4.9	5.9
F 31 2_16.8	16.8	—	—	—	—	—	—	4.6	5.1	4.4	5.4	4.4	5.4
F 31 2_18.5	18.5	1.8	2.0	1.8	2.2	4.3	4.8	4.2	4.7	4.1	5.1	4.1	5.1
F 31 2_21.1	21.1	1.4	1.6	1.4	1.8	3.9	4.3	3.9	4.4	3.7	4.7	3.7	4.7
F 31 2_23.4	23.4	1.3	1.5	1.3	1.7	3.8	4.3	3.7	4.2	3.6	4.6	3.6	4.6
F 31 2_27.3	27.3	1.1	1.3	1.1	1.5	3.6	4.0	3.5	4.0	3.4	4.4	3.4	4.4
F 31 2_30.1	30.1	0.92	1.2	0.94	1.4	3.5	3.9	3.4	3.9	3.3	4.3	3.3	4.3
F 31 2_34.4	34.4	0.80	1.1	0.82	1.3	3.4	3.8	3.3	3.8	3.2	4.2	3.2	4.2
F 31 2_37.7	37.7	0.74	1.0	0.76	1.2	3.3	3.7	3.2	3.7	3.1	4.1	3.1	4.1
F 31 2_40.4	40.4	0.69	0.95	0.71	1.1	3.2	3.7	3.2	3.7	3.0	4.0	3.0	4.0
F 31 2_44.6	44.6	0.64	0.90	0.66	1.1	3.2	3.6	3.1	3.6	3.0	4.0	3.0	4.0
F 31 3_47.5	47.5	—	—	—	—	—	—	4.3	4.8	4.2	5.2	4.2	5.2
F 31 3_52.1	52.1	—	—	—	—	—	—	4.2	4.7	4.0	5.0	4.0	5.0
F 31 3_62.8	62.8	—	—	—	—	—	—	3.9	4.4	3.8	4.8	3.8	4.8
F 31 3_69.1	69.1	1.3	1.5	1.3	1.7	3.8	4.3	3.7	4.2	3.6	4.6	3.6	4.6
F 31 3_78.9	78.9	0.99	1.3	1.0	1.4	3.5	4.0	3.5	4.0	3.4	4.4	3.4	4.4
F 31 3_87.4	87.4	0.93	1.2	0.95	1.4	3.5	3.9	3.4	3.9	3.3	4.3	3.3	4.3
F 31 3_101.9	101.9	0.81	1.1	0.83	1.3	3.4	3.8	3.3	3.8	3.2	4.2	3.2	4.2
F 31 3_112.5	112.5	0.73	0.99	0.75	1.2	3.3	3.7	3.2	3.7	3.1	4.1	3.1	4.1
F 31 3_128.4	128.4	0.65	0.91	0.67	1.1	3.2	3.6	3.1	3.6	3.0	4.0	3.0	4.0
F 31 3_140.7	140.7	0.62	0.88	0.64	1.1	3.2	3.6	3.1	3.6	3.0	4.0	3.0	4.0
F 31 3_150.8	150.8	0.58	0.84	0.60	1.0	3.1	3.6	3.1	3.6	2.9	3.9	2.9	3.9
F 31 3_166.8	166.8	0.55	0.81	0.57	1.0	3.1	3.5	3.0	3.5	2.9	3.9	2.9	3.9
F 31 3_185.4	185.4	0.51	0.77	0.53	0.97	3.1	3.5	3.0	3.5	2.9	3.9	2.9	3.9
F 31 3_202.3	202.3	0.48	0.74	0.50	0.93	3.0	3.5	3.0	3.5	2.8	3.8	2.8	3.8
F 31 3_228.2	228.2	0.45	0.71	0.47	0.91	3.0	3.4	2.9	3.4	2.8	3.8	2.8	3.8
F 31 3_253.6	253.6	0.43	0.69	0.45	0.89	3.0	3.4	2.9	3.4	2.8	3.8	2.8	3.8
F 31 3_293.8	293.8	0.40	0.66	0.42	0.86	3.0	3.4	2.9	3.4	2.8	3.8	2.8	3.8
F 31 3_332.8	332.8	0.38	0.64	—	—	—	—	2.9	3.4	2.7	3.7	2.7	3.7
F 31 3_374.4	374.4	0.37	0.63	—	—	—	—	2.9	3.4	2.7	3.7	2.7	3.7
F 31 4_418.9	418.9	0.36	0.62	0.38	0.82	2.9	3.3	2.9	3.4	2.8	3.8	—	—
F 31 4_462.6	462.6	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_527.8	527.8	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_578.6	578.6	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_619.9	619.9	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_685.6	685.6	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_762.3	762.3	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_831.6	831.6	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_938.2	938.2	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_1042	1042	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_1208	1208	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_1368	1368	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_1539	1539	0.83	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.7	3.7	—	—





# F 41

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]								
			63	71	80	90 	100	112	132	
F 41 2_6.7	6.7	12	—	—	15	15	18	18	29	21
F 41 2_9.1	9.1	7.2	—	—	10	9.8	13	13	24	16
F 41 2_10.8	10.8	8.0	—	—	11	11	13	13	25	17
F 41 2_14.6	14.6	5.0	—	—	7.7	7.6	10	10	21	14
F 41 2_17.1	17.1	3.5	—	—	6.3	6.2	8.9	8.9	20	12
F 41 2_18.9	18.9	3.1	—	—	5.8	5.7	8.5	8.5	20	12
F 41 2_24.1	24.1	2.1	2.8	2.8	4.9	4.8	7.5	7.5	19	11
F 41 2_30.1	30.1	1.5	2.2	2.2	4.3	4.2	6.9	6.9	18	10
F 41 2_38.2	38.2	0.95	1.7	1.7	3.7	3.6	6.3	6.3	17	9.7
F 41 2_47.9	47.9	0.67	1.4	1.4	3.4	3.3	6.0	6.0	17	9.5
F 41 3_51.5	51.5	3.0	—	—	5.7	5.6	8.4	8.4	19	12
F 41 3_60.2	60.2	2.1	—	—	4.9	4.7	7.5	7.5	19	11
F 41 3_66.5	66.5	1.9	—	—	4.7	4.5	7.3	7.3	18	11
F 41 3_84.9	84.9	1.4	2.1	2.1	4.2	4.0	6.8	6.8	18	10
F 41 3_106.0	106.0	1.1	1.8	1.7	3.8	3.7	6.4	6.4	18	9.8
F 41 3_134.4	134.4	0.66	1.4	1.4	3.4	3.3	6.0	6.0	17	9.4
F 41 3_168.7	168.7	0.49	1.2	1.2	3.2	3.1	5.9	5.9	17	9.3
F 41 3_180.7	180.7	0.43	1.1	1.1	3.2	3.1	5.8	5.8	—	9.2
F 41 3_198.9	198.9	0.39	1.1	1.1	3.1	3.0	5.8	5.8	—	9.2
F 41 3_220.1	220.1	0.36	1.1	1.1	3.1	3.0	5.7	5.7	—	9.1
F 41 3_240.1	240.1	0.31	1.0	1.0	3.1	2.9	5.7	5.7	—	9.1
F 41 3_266.9	266.9	0.28	1.0	1.0	3.0	2.9	5.7	5.7	—	9.1
F 41 3_296.6	296.6	0.23	1.0	1.0	3.0	2.9	5.6	5.6	—	9.0
F 41 3_344.8	344.8	0.19	0.92	0.91	2.9	2.8	5.6	5.6	—	9.0
F 41 4_433.7	433.7	0.21	0.94	0.93	3.0	2.8	4.1	4.1	—	1.9
F 41 4_549.8	549.8	0.19	0.92	0.90	2.9	2.8	4.0	4.0	—	1.9
F 41 4_690.1	690.1	0.18	0.91	0.89	2.9	2.8	4.0	4.0	—	1.9
F 41 4_739.4	739.4	0.17	0.90	0.89	2.9	2.8	4.0	4.0	—	1.9
F 41 4_813.8	813.8	0.17	0.90	0.89	2.9	2.8	4.0	4.0	—	1.9
F 41 4_900.5	900.5	0.17	0.90	0.89	2.9	2.8	4.0	4.0	—	1.9
F 41 4_982.4	982.4	0.17	0.90	0.88	2.9	2.8	4.0	4.0	—	1.9
F 41 4_1092	1092	0.16	0.89	0.88	2.9	2.8	4.0	4.0	—	1.9
F 41 4_1213	1213	0.16	0.89	0.88	2.9	2.8	4.0	4.0	—	1.9
F 41 4_1411	1411	0.16	0.89	0.88	2.9	2.8	4.0	4.0	—	1.9






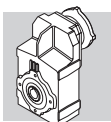
# F 41

	i	J (•10-4) [kgm <sup>2</sup> ]					
			 NEMA	N56C	N140TC	N180TC	
F 41 2_6.7	6.7	12	—	—	15	29	21
F 41 2_9.1	9.1	7.2	—	—	10	24	16
F 41 2_10.8	10.8	8.0	—	—	11	25	17
F 41 2_14.6	14.6	5.0	—	—	7.7	21	14
F 41 2_17.1	17.1	3.5	—	—	6.3	20	12
F 41 2_18.9	18.9	3.1	—	—	5.8	20	12
F 41 2_24.1	24.1	2.1	2.8	2.8	4.9	19	11
F 41 2_30.1	30.1	1.5	2.2	2.2	4.3	18	10
F 41 2_38.2	38.2	0.95	1.7	1.7	3.7	17	9.7
F 41 2_47.9	47.9	0.67	1.4	1.4	3.4	17	9.5
F 41 3_51.5	51.5	3.0	—	—	5.7	19	12
F 41 3_60.2	60.2	2.1	—	—	4.9	19	11
F 41 3_66.5	66.5	1.9	—	—	4.7	18	11
F 41 3_84.9	84.9	1.4	2.1	2.1	4.2	18	10
F 41 3_106.0	106.0	1.1	1.8	1.8	3.8	18	9.8
F 41 3_134.4	134.4	0.66	1.4	1.4	3.4	17	9.4
F 41 3_168.7	168.7	0.49	1.2	1.2	3.2	17	9.3
F 41 3_180.7	180.7	0.43	1.1	1.1	3.2	—	9.2
F 41 3_198.9	198.9	0.39	1.1	1.1	3.1	—	9.2
F 41 3_220.1	220.1	0.36	1.1	1.1	3.1	—	9.1
F 41 3_240.1	240.1	0.31	1.0	1.0	3.1	—	9.1
F 41 3_266.9	266.9	0.28	1.0	1.0	3.0	—	9.1
F 41 3_296.6	296.6	0.23	1.0	1.0	3.0	—	9.0
F 41 3_344.8	344.8	0.19	0.92	0.92	2.9	—	9.0
F 41 4_433.7	433.7	0.21	0.94	0.94	3.0	—	1.9
F 41 4_549.8	549.8	0.19	0.92	0.92	2.9	—	1.9
F 41 4_690.1	690.1	0.18	0.91	0.91	2.9	—	1.9
F 41 4_739.4	739.4	0.17	0.90	0.90	2.9	—	1.9
F 41 4_813.8	813.8	0.17	0.90	0.90	2.9	—	1.9
F 41 4_900.5	900.5	0.17	0.90	0.90	2.9	—	1.9
F 41 4_982.4	982.4	0.17	0.90	0.90	2.9	—	1.9
F 41 4_1092	1092	0.16	0.89	0.89	2.9	—	1.9
F 41 4_1213	1213	0.16	0.89	0.89	2.9	—	1.9
F 41 4_1411	1411	0.16	0.89	0.89	2.9	—	1.9





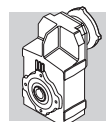
# F 41

		J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]																	
		 SERVO																	
	i	60A		60B 80A		80B		95A		80C 95B 110A		95C 110B		130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 41 2_6.7	6.7	—	—	—	—	—	—	—	—	15	16	15	16	15	16	29	31	29	34
F 41 2_9.1	9.1	—	—	—	—	—	—	—	—	10	11	9.8	11	9.8	11	24	27	24	29
F 41 2_10.8	10.8	—	—	—	—	—	—	—	—	11	12	11	12	11	12	25	27	25	30
F 41 2_14.6	14.6	—	—	—	—	—	—	—	—	7.7	8.2	7.6	8.6	7.6	8.6	22	24	21	26
F 41 2_17.1	17.1	—	—	—	—	—	—	—	—	6.3	6.8	6.2	7.2	6.2	7.2	20	23	20	25
F 41 2_18.9	18.9	—	—	—	—	—	—	—	—	5.8	6.3	5.7	6.7	5.7	6.7	20	23	20	25
F 41 2_24.1	24.1	—	—	—	—	4.9	5.4	4.9	5.4	4.9	5.4	4.8	5.8	4.8	5.8	19	22	19	24
F 41 2_30.1	30.1	—	—	—	—	4.3	4.8	4.3	4.8	4.3	4.8	4.2	5.2	4.2	5.2	18	21	18	23
F 41 2_38.2	38.2	—	—	—	—	3.8	4.2	3.8	4.2	3.7	4.2	3.6	4.6	3.6	4.6	18	20	17	22
F 41 2_47.9	47.9	—	—	—	—	3.5	3.9	3.5	3.9	3.4	3.9	3.3	4.3	3.3	4.3	18	20	17	22
F 41 3_51.5	51.5	—	—	—	—	—	—	—	—	5.7	6.2	5.6	6.6	5.6	6.6	20	22	19	24
F 41 3_60.2	60.2	—	—	—	—	—	—	—	—	4.9	5.4	4.7	5.7	4.7	5.7	19	22	19	24
F 41 3_66.5	66.5	—	—	—	—	—	—	—	—	4.7	5.2	4.5	5.5	4.5	5.5	19	21	18	23
F 41 3_84.9	84.9	—	—	—	—	4.2	4.7	4.2	4.7	4.2	4.7	4.0	5.0	4.0	5.0	18	21	18	23
F 41 3_106.0	106.0	—	—	—	—	3.9	4.4	3.9	4.4	3.8	4.3	3.7	4.7	3.7	4.7	18	21	18	23
F 41 3_134.4	134.4	—	—	—	—	3.5	3.9	3.5	3.9	3.4	3.9	3.3	4.3	3.3	4.3	18	20	17	22
F 41 3_168.7	168.7	—	—	—	—	3.3	3.7	3.3	3.7	3.2	3.7	3.1	4.1	3.1	4.1	17	20	17	22
F 41 3_180.7	180.7	—	—	—	—	3.3	3.7	3.3	3.7	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—
F 41 3_198.9	198.9	—	—	—	—	3.2	3.6	3.2	3.6	3.1	3.6	3.0	4.0	3.0	4.0	—	—	—	—
F 41 3_220.1	220.1	—	—	—	—	3.2	3.6	3.2	3.6	3.1	3.6	3.0	4.0	3.0	4.0	—	—	—	—
F 41 3_240.1	240.1	—	—	—	—	3.1	3.6	3.1	3.6	3.1	3.6	2.9	3.9	2.9	3.9	—	—	—	—
F 41 3_266.9	266.9	—	—	—	—	3.1	3.5	3.1	3.5	3.0	3.5	2.9	3.9	2.9	3.9	—	—	—	—
F 41 3_296.6	296.6	—	—	—	—	3.1	3.5	3.1	3.5	3.0	3.5	2.9	3.9	2.9	3.9	—	—	—	—
F 41 3_344.8	344.8	—	—	—	—	3.0	3.4	3.0	3.4	2.9	3.4	2.8	3.8	2.8	3.8	—	—	—	—
F 41 4_433.7	433.7	0.48	0.74	0.50	0.94	—	—	3.0	3.5	3.0	3.5	2.8	3.8	—	—	—	—	—	—
F 41 4_549.8	549.8	0.46	0.72	0.48	0.92	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_690.1	690.1	0.45	0.71	0.47	0.91	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_739.4	739.4	0.44	0.70	0.46	0.90	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_813.8	813.8	0.44	0.70	0.46	0.90	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_900.5	900.5	0.44	0.70	0.46	0.90	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_982.4	982.4	0.44	0.70	0.46	0.90	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_1092	1092	0.43	0.69	0.45	0.89	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_1213	1213	0.43	0.69	0.45	0.89	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_1411	1411	0.43	0.69	0.45	0.89	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—






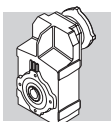
## F 51

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]										
			63	71	80	90	 IEC	100	112	132	160	
F 51 2_7.2	7.2	25	—	—	28	28	30	30	42	101	103	34
F 51 2_9.1	9.1	17	—	—	20	19	22	22	33	92	94	26
F 51 2_11.1	11.1	16	—	—	19	19	22	22	33	92	94	25
F 51 2_14.0	14.0	11	—	—	14	14	17	17	28	87	89	20
F 51 2_18.8	18.8	7.0	—	—	9.8	9.6	12	12	24	83	85	16
F 51 2_23.8	23.8	4.5	—	—	7.3	7.2	9.9	9.9	21	80	82	13
F 51 2_30.0	30.0	3.1	3.8	3.8	5.9	5.8	8.5	8.5	20	79	81	12
F 51 2_37.1	37.1	2.2	3.0	3.0	5.0	4.9	7.6	7.6	19	78	80	11
F 51 3_48.9	48.9	6.2	—	—	8.9	8.8	12	12	23	82	84	15
F 51 3_65.8	65.8	4.2	—	—	6.9	6.8	9.6	9.6	21	80	82	13
F 51 3_83.2	83.2	2.7	—	—	5.5	5.4	8.1	8.1	19	78	80	12
F 51 3_105.1	105.1	2.0	2.7	2.7	4.8	4.6	7.4	7.4	19	78	80	11
F 51 3_129.9	129.9	1.5	2.2	2.2	4.3	4.1	6.9	6.9	18	77	79	10
F 51 3_165.6	165.6	0.95	1.7	1.7	3.7	3.6	6.3	6.3	17	76	78	9.7
F 51 3_202.4	202.4	0.72	1.4	1.4	3.5	3.3	6.1	6.1	17	76	78	9.5
F 51 3_216.9	216.9	0.64	1.4	1.3	3.4	3.3	6.0	6.0	—	—	—	9.4
F 51 3_239.8	239.8	0.60	1.3	1.3	3.4	3.2	6.0	6.0	—	—	—	9.4
F 51 3_262.1	262.1	0.53	1.3	1.3	3.3	3.2	5.9	5.9	—	—	—	9.3
F 51 3_285.9	285.9	0.46	1.2	1.2	3.2	3.1	5.8	5.8	—	—	—	9.2
F 51 3_317.3	317.3	0.39	1.1	1.1	3.2	3.0	5.8	5.8	—	—	—	9.2
F 51 3_352.5	352.5	0.28	1.1	1.1	3.1	3.0	5.7	5.7	—	—	—	9.1
F 51 4_429.1	429.1	0.36	1.1	1.1	3.1	3.0	5.7	5.7	—	—	—	2.4
F 51 4_530.5	530.5	0.33	1.1	1.0	3.1	3.0	5.7	5.7	—	—	—	2.4
F 51 4_676.3	676.3	0.30	1.0	1.0	3.1	2.9	5.7	5.7	—	—	—	2.4
F 51 4_826.4	826.4	0.28	1.0	1.0	3.0	2.9	5.7	5.7	—	—	—	2.3
F 51 4_885.5	885.5	0.28	1.0	1.0	3.0	2.9	5.7	5.7	—	—	—	2.3
F 51 4_979.4	979.4	0.28	1.0	1.0	3.0	2.9	5.7	5.7	—	—	—	2.3
F 51 4_1070	1070	0.27	1.0	1.0	3.0	2.9	5.6	5.6	—	—	—	2.3
F 51 4_1168	1168	0.27	1.0	1.0	3.0	2.9	5.6	5.6	—	—	—	2.3
F 51 4_1296	1296	0.26	1.0	1.0	3.0	2.9	5.6	5.6	—	—	—	2.3
F 51 4_1439	1439	0.26	1.0	1.0	3.0	2.9	5.6	5.6	—	—	—	2.3




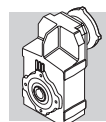
# F 51

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]							
			NEMA 						
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	
F 51 2_7.2	7.2	25	—	—	28	42	101	103	34
F 51 2_9.1	9.1	17	—	—	20	33	92	94	26
F 51 2_11.1	11.1	16	—	—	19	33	92	94	25
F 51 2_14.0	14.0	11	—	—	14	28	87	89	20
F 51 2_18.8	18.8	7.0	—	—	9.8	24	83	85	16
F 51 2_23.8	23.8	4.5	—	—	7.3	21	80	82	13
F 51 2_30.0	30.0	3.1	3.8	3.8	5.9	20	79	81	12
F 51 2_37.1	37.1	2.2	3.0	3.0	5.0	19	78	80	11
F 51 3_48.9	48.9	6.2	—	—	8.9	23	82	84	15
F 51 3_65.8	65.8	4.2	—	—	6.9	21	80	82	13
F 51 3_83.2	83.2	2.7	—	—	5.5	19	78	80	12
F 51 3_105.1	105.1	2.0	2.7	2.7	4.8	19	78	80	11
F 51 3_129.9	129.9	1.5	2.2	2.2	4.3	18	77	79	10
F 51 3_165.6	165.6	0.95	1.7	1.7	3.7	17	76	78	9.7
F 51 3_202.4	202.4	0.72	1.4	1.4	3.5	17	76	78	9.5
F 51 3_216.9	216.9	0.64	1.4	1.4	3.4	—	—	—	9.4
F 51 3_239.8	239.8	0.60	1.3	1.3	3.4	—	—	—	9.4
F 51 3_262.1	262.1	0.53	1.3	1.3	3.3	—	—	—	9.3
F 51 3_285.9	285.9	0.46	1.2	1.2	3.2	—	—	—	9.2
F 51 3_317.3	317.3	0.39	1.1	1.1	3.2	—	—	—	9.2
F 51 3_352.5	352.5	0.28	1.1	1.1	3.1	—	—	—	9.1
F 51 4_429.1	429.1	0.36	1.1	1.1	3.1	—	—	—	2.4
F 51 4_530.5	530.5	0.33	1.1	1.1	3.1	—	—	—	2.4
F 51 4_676.3	676.3	0.30	1.0	1.0	3.1	—	—	—	2.4
F 51 4_826.4	826.4	0.28	1.0	1.0	3.0	—	—	—	2.3
F 51 4_885.5	885.5	0.28	1.0	1.0	3.0	—	—	—	2.3
F 51 4_979.4	979.4	0.28	1.0	1.0	3.0	—	—	—	2.3
F 51 4_1070	1070	0.27	1.0	1.0	3.0	—	—	—	2.3
F 51 4_1168	1168	0.27	1.0	1.0	3.0	—	—	—	2.3
F 51 4_1296	1296	0.26	1.0	1.0	3.0	—	—	—	2.3
F 51 4_1439	1439	0.26	1.0	1.0	3.0	—	—	—	2.3





# F 51

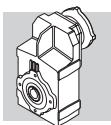
		J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]											
													
	i	80B		95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 51 2_7.2	7.2	—	—	—	—	28	29	28	23	42	44	42	47
F 51 2_9.1	9.1	—	—	—	—	20	21	19	20	34	36	33	38
F 51 2_11.1	11.1	—	—	—	—	19	20	19	20	33	35	33	38
F 51 2_14.0	14.0	—	—	—	—	14	15	14	15	28	30	28	33
F 51 2_18.8	18.8	—	—	—	—	9.8	10	9.6	11	24	26	24	29
F 51 2_23.8	23.8	—	—	—	—	7.3	7.8	7.2	8.2	21	24	21	26
F 51 2_30.0	30.0	5.9	6.4	5.9	6.4	5.9	6.4	5.8	6.8	20	23	20	25
F 51 2_37.1	37.1	5.0	5.5	5.0	5.5	5.0	5.5	4.9	5.9	19	22	19	24
F 51 3_48.9	48.9	—	—	—	—	8.9	9.4	8.8	9.8	23	26	23	28
F 51 3_65.8	65.8	—	—	—	—	6.9	7.4	6.8	7.8	21	24	21	26
F 51 3_83.2	83.2	—	—	—	—	5.5	6.0	5.4	6.4	20	22	19	24
F 51 3_105.1	105.1	4.8	5.3	4.8	5.3	4.8	5.3	4.6	5.6	19	21	19	24
F 51 3_129.9	129.9	4.3	4.8	4.3	4.8	4.3	4.8	4.1	5.1	18	21	18	23
F 51 3_165.6	165.6	3.8	4.2	3.8	4.2	3.7	4.2	3.6	4.6	18	20	17	22
F 51 3_202.4	202.4	3.5	4.0	3.5	4.0	3.5	4.0	3.3	4.3	18	20	17	22
F 51 3_216.9	216.9	3.5	3.9	3.5	3.9	3.4	3.9	3.3	4.3	—	—	—	—
F 51 3_239.8	239.8	3.4	3.9	3.4	3.9	3.4	3.9	3.2	4.2	—	—	—	—
F 51 3_262.1	262.1	3.4	3.8	3.4	3.8	3.3	3.8	3.2	4.2	—	—	—	—
F 51 3_285.9	285.9	3.3	3.7	3.3	3.7	3.2	3.7	3.1	4.1	—	—	—	—
F 51 3_317.3	317.3	3.2	3.6	3.2	3.6	3.2	3.7	3.0	4.0	—	—	—	—
F 51 3_352.5	352.5	3.1	3.5	3.1	3.5	3.1	3.6	3.0	4.0	—	—	—	—
F 51 4_429.1	429.1	—	—	3.2	3.6	3.1	3.6	3.0	4.0	—	—	—	—
F 51 4_530.5	530.5	—	—	3.2	3.6	3.1	3.6	3.0	4.0	—	—	—	—
F 51 4_676.3	676.3	—	—	3.1	3.6	3.1	3.6	2.9	3.9	—	—	—	—
F 51 4_826.4	826.4	—	—	3.1	3.5	3.0	3.5	2.9	3.9	—	—	—	—
F 51 4_885.5	885.5	—	—	3.1	3.5	3.0	3.5	2.9	3.9	—	—	—	—
F 51 4_979.4	979.4	—	—	3.1	3.5	3.0	3.5	2.9	3.9	—	—	—	—
F 51 4_1070	1070	—	—	3.1	3.5	3.0	3.5	2.9	3.9	—	—	—	—
F 51 4_1168	1168	—	—	3.1	3.5	3.0	3.5	2.9	3.9	—	—	—	—
F 51 4_1296	1296	—	—	3.1	3.5	3.0	3.5	2.9	3.9	—	—	—	—
F 51 4_1439	1439	—	—	3.1	3.5	3.0	3.5	2.9	3.9	—	—	—	—




## F 60

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]										
			63	71	80	90	100	112	132	160	180	
F 60 3_9.0	9.0	40	—	—	—	—	—	—	59	118	116	61
F 60 3_9.7	9.7	38	—	—	—	—	—	—	57	116	114	59
F 60 3_11.8	11.8	25	—	—	28	28	29	29	44	103	101	46
F 60 3_12.7	12.7	24	—	—	27	27	28	28	43	102	100	45
F 60 3_14.5	14.5	18	—	—	21	20	22	22	37	96	94	39
F 60 3_15.7	15.7	17	—	—	20	20	21	21	36	95	93	38
F 60 3_19.1	19.1	10	—	—	13	13	14	14	29	89	86	31
F 60 3_20.7	20.7	9.9	—	—	13	13	14	14	29	88	86	31
F 60 3_23.5	23.5	7.3	—	—	10	10	11	11	26	86	83	28
F 60 3_25.4	25.4	7.1	—	—	9.9	9.9	11	11	26	85	83	28
F 60 3_29.6	29.6	15	—	—	—	—	—	—	34	93	91	36
F 60 3_32.1	32.1	15	—	—	—	—	—	—	34	93	91	36
F 60 3_38.8	38.8	11	—	—	14	13	15	15	30	89	87	32
F 60 3_42.1	42.1	11	—	—	13	13	15	15	29	89	87	31
F 60 3_47.8	47.8	8.2	—	—	11	11	12	12	27	86	84	29
F 60 3_51.8	51.8	8.1	—	—	11	11	12	12	27	86	84	29
F 60 3_63.0	63.0	4.9	—	—	7.7	7.6	8.9	8.9	24	83	81	26
F 60 3_68.3	68.3	4.8	—	—	7.7	7.6	8.9	8.9	24	83	81	26
F 60 3_77.6	77.6	3.7	—	—	6.6	6.5	7.8	7.8	23	82	80	25
F 60 3_84.0	84.0	3.7	—	—	6.5	6.5	7.8	7.8	23	82	80	25
F 60 3_98.2	98.2	2.7	4.2	4.2	5.6	5.5	6.8	6.8	22	81	79	24
F 60 3_106.4	106.4	2.7	4.2	4.2	5.5	5.4	6.8	6.8	22	81	79	24
F 60 3_120.5	120.5	1.8	3.2	3.2	4.6	4.6	5.9	5.9	21	80	78	23
F 60 3_130.5	130.5	1.8	3.2	3.2	4.6	4.6	5.8	5.8	21	80	78	23
F 60 3_150.4	150.4	1.3	2.7	2.7	4.1	4.1	5.4	5.4	20	80	77	22
F 60 3_162.9	162.9	1.3	2.7	2.7	4.1	4.1	5.4	5.4	20	80	77	22
F 60 3_185.9	185.9	0.90	2.4	2.4	3.8	3.7	5.0	5.0	20	79	77	22
F 60 3_201.4	201.4	0.90	2.4	2.4	3.8	3.7	5.0	5.0	20	79	77	22
F 60 3_217.6	217.6	0.70	2.2	2.2	3.6	3.5	4.8	4.8	—	—	—	22
F 60 3_235.8	235.8	0.70	2.2	2.2	3.6	3.5	4.8	4.8	—	—	—	22
F 60 3_259.1	259.1	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	22
F 60 3_280.7	280.7	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	22

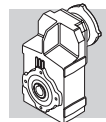
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
## F 60

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]							
			N56C	N140TC	N180TC	N210TC	N250TC	N280TC	
F 60 3_9.0	9.0	40	—	—	—	59	118	116	61
F 60 3_9.7	9.7	38	—	—	—	57	116	114	59
F 60 3_11.8	11.8	25	—	—	28	44	103	101	46
F 60 3_12.7	12.7	24	—	—	27	43	102	100	45
F 60 3_14.5	14.5	18	—	—	21	37	96	94	39
F 60 3_15.7	15.7	17	—	—	20	36	95	93	38
F 60 3_19.1	19.1	10	—	—	13	29	89	86	31
F 60 3_20.7	20.7	9.9	—	—	13	29	88	86	31
F 60 3_23.5	23.5	7.3	—	—	10	26	86	83	28
F 60 3_25.4	25.4	7.1	—	—	9.9	26	85	83	28
F 60 3_29.6	29.6	15	—	—	—	34	93	91	36
F 60 3_32.1	32.1	15	—	—	—	34	93	91	36
F 60 3_38.8	38.8	11	—	—	14	30	89	87	32
F 60 3_42.1	42.1	11	—	—	13	29	89	87	31
F 60 3_47.8	47.8	8.2	—	—	11	27	86	84	29
F 60 3_51.8	51.8	8.1	—	—	11	27	86	84	29
F 60 3_63.0	63.0	4.9	—	—	7.7	24	83	81	26
F 60 3_68.3	68.3	4.8	—	—	7.7	24	83	81	26
F 60 3_77.6	77.6	3.7	—	—	6.6	23	82	80	25
F 60 3_84.0	84.0	3.7	—	—	6.5	23	82	80	25
F 60 3_98.2	98.2	2.7	4.2	4.2	5.6	22	81	79	24
F 60 3_106.4	106.4	2.7	4.2	4.2	5.5	22	81	79	24
F 60 3_120.5	120.5	1.8	3.2	3.2	4.6	21	80	78	23
F 60 3_130.5	130.5	1.8	3.2	3.2	4.6	21	80	78	23
F 60 3_150.4	150.4	1.3	2.7	2.7	4.1	20	80	77	22
F 60 3_162.9	162.9	1.3	2.7	2.7	4.1	20	80	77	22
F 60 3_185.9	185.9	0.90	2.4	2.4	3.8	20	79	77	22
F 60 3_201.4	201.4	0.90	2.4	2.4	3.8	20	79	77	22
F 60 3_217.6	217.6	0.70	2.2	2.2	3.6	—	—	—	22
F 60 3_235.8	235.8	0.70	2.2	2.2	3.6	—	—	—	22
F 60 3_259.1	259.1	0.50	2.0	2.0	3.4	—	—	—	22
F 60 3_280.7	280.7	0.50	2.0	2.0	3.4	—	—	—	22

Para obter os valores do momento de inércia de redutores com 4 estágios, entre em contato com o nosso Departamento de Assistência Técnica.



## F 60




		J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]									
											
i		95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 60 3_9.0	9.0	—	—	—	—	—	—	57	59	59	64
F 60 3_9.7	9.7	—	—	—	—	—	—	55	57	57	62
F 60 3_11.8	11.8	—	—	28	29	28	29	42	44	44	49
F 60 3_12.7	12.7	—	—	27	28	27	28	41	43	43	48
F 60 3_14.5	14.5	—	—	21	22	20	21	35	37	37	42
F 60 3_15.7	15.7	—	—	20	21	20	21	34	36	36	41
F 60 3_19.1	19.1	—	—	13	14	13	14	27	29	29	34
F 60 3_20.7	20.7	—	—	13	14	13	14	27	29	29	34
F 60 3_23.5	23.5	—	—	10	11	10	11	24	27	26	31
F 60 3_25.4	25.4	—	—	9.9	10	9.9	11	24	27	26	31
F 60 3_29.6	29.6	—	—	—	—	—	—	32	34	34	39
F 60 3_32.1	32.1	—	—	—	—	—	—	32	34	34	39
F 60 3_38.8	38.8	—	—	14	15	13	14	28	30	30	35
F 60 3_42.1	42.1	—	—	13	14	13	14	28	30	29	34
F 60 3_47.8	47.8	—	—	11	12	11	12	25	28	27	32
F 60 3_51.8	51.8	—	—	11	12	11	12	25	28	27	32
F 60 3_63.0	63.0	—	—	7.7	8.2	7.6	8.6	22	24	24	29
F 60 3_68.3	68.3	—	—	7.7	8.2	7.6	8.6	22	24	24	29
F 60 3_77.6	77.6	—	—	6.6	7.1	6.5	7.5	21	23	23	28
F 60 3_84.0	84.0	—	—	6.5	7.0	6.5	7.5	21	23	23	28
F 60 3_98.2	98.2	—	—	5.6	6.1	5.5	6.5	20	22	22	27
F 60 3_106.4	106.4	5.5	6.0	5.5	6.0	5.4	6.4	20	22	22	27
F 60 3_120.5	120.5	2.2	2.7	4.6	5.1	4.6	5.6	19	21	21	26
F 60 3_130.5	130.5	2.2	2.7	4.6	5.1	4.6	5.6	19	21	21	26
F 60 3_150.4	150.4	4.1	4.6	4.1	4.6	4.1	5.1	18	21	20	25
F 60 3_162.9	162.9	4.1	4.6	4.1	4.6	4.1	5.1	18	21	20	25
F 60 3_185.9	185.9	3.7	4.2	3.8	4.3	3.7	4.7	18	20	20	25
F 60 3_201.4	201.4	3.7	4.2	3.8	4.3	3.7	4.7	18	20	20	25
F 60 3_217.6	217.6	3.5	4.0	3.6	4.1	3.5	4.5	—	—	—	—
F 60 3_235.8	235.8	3.5	4.0	3.6	4.1	3.5	4.5	—	—	—	—
F 60 3_259.1	259.1	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—
F 60 3_280.7	280.7	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—

Para obter os valores do momento de inércia de redutores com 4 estágios, entre em contato com o nosso Departamento de Assistência Técnica.








## F 70

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]									
			 IEC								
			80	90	100	112	132	160	180	200	
F 70 3_10.0	10.0	—	—	—	—	—	—	169	167	176	133
F 70 3_10.9	10.9	—	—	—	—	—	—	166	163	173	129
F 70 3_12.8	12.8	—	—	—	—	—	—	139	137	146	102
F 70 3_13.9	13.9	—	—	—	—	—	—	137	135	144	100
F 70 3_16.3	16.3	39	—	—	—	—	58	117	115	124	80
F 70 3_17.7	17.7	37	—	—	—	—	56	116	113	123	79
F 70 3_20.9	20.9	26	—	—	—	—	45	105	102	—	68
F 70 3_22.6	22.6	26	—	—	—	—	44	104	102	—	67
F 70 3_24.6	24.6	21	—	—	—	—	40	99	97	—	62
F 70 3_27.7	27.7	—	—	—	—	—	—	128	126	135	73
F 70 3_30.0	30.0	—	—	—	—	—	—	127	125	134	73
F 70 3_35.4	35.4	—	—	—	—	—	—	114	112	121	77
F 70 3_38.4	38.4	—	—	—	—	—	—	114	111	121	77
F 70 3_45.2	45.2	23	—	—	—	—	42	101	99	108	65
F 70 3_49.0	49.0	23	—	—	—	—	42	101	99	108	65
F 70 3_57.7	57.7	17	—	—	—	—	36	95	93	—	58
F 70 3_62.5	62.5	17	—	—	—	—	36	95	93	—	58
F 70 3_67.9	67.9	14	—	—	—	—	33	92	90	—	55
F 70 3_73.6	73.6	14	—	—	—	—	33	92	90	—	55
F 70 3_85.4	85.4	9.0	11	11	13	13	28	87	85	—	50
F 70 3_92.5	92.5	9.0	11	11	13	13	28	87	85	—	50
F 70 3_101.2	101.2	6.3	8.9	8.8	10	10	25	85	82	—	47
F 70 3_109.6	109.6	6.3	8.9	8.8	10	10	25	85	82	—	47
F 70 3_122.7	122.7	5.1	7.9	7.8	9.1	9.1	24	83	81	—	46
F 70 3_133.0	133.0	5.1	7.9	7.8	9.1	9.1	24	83	81	—	46
F 70 3_153.8	153.8	3.2	6.0	6.0	7.3	7.3	22	81	79	—	44
F 70 3_166.7	166.7	3.2	6.0	6.0	7.3	7.3	22	81	79	—	44
F 70 3_180.9	180.9	2.3	5.1	5.1	6.3	6.3	21	81	78	—	43
F 70 3_196.0	196.0	2.3	5.1	5.0	6.3	6.3	21	81	78	—	43

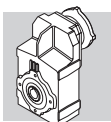
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


## F 70

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]				
			N210TC	N250TC 	N280TC	
<b>F 70 3_10.0</b>	10.0	—	—	169	167	133
<b>F 70 3_10.9</b>	10.9	—	—	166	163	129
<b>F 70 3_12.8</b>	12.8	—	—	139	137	102
<b>F 70 3_13.9</b>	13.9	—	—	137	135	100
<b>F 70 3_16.3</b>	16.3	39	58	117	115	80
<b>F 70 3_17.7</b>	17.7	37	56	116	113	79
<b>F 70 3_20.9</b>	20.9	26	45	105	102	68
<b>F 70 3_22.6</b>	22.6	26	44	104	102	67
<b>F 70 3_24.6</b>	24.6	21	40	99	97	62
<b>F 70 3_27.7</b>	27.7	—	—	128	126	73
<b>F 70 3_30.0</b>	30.0	—	—	127	125	73
<b>F 70 3_35.4</b>	35.4	—	—	114	112	77
<b>F 70 3_38.4</b>	38.4	—	—	114	111	77
<b>F 70 3_45.2</b>	45.2	23	42	101	99	65
<b>F 70 3_49.0</b>	49.0	23	42	101	99	65
<b>F 70 3_57.7</b>	57.7	17	36	95	93	58
<b>F 70 3_62.5</b>	62.5	17	36	95	93	58
<b>F 70 3_67.9</b>	67.9	14	33	92	90	55
<b>F 70 3_73.6</b>	73.6	14	33	92	90	55
<b>F 70 3_85.4</b>	85.4	9.0	28	87	85	50
<b>F 70 3_92.5</b>	92.5	9.0	28	87	85	50
<b>F 70 3_101.2</b>	101.2	6.3	25	85	82	47
<b>F 70 3_109.6</b>	109.6	6.3	25	85	82	47
<b>F 70 3_122.7</b>	122.7	5.1	24	83	81	46
<b>F 70 3_133.0</b>	133.0	5.1	24	83	81	46
<b>F 70 3_153.8</b>	153.8	3.2	22	81	79	44
<b>F 70 3_166.7</b>	166.7	3.2	22	81	79	44
<b>F 70 3_180.9</b>	180.9	2.3	21	81	78	43
<b>F 70 3_196.0</b>	196.0	2.3	21	81	78	43

Para obter os valores do momento de inércia de redutores com 4 estágios, entre em contato com o nosso Departamento de Assistência Técnica.



## F 80

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]										
			 IEC									
		80	90	100	112	132	160	180	200	225		
F 80 3_10.3	10.3	—	—	—	—	—	—	286	300	578	252	
F 80 3_11.2	11.2	—	—	—	—	—	—	277	291	569	244	
F 80 3_12.9	12.9	—	—	—	—	—	—	217	218	231	509	
F 80 3_14.0	14.0	—	—	—	—	—	—	212	212	226	504	
F 80 3_16.2	16.2	—	—	—	—	—	—	173	171	180	464	
F 80 3_17.6	17.6	—	—	—	—	—	—	170	167	177	461	
F 80 3_20.3	20.3	60	—	—	—	—	79	139	136	146	431	
F 80 3_22.0	22.0	58	—	—	—	—	77	136	134	143	429	
F 80 3_25.2	25.2	43	—	—	—	—	62	121	119	150	413	
F 80 3_28.8	28.8	—	—	—	—	—	—	189	203	480	155	
F 80 3_31.3	31.3	—	—	—	—	—	—	188	201	479	154	
F 80 3_36.0	36.0	—	—	—	—	—	—	155	155	169	447	
F 80 3_39.0	39.0	—	—	—	—	—	—	154	154	168	446	
F 80 3_45.3	45.3	—	—	—	—	—	—	133	132	141	425	
F 80 3_49.1	49.1	—	—	—	—	—	—	133	131	140	425	
F 80 3_56.7	56.7	35	—	—	—	—	54	113	111	120	406	
F 80 3_61.5	61.5	35	—	—	—	—	54	113	111	120	406	
F 80 3_70.4	70.4	27	—	—	—	—	46	105	103	133	397	
F 80 3_76.3	76.3	27	—	—	—	—	45	105	103	133	396	
F 80 3_85.2	85.2	20	—	—	—	—	39	99	96	126	389	
F 80 3_92.3	92.3	20	—	—	—	—	39	99	96	126	389	
F 80 3_105.0	105.0	14	16	16	17	17	32	92	90	119	383	
F 80 3_113.8	113.8	14	16	16	17	17	32	92	90	119	382	
F 80 3_122.5	122.5	13	15	15	17	17	32	91	89	118	381	
F 80 3_132.7	132.7	13	15	15	16	16	31	91	89	118	381	
F 80 3_147.9	147.9	8.5	11	11	13	13	27	87	85	114	377	
F 80 3_160.2	160.2	8.5	11	11	13	13	27	87	84	—	—	
F 80 3_184.6	184.6	5.1	7.9	7.8	9.1	9.1	24	83	81	—	—	
F 80 3_200.0	200.0	5.0	7.9	7.8	9.1	9.1	24	83	81	—	—	

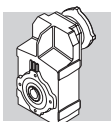
Para obter os valores do momento de inércia de redutores com 4 estágios, entre em contato com o nosso Departamento de Assistência Técnica.






## F 80

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]					
			N210TC	NEMA N250TC	N280TC	N320TC	
F 80 3_10.3	10.3	—	—	—	286	578	252
F 80 3_11.2	11.2	—	—	—	277	569	244
F 80 3_12.9	12.9	—	—	217	218	509	184
F 80 3_14.0	14.0	—	—	212	212	504	178
F 80 3_16.2	16.2	—	—	173	171	464	136
F 80 3_17.6	17.6	—	—	170	167	461	133
F 80 3_20.3	20.3	60	79	139	136	431	102
F 80 3_22.0	22.0	58	77	136	134	429	100
F 80 3_25.2	25.2	43	62	121	119	413	84
F 80 3_28.8	28.8	—	—	—	189	480	155
F 80 3_31.3	31.3	—	—	—	188	479	154
F 80 3_36.0	36.0	—	—	155	155	447	121
F 80 3_39.0	39.0	—	—	154	154	446	121
F 80 3_45.3	45.3	—	—	133	132	425	97
F 80 3_49.1	49.1	—	—	133	131	425	97
F 80 3_56.7	56.7	35	54	113	111	406	77
F 80 3_61.5	61.5	35	54	113	111	406	76
F 80 3_70.4	70.4	27	46	105	103	397	68
F 80 3_76.3	76.3	27	45	105	103	396	68
F 80 3_85.2	85.2	20	39	99	96	389	62
F 80 3_92.3	92.3	20	39	99	96	389	61
F 80 3_105.0	105.0	14	32	92	90	383	55
F 80 3_113.8	113.8	14	32	92	90	382	55
F 80 3_122.5	122.5	13	32	91	89	381	54
F 80 3_132.7	132.7	13	31	91	89	381	54
F 80 3_147.9	147.9	8.5	27	87	85	377	50
F 80 3_160.2	160.2	8.5	27	87	84	—	50
F 80 3_184.6	184.6	5.1	24	83	81	—	46
F 80 3_200.0	200.0	5.0	24	83	81	—	46

Para obter os valores do momento de inércia de redutores com 4 estágios, entre em contato com o nosso Departamento de Assistência Técnica.






## F 90

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]											
			80	90	100	112	 IEC	160	180	200	225	250	
F 90 3_10.3	10.3	—	—	—	—	—	—	—	549	559	843	870	850
F 90 3_11.1	11.1	—	—	—	—	—	—	—	529	539	823	850	830
F 90 3_13.4	13.4	—	—	—	—	—	—	—	373	383	667	694	674
F 90 3_14.5	14.5	—	—	—	—	—	—	—	361	371	655	682	662
F 90 3_16.5	16.5	—	—	—	—	—	—	—	286	296	580	607	587
F 90 3_17.9	17.9	—	—	—	—	—	—	—	278	288	572	599	579
F 90 3_20.6	20.6	—	—	—	—	—	—	224	222	232	516	542	513
F 90 3_22.3	22.3	—	—	—	—	—	—	220	217	227	511	537	508
F 90 3_25.4	25.4	103	—	—	—	—	122	181	179	188	474	500	471
F 90 3_28.6	28.6	—	—	—	—	—	—	—	291	301	585	613	593
F 90 3_31.0	31.0	—	—	—	—	—	—	—	289	299	583	610	590
F 90 3_37.4	37.4	—	—	—	—	—	—	—	222	232	516	543	523
F 90 3_40.5	40.5	—	—	—	—	—	—	—	220	230	514	541	521
F 90 3_46.1	46.1	—	—	—	—	—	—	—	186	196	480	507	487
F 90 3_49.9	49.9	—	—	—	—	—	—	—	185	195	479	506	486
F 90 3_57.3	57.3	—	—	—	—	—	—	161	158	168	452	479	450
F 90 3_62.1	62.1	—	—	—	—	—	—	160	158	167	451	478	449
F 90 3_70.8	70.8	61	—	—	—	—	80	139	137	146	432	458	429
F 90 3_76.7	76.7	60	—	—	—	—	79	139	136	146	431	458	429
F 90 3_88.4	88.4	44	—	—	—	—	63	123	120	151	414	441	412
F 90 3_95.8	95.8	44	—	—	—	—	63	122	120	151	414	441	412
F 90 3_103.3	103.3	41	—	—	—	—	59	119	117	146	410	436	408
F 90 3_111.9	111.9	40	—	—	—	—	59	119	116	146	409	436	407
F 90 3_126.8	126.8	26	29	29	30	30	45	105	102	132	395	422	393
F 90 3_137.3	137.3	26	29	29	30	30	45	104	102	132	395	422	393
F 90 3_150.3	150.3	21	24	24	25	25	40	100	97	127	390	417	388
F 90 3_162.8	162.8	21	24	24	25	25	40	100	97	127	390	417	388
F 90 3_179.2	179.2	14	16	16	18	18	33	92	90	—	—	—	381
F 90 3_194.2	194.2	14	16	16	17	17	33	92	90	—	—	—	381

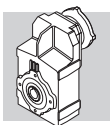
Para obter os valores do momento de inércia de redutores com 4 estágios, entre em contato com o nosso Departamento de Assistência Técnica.



## F 90

	i	J (•10 <sup>-4</sup> ) [kgm <sup>2</sup> ]					
			NEMA 				
			N210TC	N250TC	N280TC	N320TC	
F 90 3_10.3	10.3	—	—	—	549	843	850
F 90 3_11.1	11.1	—	—	—	529	823	830
F 90 3_13.4	13.4	—	—	—	373	667	674
F 90 3_14.5	14.5	—	—	—	361	655	662
F 90 3_16.5	16.5	—	—	—	286	580	587
F 90 3_17.9	17.9	—	—	—	278	572	579
F 90 3_20.6	20.6	—	—	224	222	516	513
F 90 3_22.3	22.3	—	—	220	217	511	508
F 90 3_25.4	25.4	103	122	181	179	474	471
F 90 3_28.6	28.6	—	—	—	291	585	593
F 90 3_31.0	31.0	—	—	—	289	583	590
F 90 3_37.4	37.4	—	—	—	222	516	523
F 90 3_40.5	40.5	—	—	—	220	514	521
F 90 3_46.1	46.1	—	—	—	186	480	487
F 90 3_49.9	49.9	—	—	—	185	479	486
F 90 3_57.3	57.3	—	—	161	158	452	450
F 90 3_62.1	62.1	—	—	160	158	451	449
F 90 3_70.8	70.8	61	80	139	137	432	429
F 90 3_76.7	76.7	60	79	139	136	431	429
F 90 3_88.4	88.4	44	63	123	120	414	412
F 90 3_95.8	95.8	44	63	122	120	414	412
F 90 3_103.3	103.3	41	59	119	117	410	408
F 90 3_111.9	111.9	40	59	119	116	409	407
F 90 3_126.8	126.8	26	45	105	102	395	393
F 90 3_137.3	137.3	26	45	104	102	395	393
F 90 3_150.3	150.3	21	40	100	97	390	388
F 90 3_162.8	162.8	21	40	100	97	390	388
F 90 3_179.2	179.2	14	33	92	90	—	381
F 90 3_194.2	194.2	14	33	92	90	—	381

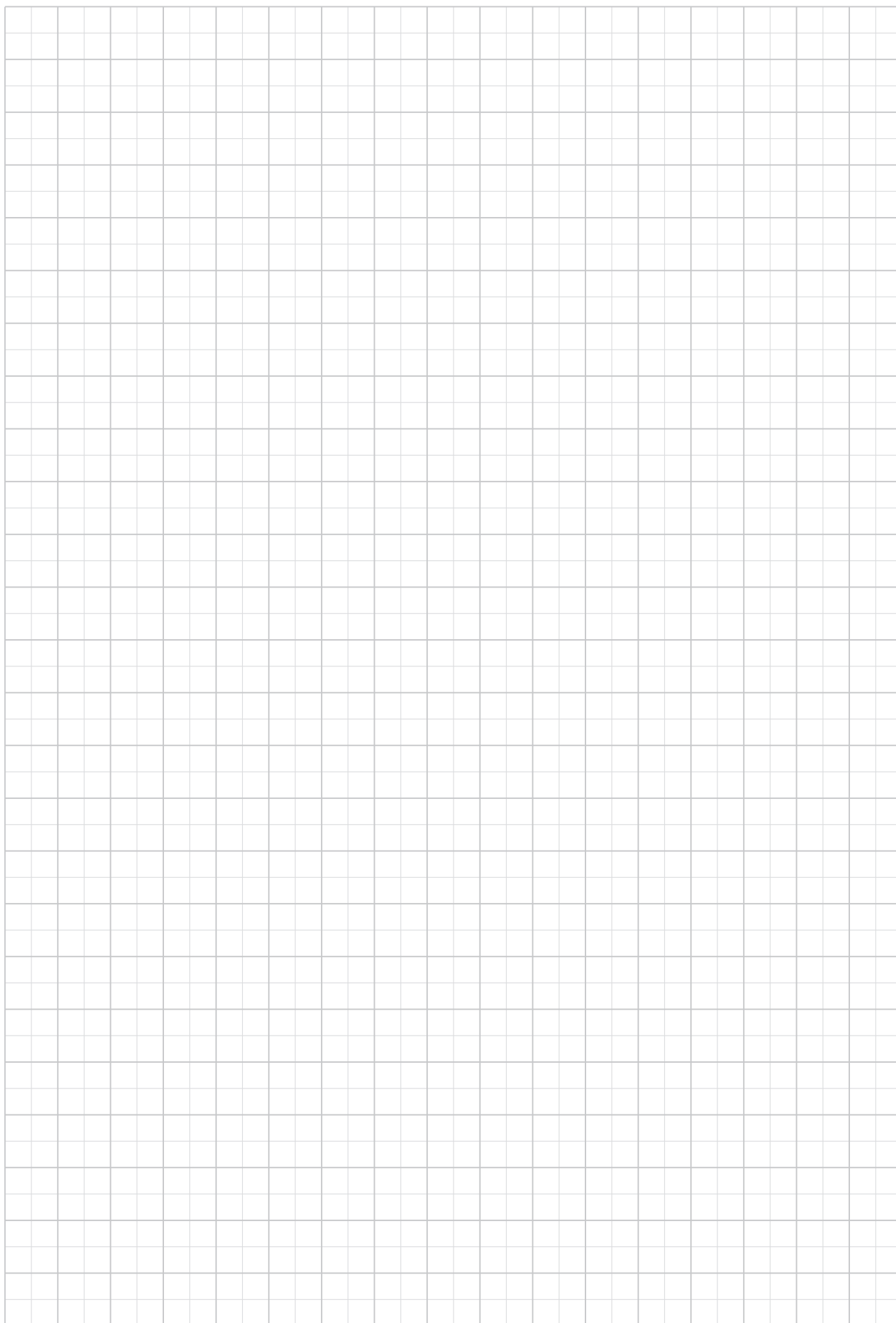
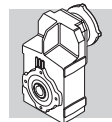
Para obter os valores do momento de inércia de redutores com 4 estágios, entre em contato com o nosso Departamento de Assistência Técnica.



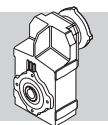
## 58 RELAÇÕES EXATAS

iN	F 10	F 20	F 25	F 31	F 41	F 51	F 60	F 70	F 80	F 90
6.3		6.41210								
7.1	7.40443		6.86957	6.94907	6.72727	7.19408				
8.0		7.83478	8.39375	8.22917						
9.0	8.58204	8.73227	9.35526	9.01630	9.13580	9.05114	8.96000			
10.0	9.76974	10.03069	10.62451	10.74747			9.70667	10.01538	10.33846	10.26577
11.2	11.53759	11.23370			10.77273	11.11005	11.75320	10.85000	11.20000	11.12125
12.5	13.02632		12.98182	12.72727		13.97796	12.73263	12.81731	12.90240	13.41346
14.0	14.64777	14.79842	14.46890	13.94466	14.62963		14.47385	13.88542	13.97760	14.53125
16.0	16.97738		16.62032	16.80000	17.11667		15.68000	16.34455	16.24615	16.52538
18.0		18.08182	18.61364	18.48804	18.89130	18.82155	19.06872	17.70660	17.60000	17.90250
20.0	19.32692	20.15311	21.81818	21.11230			20.65778	20.86538	20.33231	20.56731
22.4	22.82418	23.14973	23.75758	23.38636		23.79447	23.46381	22.60417	22.02667	22.28125
25.0	25.76923	25.92614	27.20455	27.27273	24.11579		25.41913	24.55695	25.22585	25.38622
28.0	29.63462	30.38961	30.03636	30.12121	30.11875	30.03828	29.61538	27.69231	28.84615	28.61169
31.5	32.98462	33.09091	32.18182	34.36364			32.08333	30.00000	31.25000	30.99600
35.5	35.34066	37.89205	36.41958	37.67273	38.18333	37.13636	38.84771	35.43956	36.00000	37.38462
40.0	39.64497	41.83636	40.72727	40.36364			42.08502	38.39286	39.00000	40.50000
45.0	44.66667	44.82468	45.56607	44.64336	47.92667		47.84024	45.19231	45.32967	46.05785
50.0	48.72727	50.72727	50.78571	47.54630	51.49270	48.89965	51.82692	48.95833	49.10714	49.89600
56.0	56.69231	56.72727	58.33718	52.09420	60.24646		63.02761	57.69231	56.73077	57.32308
63.0	62.99145	61.88430	65.33371	62.76111	66.49275	65.84416	68.27991	62.50000	61.45833	62.10000
71.0	71.12308	69.13636	76.58163	69.06725			77.55467	73.55769	70.38462	70.75385
80.0	81.31624	76.81818	83.38889	78.87092	84.88166	83.24111	84.01756	85.38462	76.25000	76.65000
90.0	91.48077	90.40909	95.48772	87.36632			98.19838	92.50000	92.30769	88.39385
100.0	106.02198	101.63636	105.42738	101.88492	106.01061	105.08407	106.38158	101.18343	105.00000	103.33491
112.2		114.34091	112.95791	112.52623			120.45488	109.61538	113.75000	111.94615
125.5	127.12821	132.19481	127.83242	128.37500	134.39596	129.91558	130.49279	122.72727	122.48521	126.77538
140.0		156.30469	142.95238	140.73704			150.35503	132.95455	132.69231	150.30533
160.0		172.57500	155.94805	166.77778	168.69010	165.62338	162.88462	166.66667	160.22727	162.83077
180.0		184.90179	174.22321	185.43056	180.73939	202.39481	185.89349	180.94406	184.61538	179.21958
200.0		209.25000	193.58135	202.28788	198.92028	216.85158	201.38462	196.02273	200.00000	194.15455
225.0		234.00000	227.83036	228.22222	220.13131	239.84416	217.64679	216.52422	218.49174	213.59178
250.0		255.27273	256.12302	253.58025	240.14325	262.11039	259.08284	234.56790	273.89277	231.39109
280.0		285.18750	288.13839	293.83611	266.93818	285.93861	280.67308	280.93645	296.71717	268.72770
315.0		316.87500	333.13010	332.82407	296.59798	317.26753	315.38899	304.34783	353.67893	291.12168
355.0		372.93750		374.42708	344.79515	352.51948	341.67140	372.46964	383.15217	361.84615
400.0		419.25000	393.88686	418.86023		429.09330	399.34008	403.50877	451.49061	392.00000
450.0		471.65625	434.88795	462.60785	433.67975		432.61842	471.15385	489.11483	457.45099
500.0			465.95137	527.76389			489.84985	510.41667	563.87675	495.57191
560.0		545.30357	527.30872	578.58560	549.80165	530.48864	530.67067	606.83761	610.86648	577.48888
630.0			589.67857	619.91314	690.09587	676.29545	611.44379	657.40741	714.86014	625.61296
710.0			643.28571	685.64198	739.38843	826.44545	755.96686	758.97436	774.43182	713.95030
800.0			718.67076	762.32562	813.76478	885.47727	818.96410	822.22222	897.27273	773.44615
900.0			798.52307	831.62795	900.53719	979.36364	885.09695	899.40828	972.04545	910.18225
1000.0			939.80022	938.24691	982.40421	1070.28409	958.85503	974.35897	1058.06885	986.03077
1125.0			1056.50744	1042.49657	1092.01983	1167.58264	1053.60355	1090.90909	1146.24126	1112.25941
1250.0			1188.57087	1207.99290	1213.35537	1295.50909	1141.40385	1181.81818	1277.33630	1204.94769
1400.0			1374.16167	1368.27675	1410.52562	1439.45455		1367.52137	1383.78099	1427.90059
1600.0				1539.31134				1584.61538	1577.62238	1571.37386
1800.0								1716.66667	1709.09091	1702.32168
2000.0								2019.23077	1833.98601	1937.26864
2250.0								2187.50000	1986.81818	2098.70769



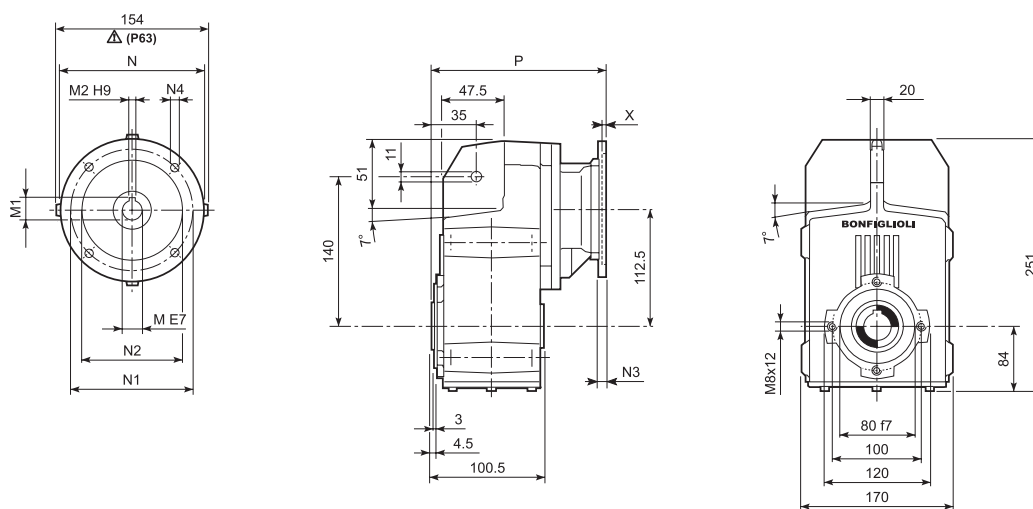






## 59 DIMENSÕES

### F 10...P(IEC)



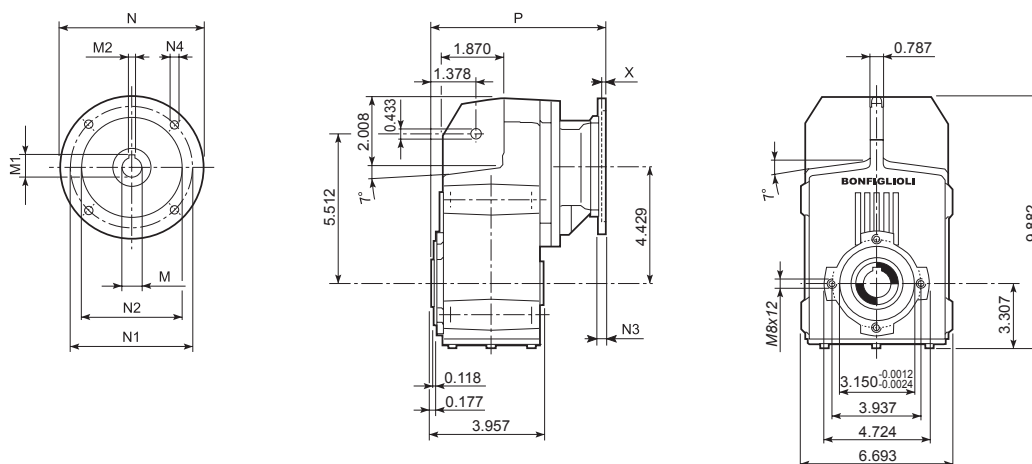
Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg		
		F 10 2	P63	11	12.8	4	140	115	95	—	M8x19	4	185.5	8
		F 10 2	P71	14	16.3	5	160	130	110	—	M8x16	4.5	185.5	8
		F 10 2	P80	19	21.8	6	200	165	130	—	M10x12	4	205	9
		F 10 2	P90	24	27.3	8	200	165	130	—	M10x12	4	205	9
		F 10 2	P100	28	31.3	8	250	215	180	—	M12x16	4.5	215	13
		F 10 2	P112	28	31.3	8	250	215	180	—	M12x16	4.5	215	13

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA



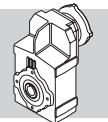
## F 10...N(NEMA Input)



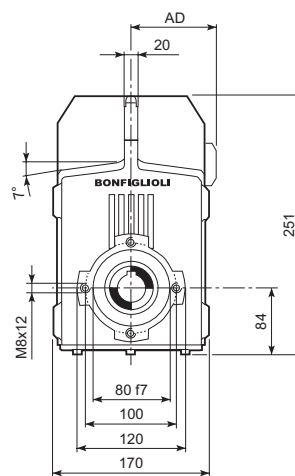
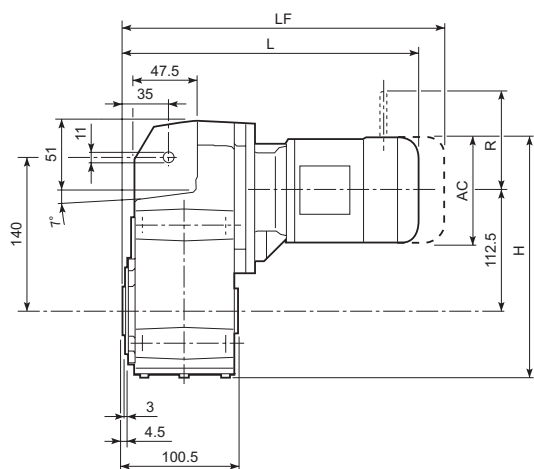
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
		0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	8.091	18
<b>F 10 2</b>	<b>N56C</b>	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	8.091	20
<b>F 10 2</b>	<b>N140TC</b>	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0</sup> / <sub>+0.0014</sub>	8.996	7.250	8.500	0.630	0.551	0.217	8.917	29
<b>F 10 2</b>	<b>N180TC</b>											

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC



## F 10...M/ME

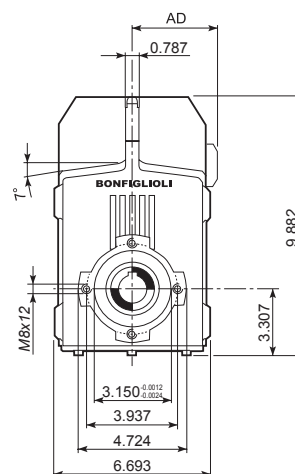
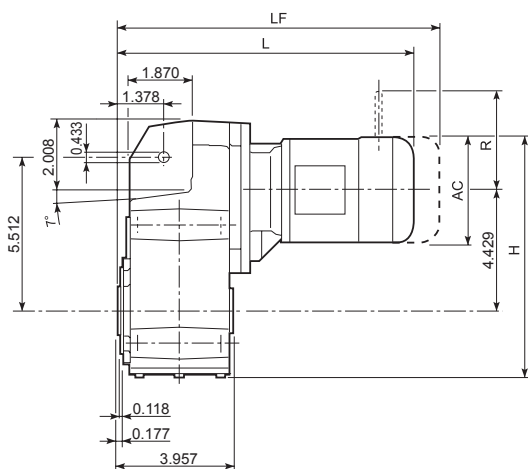


Dimensões em mm






								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD		LF		R	AD	R	AD
F 10 2	S05	M05	121	220.5	311.5	95	12	377.5	13	96	122	116	95
F 10 2	S1	M1	138	265.5	340.5	108	14	401.5	17	103	135	124	108
F 10 2	S2	ME2S	156	274.5	369.5	119	18	—	—	—	—	—	—
F 10 2	S3	ME3S	195	294	412.5	142	22	—	—	—	—	—	—
F 10 2	S3	ME3L	195	294	444.5	142	24	—	—	—	—	—	—

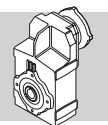


## F 10...M/ME

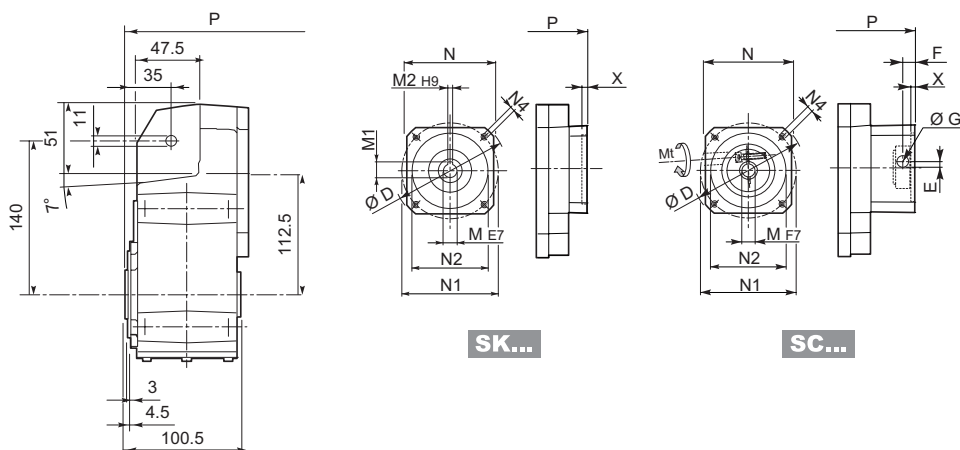


Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

			AC	H	L	AD		M...FD M...FA		M...FD		M...FA	
								LF		R	AD	R	AD
													
F 10 2	S05	M05	4.764	8.681	12.264	3.740	26	14.862	29	3.780	4.803	4.567	3.740
F 10 2	S1	M1	5.433	10.453	13.406	4.252	31	15.807	37	4.055	5.315	4.882	4.252
F 10 2	S2	ME2S	6.142	10.807	14.547	4.685	40	—	—	—	—	—	—
F 10 2	S3	ME3S	7.677	11.575	16.240	5.591	49	—	—	—	—	—	—
F 10 2	S3	ME3L	7.677	11.575	17.500	5.591	53	—	—	—	—	—	—



## F 10...SK / SC



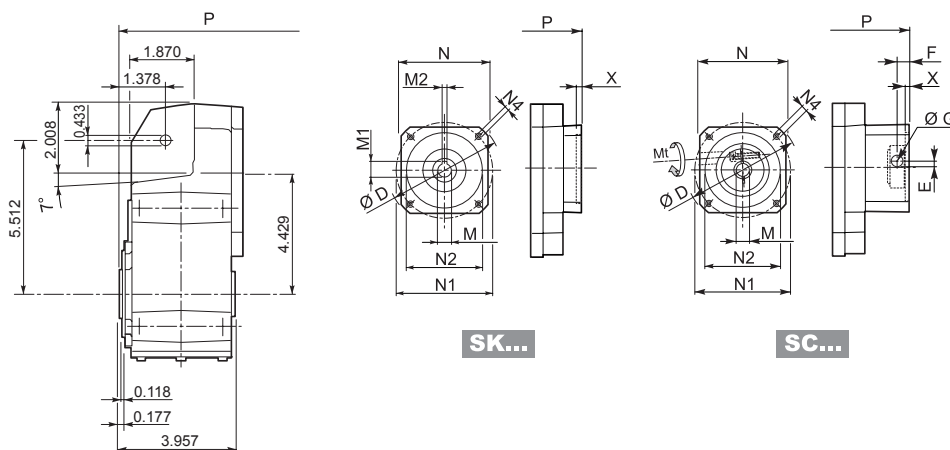
Dimensões em mm

		D	M	M1	M2	N	N1	N2	N4	X	P	
F 10 2	SK 60A	102	11	12.8	4	82	75	60	M5x10	3.5	157	8
F 10 2	SK 60B	102	14	16.3	5	82	75	60	M5x10	4	164	8
F 10 2	SK 80A	115	14	16.3	5	90	100	80	M6x12	4	164	8
F 10 2	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	205	9
F 10 2	SK 95A	130	14	16.3	5	102	115	95	M8x12	4	205	9
F 10 2	SK 95B	130	19	21.8	6	102	115	95	M8x12	4	205	9
F 10 2	SK 95C	130	24	27.3	8	102	115	95	M8x12	4	205	9
F 10 2	SK 110A	150	19	21.8	6	120	130	110	M8x12	5	205	9
F 10 2	SK 110B	150	24	27.3	8	120	130	110	M8x12	5	205	9

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	
F 10 2	SC 60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	184	8
F 10 2	SC 60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	184	9
F 10 2	SC 80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	184	9
F 10 2	SC 80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	228.5	10
F 10 2	SC 95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	228.5	10
F 10 2	SC 95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	228.5	10
F 10 2	SC 95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	228.5	10
F 10 2	SC 110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	228.5	11
F 10 2	SC 110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	228.5	11



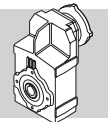
## F 10...SK / SC



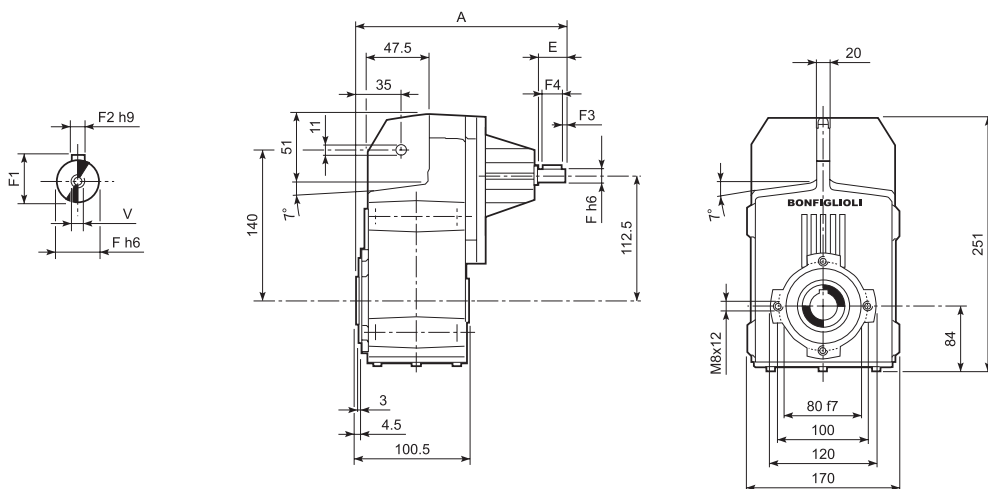
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		D	M	M1	M2	N	N1	N2	N4	X	P	
F 10 2	SK 60A	4.016	0.433 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.504	0.157 <sup>+0.0012</sup> / <sub>+0</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.138	6.181	18
F 10 2	SK 60B	4.016	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.157	6.457	18
F 10 2	SK 80A	4.528	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	3.543	3.937	3.150	<i>M6x12</i>	0.157	6.457	18
F 10 2	SK 80C	4.724	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	8.071	20
F 10 2	SK 95A	5.118	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	8.071	20
F 10 2	SK 95B	5.118	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	8.071	20
F 10 2	SK 95C	5.118	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	8.071	20
F 10 2	SK 110A	5.906	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	4.724	5.118	4.331	<i>M8x12</i>	0.197	8.071	20
F 10 2	SK 110B	5.906	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	4.724	5.118	4.331	<i>M8x12</i>	0.197	8.071	20




			Mt [lb • in]	D	E	F	G	M	N	N1	N2	N4	X	P	
F 10 2	SC 60A	<i>M6</i>	133	4.016	0.276	0.492	0.492	0.433 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.157	7.244	18
F 10 2	SC 60B	<i>M6</i>	133	4.016	0.276	0.492	0.492	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.157	7.244	20
F 10 2	SC 80A	<i>M6</i>	133	4.528	0.236	0.492	0.492	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.543	3.937	3.150	<i>M6x12</i>	0.157	7.244	20
F 10 2	SC 80C	<i>M6</i>	133	4.724	0.610	0.571	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	8.996	22
F 10 2	SC 95A	<i>M6</i>	133	5.118	0.650	0.591	0.699	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	8.996	22
F 10 2	SC 95B	<i>M6</i>	133	5.118	0.650	0.591	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	8.996	22
F 10 2	SC 95C	<i>M6</i>	133	5.118	0.650	0.591	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	8.996	22
F 10 2	SC 110A	<i>M6</i>	133	5.906	0.650	0.630	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	<i>M8x16</i>	0.197	8.996	24
F 10 2	SC 110B	<i>M6</i>	133	5.906	0.650	0.630	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	<i>M8x16</i>	0.197	8.996	24



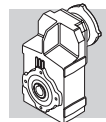
## F 10...HS



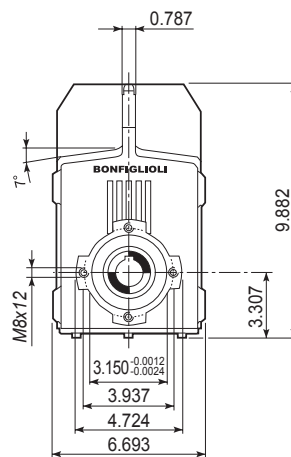
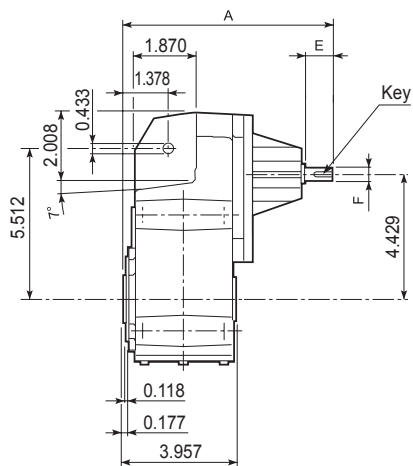
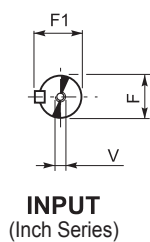
Dimensões em mm

		A	E	F	F1	F2	F3	F4	V	
<b>F 10 2</b>	<b>HS</b>	192	40	16	18	5	2.5	35	M6x16	7.5

Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS



# F 10...NHS

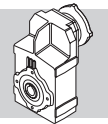


Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		A	E	F	F1	V	Key	
F 10 2	NHS	7.559	1.575	0.625 <sup>+0</sup> / <sub>-0.0004</sub>	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	17

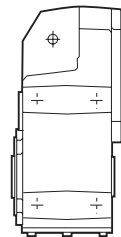
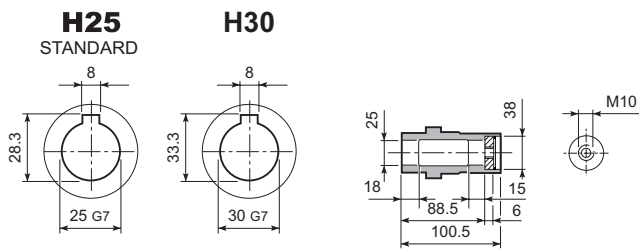
Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS



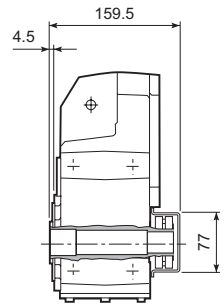
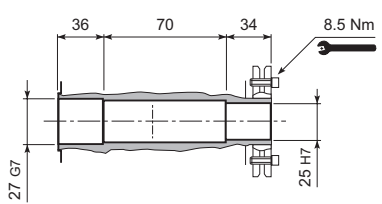


# F 10

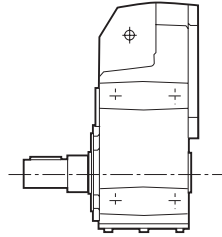
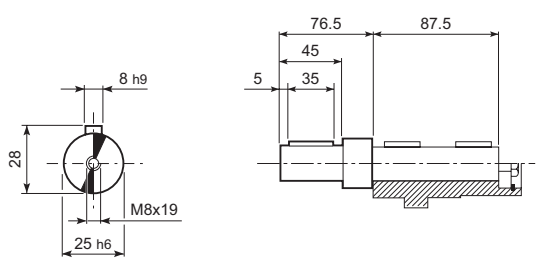
## F 10...H



## F 10...S

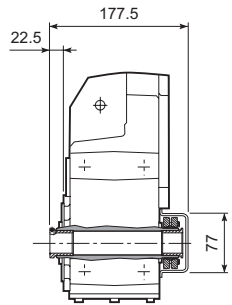
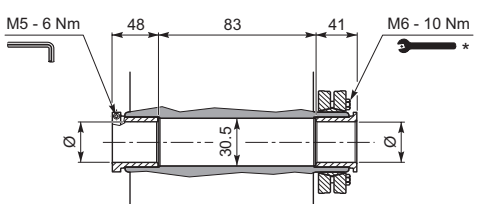


## F 10...R

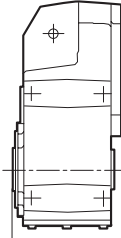
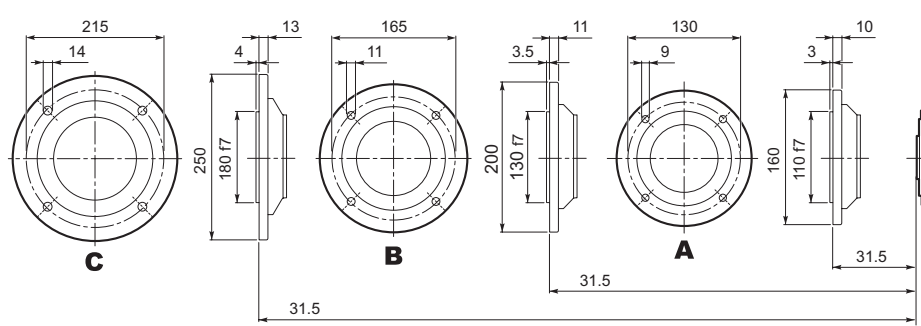


## F 10...QF

	Ø
QF25	25
QF30	30



## F 10...F...

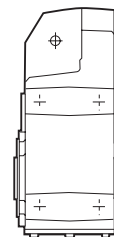
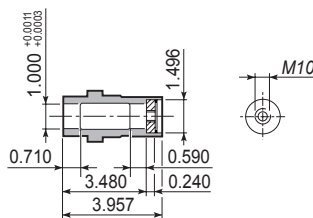
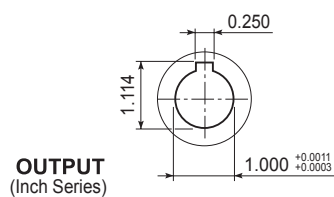


\* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

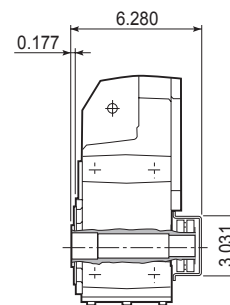
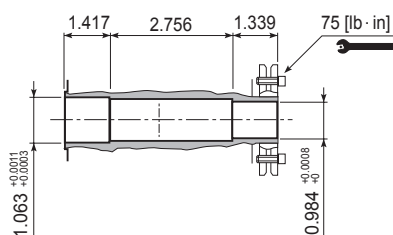


# F 10

## F 10...NH

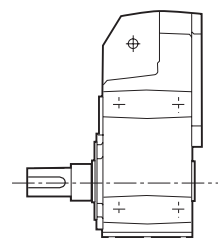
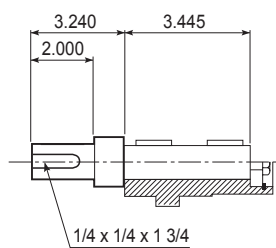
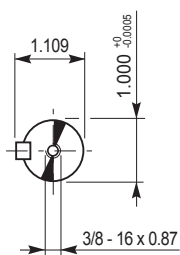


## F 10...S



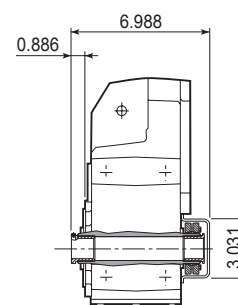
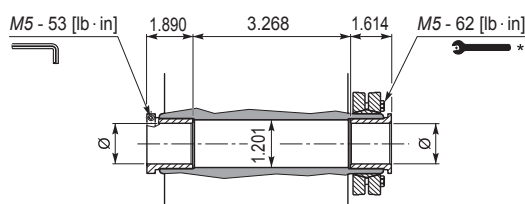
## F 10...NR

**OUTPUT**  
(Inch Series)

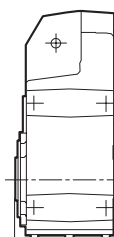
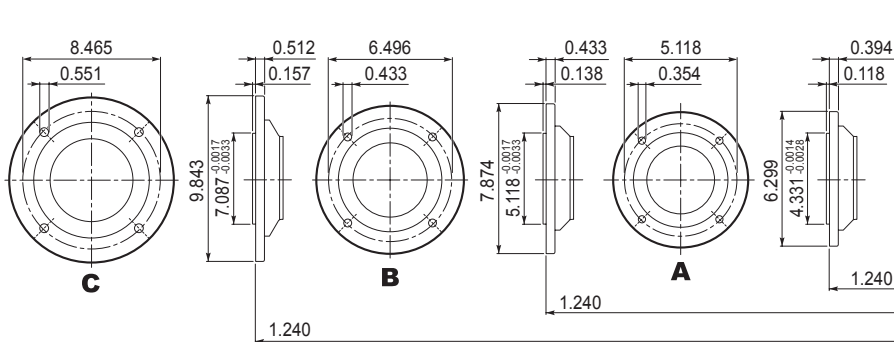


## F 10...NQF

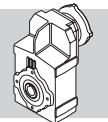
	Ø
NQF1	1.000
NQF1-3/16	1.188



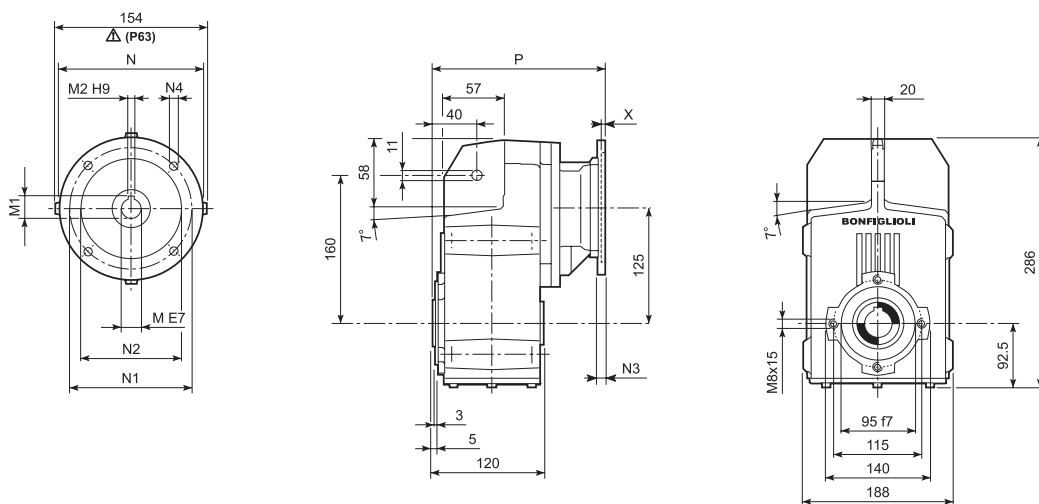
## F 10...F...



\* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.



## F 20...P(IEC)



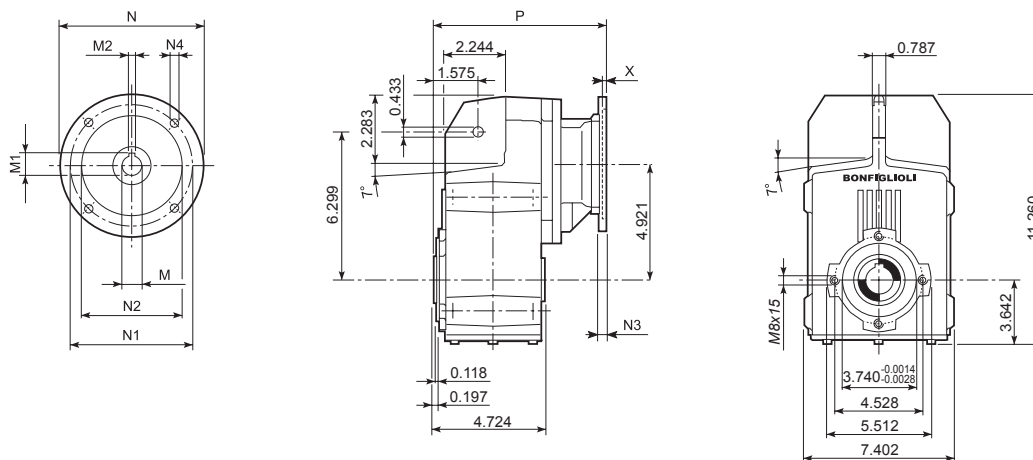
Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	
F 20 2	P63	11	12.8	4	140	115	95	—	M8x19	4	197.5	12
F 20 2	P71	14	16.3	5	160	130	110	—	M8x16	4.5	197.5	12
F 20 2	P80	19	21.8	6	200	165	130	—	M10x12	4	217	13
F 20 2	P90	24	27.3	8	200	165	130	—	M10x12	4	217	12
F 20 2	P100	28	31.3	8	250	215	180	—	M12x16	4.5	227	16
F 20 2	P112	28	31.3	8	250	215	180	—	M12x16	4.5	227	16
F 20 3	P63	11	12.8	4	140	115	95	—	M8x19	4	253	13
F 20 3	P71	14	16.3	5	160	130	110	—	M8x16	4.5	253	13
F 20 3	P80	19	21.8	6	200	165	130	—	M10x12	4	272.5	14
F 20 3	P90	24	27.3	8	200	165	130	—	M10x12	4	272.5	14
F 20 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	282.5	18
F 20 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	282.5	18

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA



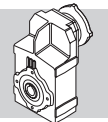
## F 20...N(NEMA Input)



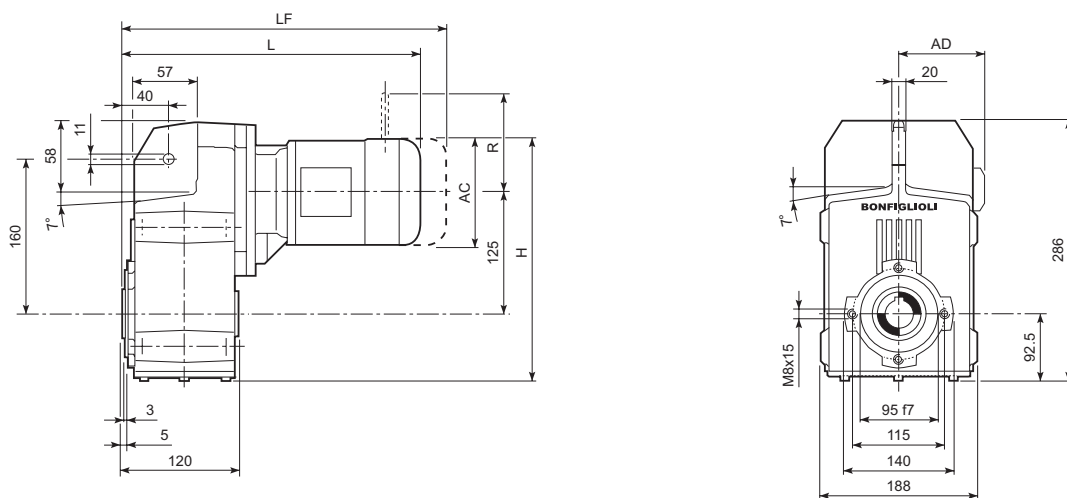
Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	
	<b>N56C</b>	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	8.563	26
	<b>N140TC</b>	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	8.563	29
	<b>N180TC</b>	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0</sup> / <sub>+0.0014</sub>	8.996	7.250	8.500	0.630	0.551	0.217	9.390	35
	<b>N56C</b>	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	10.748	29
	<b>N140TC</b>	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	10.748	31
	<b>N180TC</b>	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0</sup> / <sub>+0.0014</sub>	8.996	7.250	8.500	0.630	0.551	0.217	11.575	40

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC



## F 20...M/ME

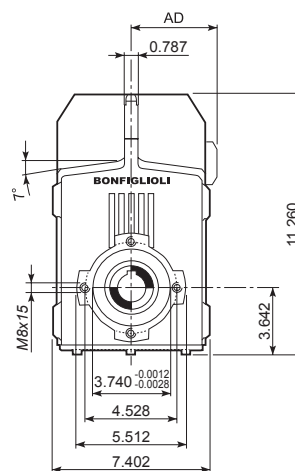
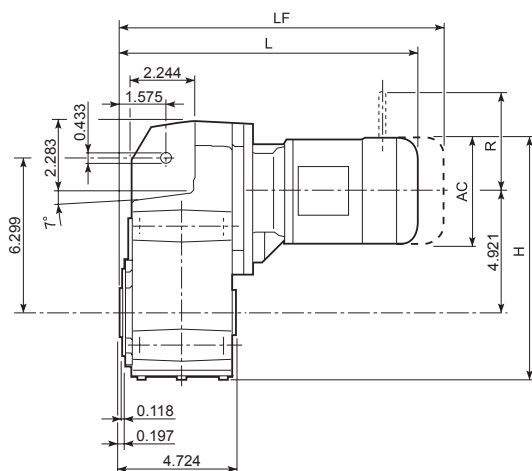


Dimensões em mm

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD		LF		R	AD	R	AD
F 20 2	S05	M05	121	278.2	323.5	95	15	389.5	17	96	122	116	95
F 20 2	S1	M1	138	286.7	352.5	108	17	413.5	20	103	135	124	108
F 20 2	S2	ME2S	156	295.7	381.5	119	21	—	—	—	—	—	—
F 20 2	S3	ME3S	195	315.2	424.5	142	26	—	—	—	—	—	—
F 20 2	S3	ME3L	195	315.2	456.5	142	33	—	—	—	—	—	—
F 20 3	S05	M05	121	278.2	379	95	17	445	18	96	122	116	95
F 20 3	S1	M1	138	286.7	408	108	19	469	21	103	135	124	108
F 20 3	S2	ME2S	156	295.7	437	119	22	—	—	—	—	—	—
F 20 3	S3	ME3S	195	315.2	480	142	27	—	—	—	—	—	—
F 20 3	S3	ME3L	195	315.2	512	142	34	—	—	—	—	—	—

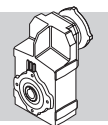


## F 20...M/ME

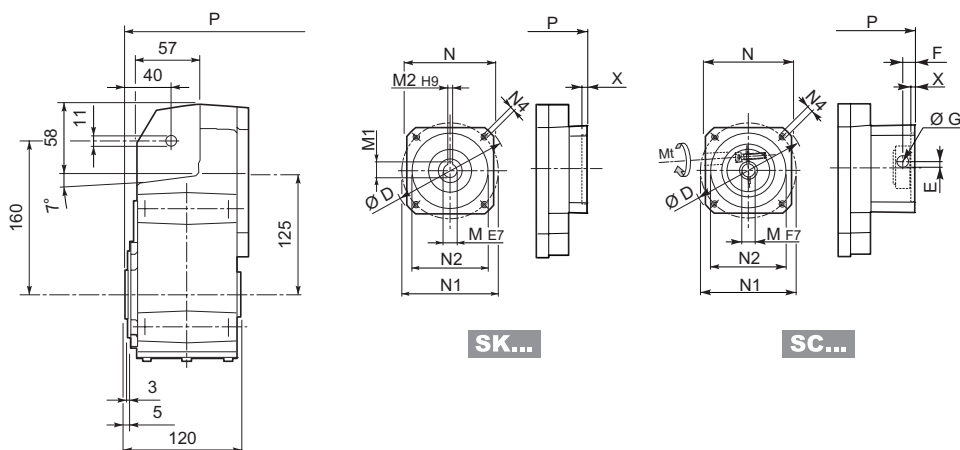


Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

			M...FD M...FA						M...FD		M...FA		
			AC	H	L	AD	lbs	LF	lbs	R	AD	R	AD
F 20 2	S05	M05	4.764	10.953	12.736	3.740	33	15.335	37	3.780	4.803	4.567	3.740
F 20 2	S1	M1	5.433	11.287	13.878	4.252	37	16.280	44	4.055	5.315	4.882	4.252
F 20 2	S2	ME2S	6.142	11.642	15.020	4.685	46	—	—	—	—	—	—
F 20 2	S3	ME3S	7.677	12.409	16.713	5.591	57	—	—	—	—	—	—
F 20 2	S3	ME3L	7.677	12.409	17.972	5.591	73	—	—	—	—	—	—
F 20 3	S05	M05	4.764	10.953	14.921	3.740	37	17.520	40	3.780	4.803	4.567	3.740
F 20 3	S1	M1	5.433	11.287	16.063	4.252	42	18.465	46	4.055	5.315	4.882	4.252
F 20 3	S2	ME2S	6.142	11.642	17.205	4.685	49	—	—	—	—	—	—
F 20 3	S3	ME3S	7.677	12.409	18.898	5.591	60	—	—	—	—	—	—
F 20 3	S3	ME3L	7.677	12.409	20.157	5.591	75	—	—	—	—	—	—



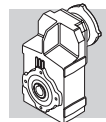
## F 20...SK / SC



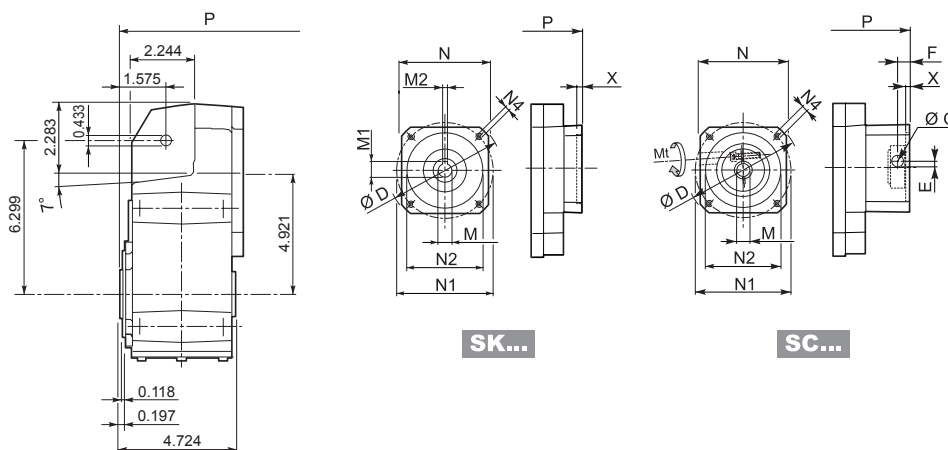
Dimensões em mm

		D	M	M1	M2	N	N1	N2	N4	X	2x		3x	
											P		P	
	SK 60A	102	11	12.8	4	82	75	60	M5x10	3.5	169	11	224.5	12
	SK 60B	102	14	16.3	5	82	75	60	M5x10	4	176	12	231.5	13
	SK 80A	115	14	16.3	5	90	100	80	M6x12	4	217	12	231.5	13
	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	217	13	272.5	14
	SK 95A	130	14	16.3	5	102	115	95	M8x12	4	217	13	272.5	14
	SK 95B	130	19	21.8	6	102	115	95	M8x12	4	217	13	272.5	14
	SK 95C	130	24	27.3	8	102	115	95	M8x12	4	217	13	272.5	14
	SK 110A	150	19	21.8	6	120	130	110	M8x12	5	217	13	272.5	14
	SK 110B	150	24	27.3	8	120	130	110	M8x12	5	217	13	272.5	14

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	2x		3x	
														P		P	
	SC 60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	196	12	251.5	13
	SC 60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	196	13	251.5	14
	SC 80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	196	13	251.5	14
	SC 80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	240.5	14	296	15
	SC 95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	240.5	14	296	15
	SC 95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	240.5	14	296	15
	SC 95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	240.5	14	296	15
	SC 110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	240.5	15	296	16
	SC 110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	240.5	15	296	16



## F 20...SK / SC

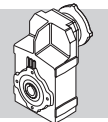


Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

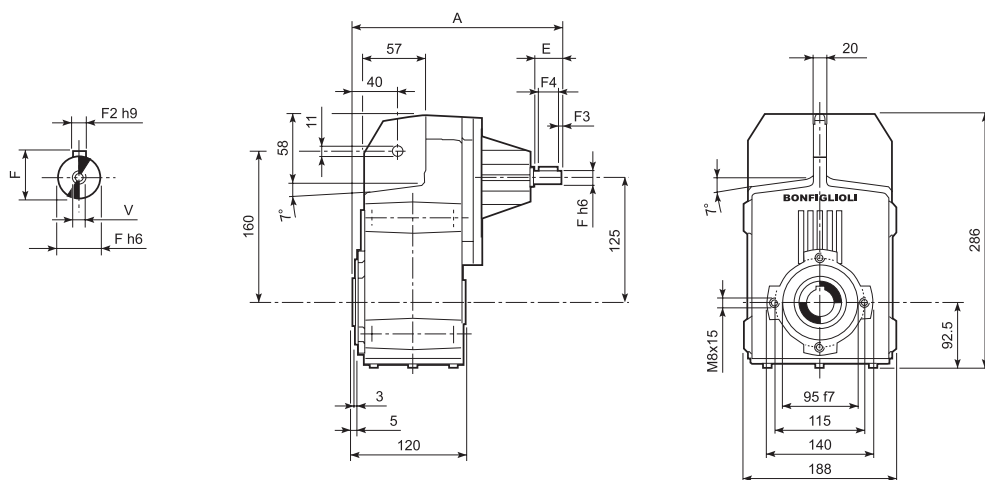
		D	M	M1	M2	N	N1	N2	N4	X	2x		3x	
											P	lbs	P	lbs
		4.016	0.433 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.504	0.157 <sup>+0.0012</sup> / <sub>+</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.138	6.654	24	8.839	26
		4.016	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.157	6.929	26	9.114	29
		4.528	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+</sub>	3.543	3.937	3.150	<i>M6x12</i>	0.157	8.543	26	9.114	29
		4.724	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	8.543	29	10.728	31
		5.118	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	8.543	29	10.728	31
		5.118	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	8.543	29	10.728	31
		5.118	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	8.543	29	10.728	31
		5.906	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+</sub>	4.724	5.118	4.331	<i>M8x12</i>	0.197	8.543	29	10.728	31
		5.906	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+</sub>	4.724	5.118	4.331	<i>M8x12</i>	0.197	8.543	29	10.728	31

			Mt [lb • in]	D	E	F	G	M	N	N1	N2	N4	X	2x		3x	
														P	lbs	P	lbs
		<i>M6</i>	133	4.016	0.276	0.492	0.492	0.433 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.157	7.717	26	9.902	29
		<i>M6</i>	133	4.016	0.276	0.492	0.492	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.157	7.717	29	9.902	31
		<i>M6</i>	133	4.528	0.236	0.492	0.492	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.543	3.937	3.150	<i>M6x12</i>	0.157	7.717	29	9.902	31
		<i>M6</i>	133	4.724	0.610	0.571	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	9.469	31	11.654	33
		<i>M6</i>	133	5.118	0.650	0.591	0.699	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	9.469	31	11.654	33
		<i>M6</i>	133	5.118	0.650	0.591	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	9.469	31	11.654	33
		<i>M6</i>	133	5.118	0.650	0.591	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	9.469	31	11.654	33
		<i>M6</i>	133	5.906	0.650	0.630	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	<i>M8x16</i>	0.197	9.469	33	11.654	35
		<i>M6</i>	133	5.906	0.650	0.630	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	<i>M8x16</i>	0.197	9.469	33	11.654	35





## F 20...HS



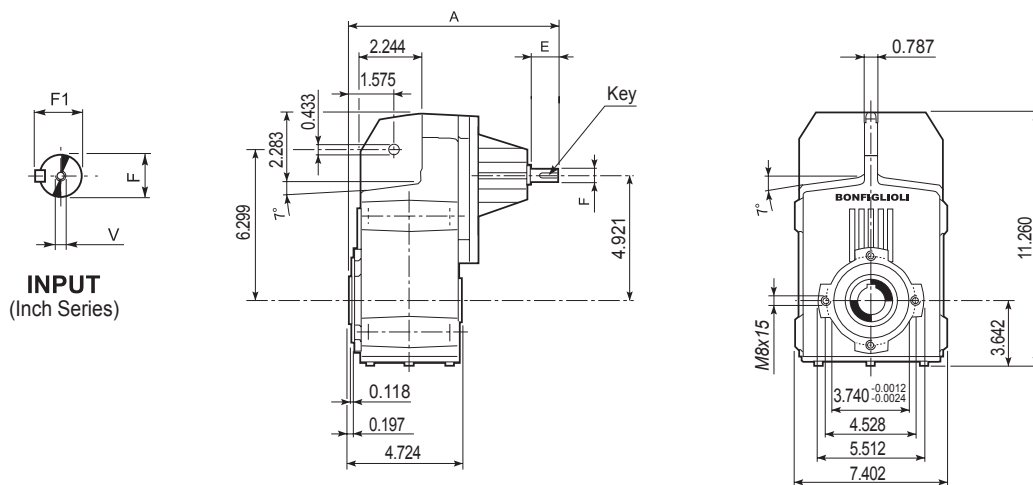
Dimensões em mm

		A	E	F	F1	F2	F3	F4	V	Kg
	HS	247.5	40	19	21.5	6	2.5	35	M6x16	11.5
<b>F 20 2</b> <b>F 20 3</b>		260	40	16	18	5	2.5	35	M6x16	12.4




Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS



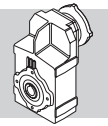
## F 20...NHS



Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

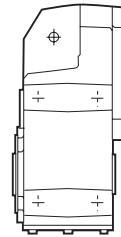
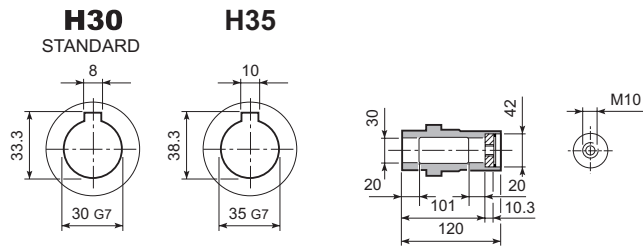
		A	E	F	F1	V	Key	
<b>F 20 2</b>	<b>NHS</b>	9.744	1.575	0.750 <small>+0 -0.0005</small>	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	25
<b>F 20 3</b>		10.236	1.575	0.625 <small>+0 -0.0004</small>	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	27

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

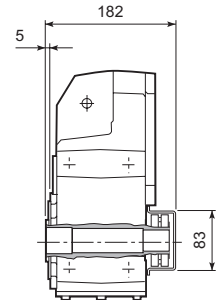
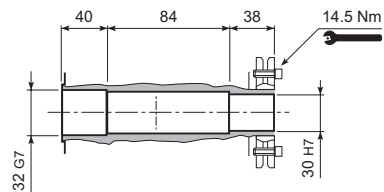


# F 20

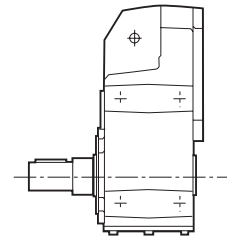
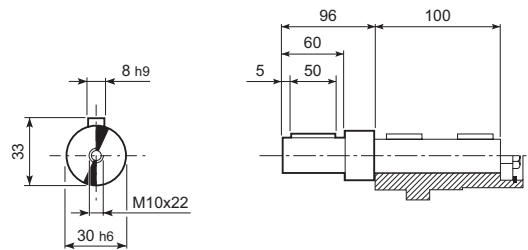
## F 20...H



## F 20...S

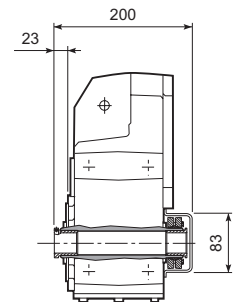
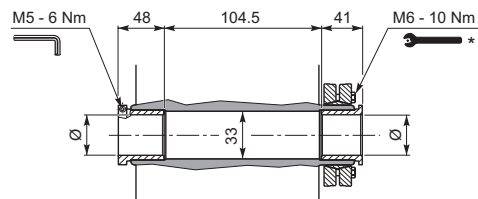


## F 20...R

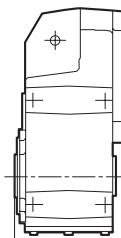
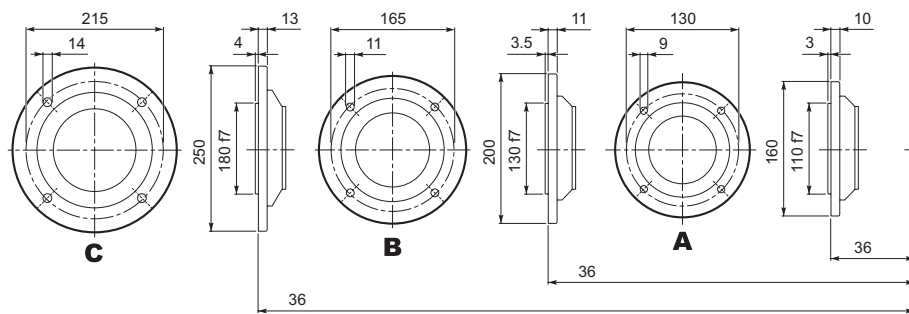


## F 20...QF

	Ø
QF25	25
QF30	30



## F 20...F...

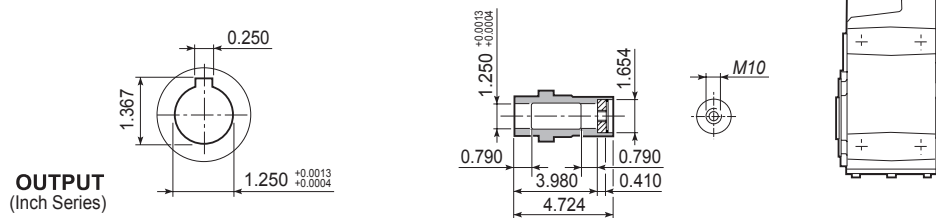


\* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

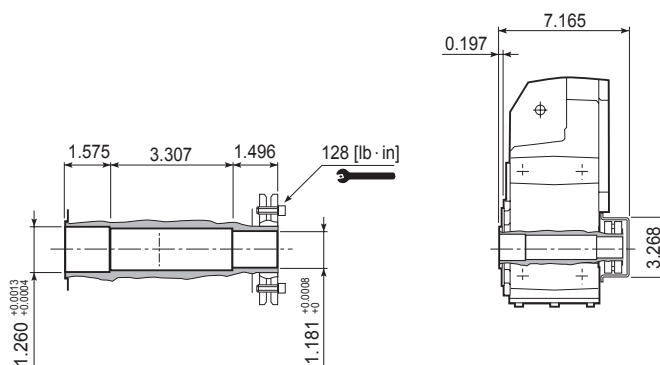


# F 20

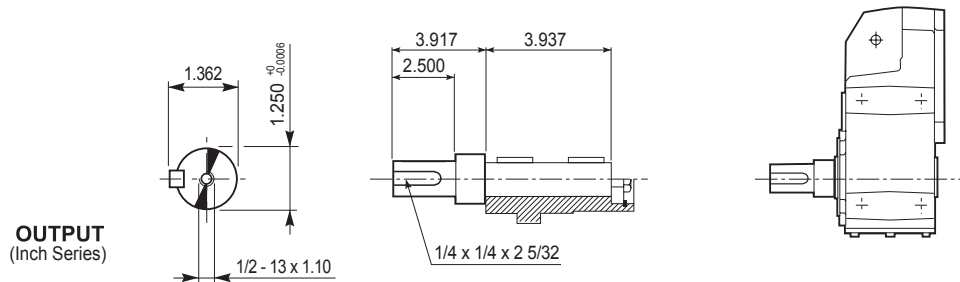
## F 20...NH



## F 20...S

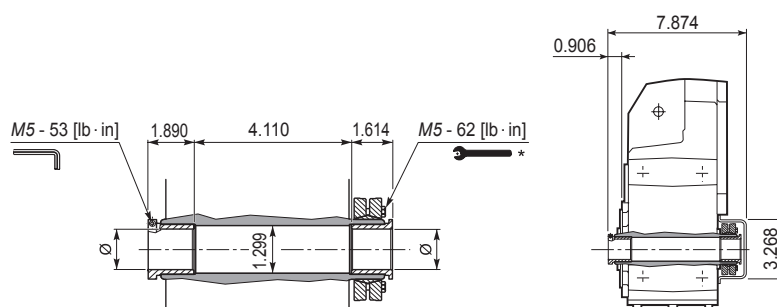


## F 20...NR

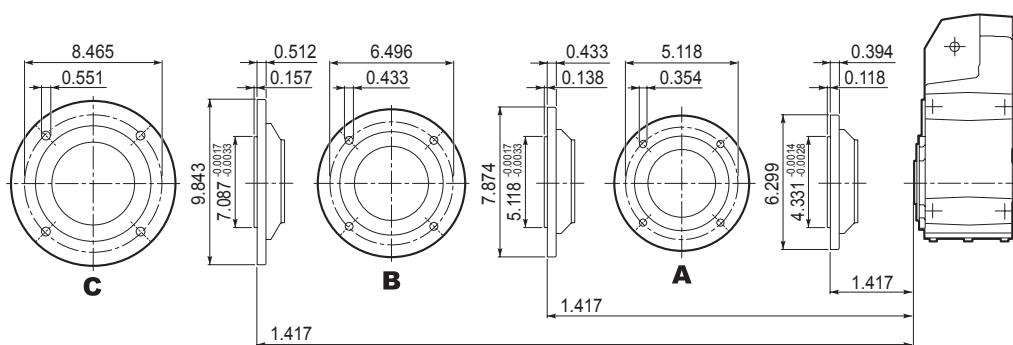


## F 20...NQF

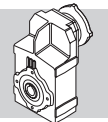
	Ø
NQF1	1.000
NQF1-3/16	1.188



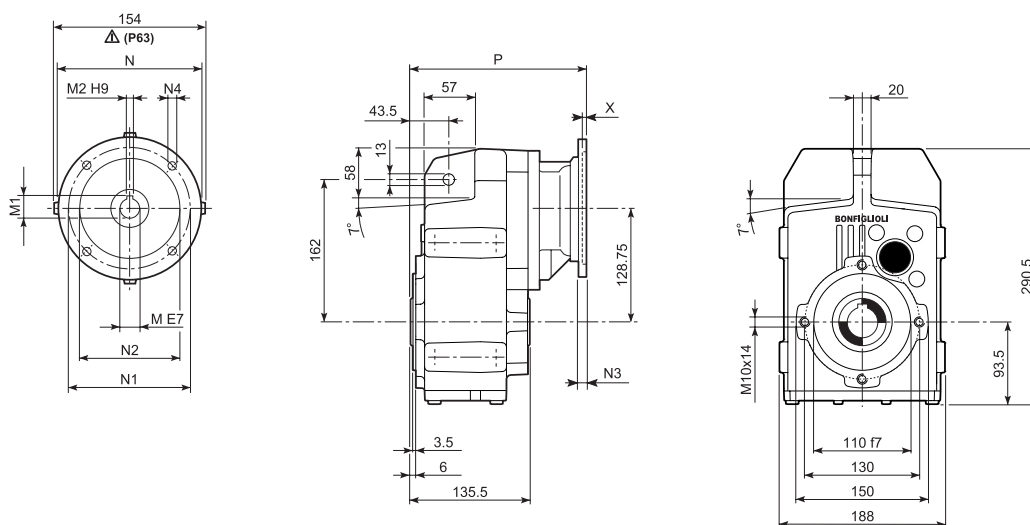
## F 20...F...



\* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.



## F 25...P(IEC)



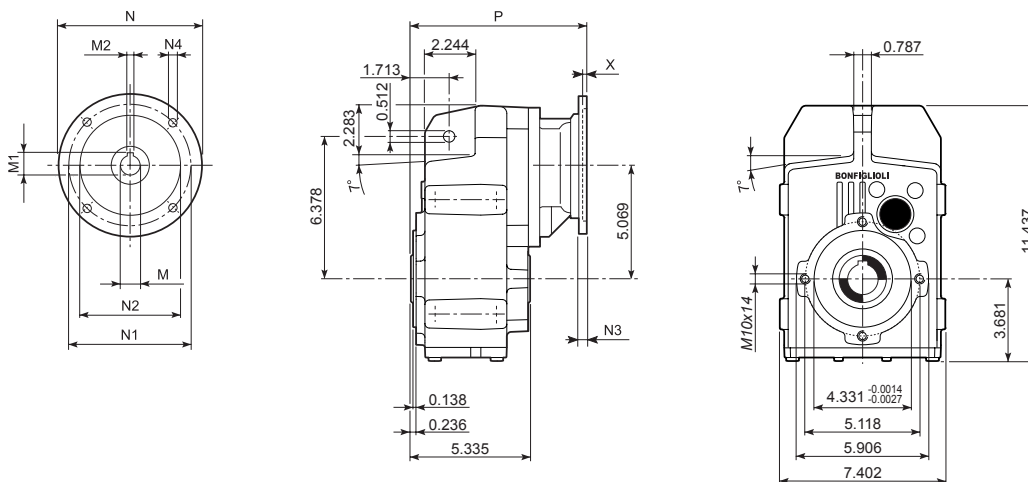
Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 25 2/3	P63	11	12.8	4	140	115	95	—	M8x19	4	213	12
F 25 2/3	P71	14	16.3	5	160	130	110	—	M8x16	4.5	213	12
F 25 2/3	P80	19	21.8	6	200	165	130	—	M10x12	4	232.5	13
F 25 2/3	P90	24	27.3	8	200	165	130	—	M10x12	4	232.5	13
F 25 2/3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	242.5	16
F 25 2/3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	242.5	16
F 25 4	P63	11	12.8	4	140	115	95	—	M8x19	4	268.5	13
F 25 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	268.5	13
F 25 4	P80	19	21.8	6	200	165	130	—	M10x12	4	288	14
F 25 4	P90	24	27.3	8	200	165	130	—	M10x12	4	288	14
F 25 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	298	18
F 25 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	298	18

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA



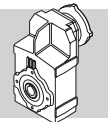
## F 25...N(NEMA Input)



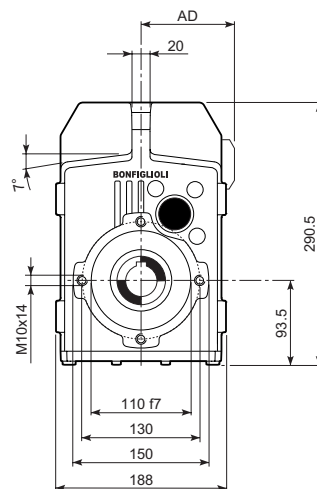
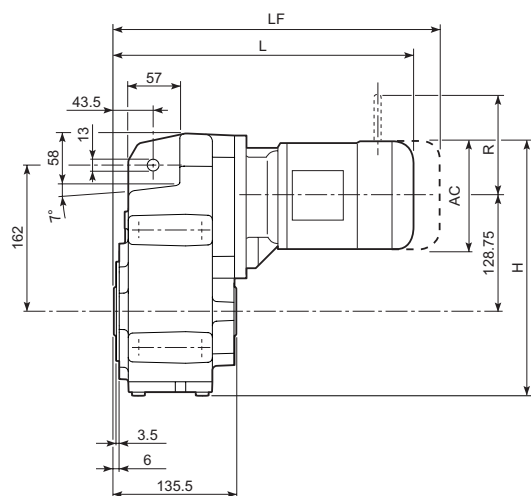
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		M	M1	M2	N	N1	N2	N3	N4	X	P	
F 25 2/3	N56C	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	9.173	26
F 25 2/3	N140TC	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	9.173	29
F 25 2/3	N180TC	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0</sup> / <sub>+0.0014</sub>	8.996	7.250	8.500	0.630	0.551	0.217	10.000	35
F 25 4	N56C	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	11.358	29
F 25 4	N140TC	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	11.358	31
F 25 4	N180TC	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0</sup> / <sub>+0.0014</sub>	8.996	7.250	8.500	0.630	0.551	0.217	12.185	40

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

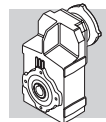


## F 25...M/ME

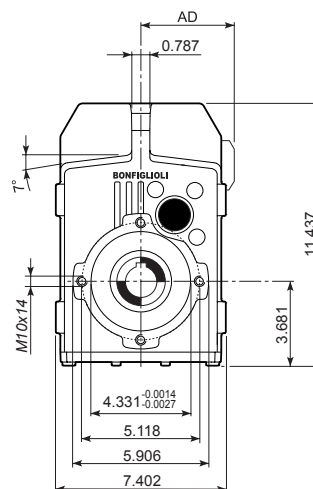
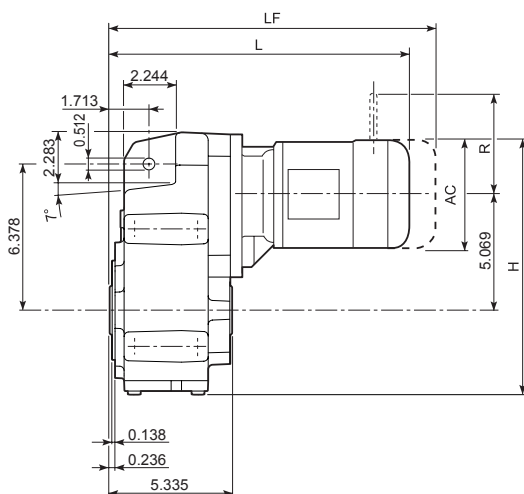


Dimensões em mm

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD		LF		R	AD	R	AD
F 25 2/3	S05	M05	121	283	339	95	15	405	17	96	122	116	95
F 25 2/3	S1	M1	138	291.5	368	108	17	429	20	103	135	124	108
F 25 2/3	S2	ME2S	156	300.5	397	119	21	—	—	—	—	—	—
F 25 2/3	S3	ME3S	195	320	440	142	26	—	—	—	—	—	—
F 25 2/3	S3	ME3L	195	320	472	142	33	—	—	—	—	—	—
F 25 4	S05	M05	121	283	394.5	95	17	460.5	18	96	122	116	95
F 25 4	S1	M1	138	291.5	423.5	108	19	484.5	21	103	135	124	108
F 25 4	S2	ME2S	156	300.5	452.5	119	22	—	—	—	—	—	—
F 25 4	S3	ME3S	195	320	495.5	142	27	—	—	—	—	—	—
F 25 4	S3	ME3L	195	320	527.5	142	34	—	—	—	—	—	—



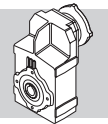
## F 25...M/ME



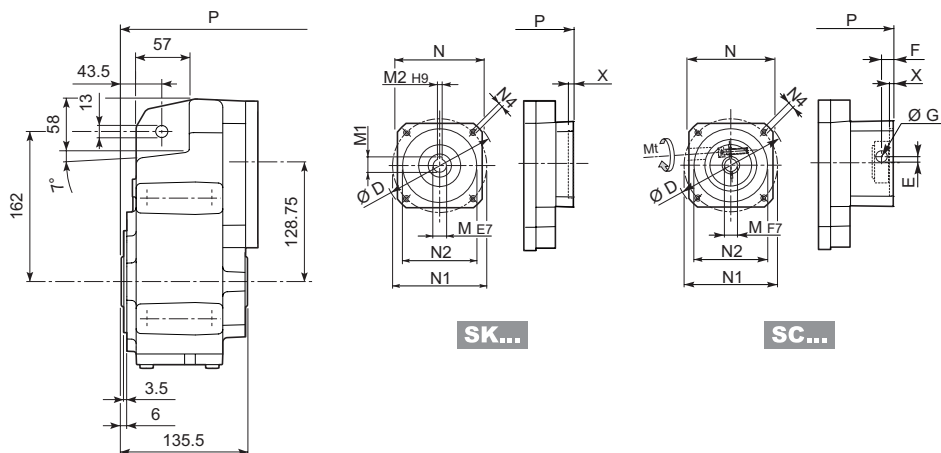
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

									M...FD		M...FD		M...FA	
			AC	H	L	AD		LF		R	AD	R	AD	
F 25 2/3	S05	M05	4.764	11.142	13.346	3.740	33	15.945	37	3.780	4.803	4.567	3.740	
F 25 2/3	S1	M1	5.433	11.476	14.488	4.252	37	16.890	44	4.055	5.315	4.882	4.252	
F 25 2/3	S2	ME2S	6.142	11.831	15.630	4.685	46	—	—	—	—	—	—	
F 25 2/3	S3	ME3S	7.677	12.598	17.323	5.591	57	—	—	—	—	—	—	
F 25 2/3	S3	ME3L	7.677	12.598	18.583	5.591	73	—	—	—	—	—	—	
F 25 4	S05	M05	4.764	11.142	15.531	3.740	37	18.130	40	3.780	4.803	4.567	3.740	
F 25 4	S1	M1	5.433	11.476	16.673	4.252	42	19.075	46	4.055	5.315	4.882	4.252	
F 25 4	S2	ME2S	6.142	11.831	17.815	4.685	49	—	—	—	—	—	—	
F 25 4	S3	ME3S	7.677	12.598	19.508	5.591	60	—	—	—	—	—	—	
F 25 4	S3	ME3L	7.677	12.598	20.768	5.591	75	—	—	—	—	—	—	





## F 25...SK / SC



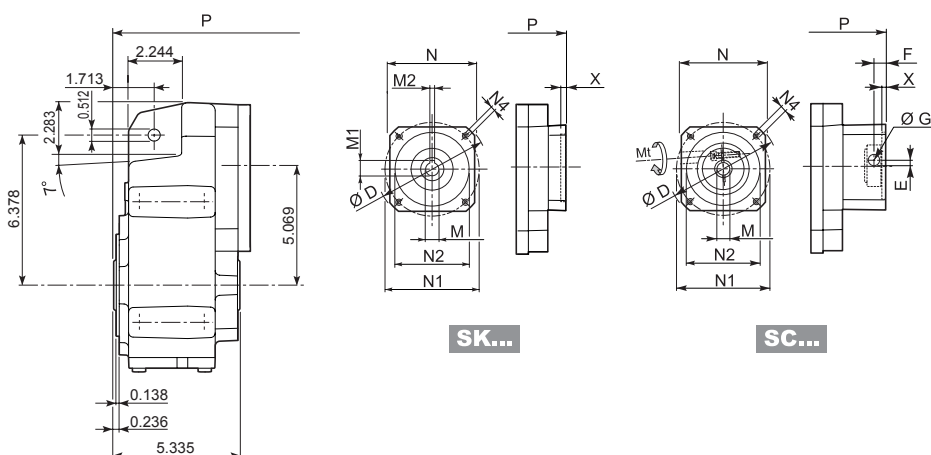
Dimensões em mm

		D	M	M1	M2	N	N1	N2	N4	X	2/3x		4x			
											P	Kg	P	Kg		
		F 25 2/3/4	SK 60A	102	11	12.8	4	82	75	60	M5x10	3.5	184.5	11	240	12
		F 25 2/3/4	SK 60B	102	14	16.3	5	82	75	60	M5x10	4	191.5	12	247	13
		F 25 2/3/4	SK 80A	115	14	16.3	5	90	100	80	M6x12	4	191.5	12	247	13
		F 25 2/3/4	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	232.5	13	288	14
		F 25 2/3/4	SK 95A	130	14	16.3	5	102	115	95	M8x12	4	232.5	13	288	14
		F 25 2/3/4	SK 95B	130	19	21.8	6	102	115	95	M8x12	4	232.5	13	288	14
		F 25 2/3/4	SK 95C	130	24	27.3	8	102	115	95	M8x12	4	232.5	13	288	14
		F 25 2/3/4	SK 110A	150	19	21.8	6	120	130	110	M8x12	5	232.5	13	288	14
		F 25 2/3/4	SK 110B	150	24	27.3	8	120	130	110	M8x12	5	232.5	13	288	14

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	2/3x		4x			
														P	Kg	P	Kg		
		F 25 2/3/4	SC 60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	211.5	12	267	13
		F 25 2/3/4	SC 60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	211.5	13	267	14
		F 25 2/3/4	SC 80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	211.5	13	267	14
		F 25 2/3/4	SC 80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	256	14	311.5	15
		F 25 2/3/4	SC 95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	256	14	311.5	15
		F 25 2/3/4	SC 95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	256	14	311.5	15
		F 25 2/3/4	SC 95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	256	14	311.5	15
		F 25 2/3/4	SC 110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	256	15	311.5	16
		F 25 2/3/4	SC 110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	256	15	311.5	16



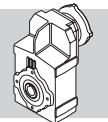
## F 25...SK / SC



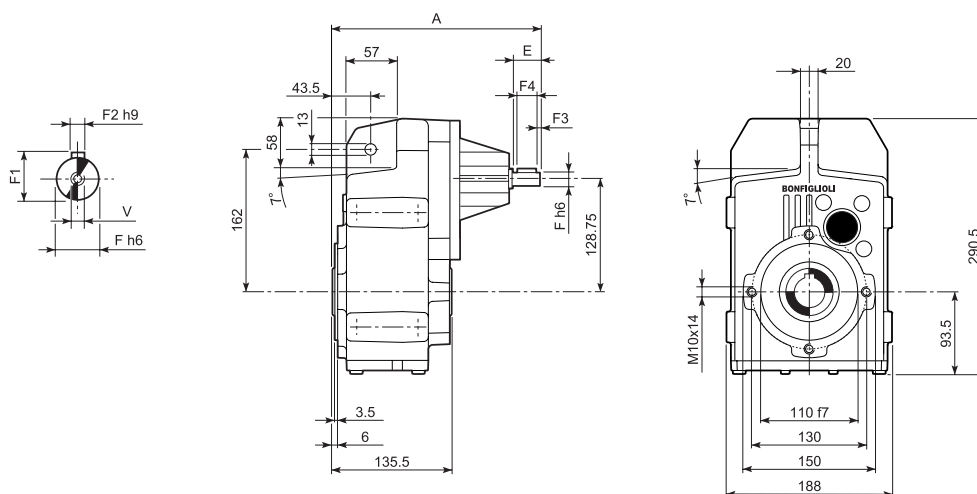
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		D	M	M1	M2	N	N1	N2	N4	X	2/3x		4x	
											P	lbs	P	lbs
F 25 2/3/4	SK 60A	4.016	0.433 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.504	0.157 <sup>+0.0012</sup> / <sub>+0</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.138	7.264	24	9.449	26
F 25 2/3/4	SK 60B	4.016	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.157	7.539	26	9.724	29
F 25 2/3/4	SK 80A	4.528	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	3.543	3.937	3.150	<i>M6x12</i>	0.157	7.539	26	9.724	29
F 25 2/3/4	SK 80C	4.724	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	9.154	29	11.339	31
F 25 2/3/4	SK 95A	5.118	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	9.154	29	11.339	31
F 25 2/3/4	SK 95B	5.118	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	9.154	29	11.339	31
F 25 2/3/4	SK 95C	5.118	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	9.154	29	11.339	31
F 25 2/3/4	SK 110A	5.906	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	4.724	5.118	4.331	<i>M8x12</i>	0.197	9.154	29	11.339	31
F 25 2/3/4	SK 110B	5.906	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	4.724	5.118	4.331	<i>M8x12</i>	0.197	9.154	29	11.339	31

			Mt [lb · in]	D	E	F	G	M	N	N1	N2	N4	X	2/3x		4x	
														P	lbs	P	lbs
F 25 2/3/4	SC 60A	<i>M6</i>	133	4.016	0.276	0.492	0.492	0.433 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.157	8.327	26	10.512	29
F 25 2/3/4	SC 60B	<i>M6</i>	133	4.016	0.276	0.492	0.492	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.157	8.327	29	10.512	31
F 25 2/3/4	SC 80A	<i>M6</i>	133	4.528	0.236	0.492	0.492	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.543	3.937	3.150	<i>M6x12</i>	0.157	8.327	29	10.512	31
F 25 2/3/4	SC 80C	<i>M6</i>	133	4.724	0.610	0.571	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	10.079	31	12.264	33
F 25 2/3/4	SC 95A	<i>M6</i>	133	5.118	0.650	0.591	0.699	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	10.079	31	12.264	33
F 25 2/3/4	SC 95B	<i>M6</i>	133	5.118	0.650	0.591	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	10.079	31	12.264	33
F 25 2/3/4	SC 95C	<i>M6</i>	133	5.118	0.650	0.591	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	10.079	31	12.264	33
F 25 2/3/4	SC 110A	<i>M6</i>	133	5.906	0.650	0.630	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	<i>M8x16</i>	0.197	10.079	33	12.264	35
F 25 2/3/4	SC 110B	<i>M6</i>	133	5.906	0.650	0.630	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	<i>M8x16</i>	0.197	10.079	33	12.264	35



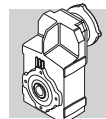
## F 25...HS



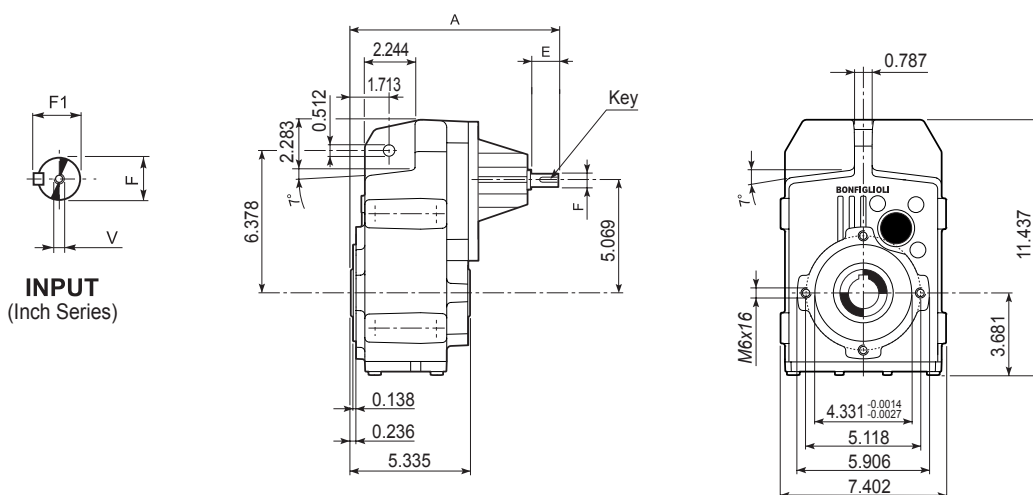
Dimensões em mm

		A	E	F	F1	F2	F3	F4	V	Kg
		263	40	19	21.5	6	2.5	35	M6x16	11.5
<b>F 25 2</b>	<b>HS</b>	263	40	19	21.5	6	2.5	35	M6x16	11.5
<b>F 25 3</b>		275.5	40	16	18	5	2.5	35	M6x16	12.5
<b>F 25 4</b>										

Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS






## F 25...NHS

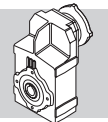


**INPUT**  
(Inch Series)

Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

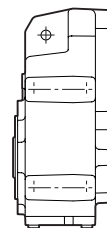
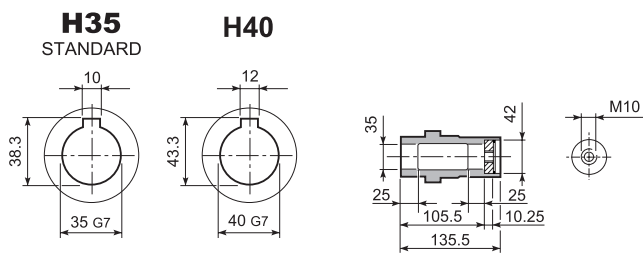
		A	E	F	F1	V	Key	
<b>F 25 2</b>	<b>NHS</b>	10.354	1.575	0.750 <sup>+0</sup> / <sub>-0.0005</sub>	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	25
<b>F 25 3</b>		10.354	1.575	0.750 <sup>+0</sup> / <sub>-0.0005</sub>	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	25
<b>F 25 4</b>		10.846	1.575	0.625 <sup>+0</sup> / <sub>-0.0004</sub>	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	28

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

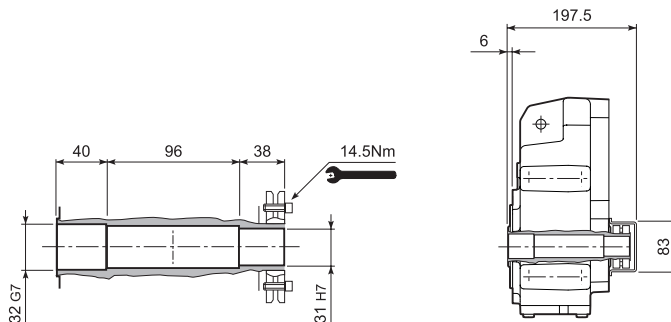


# F 25

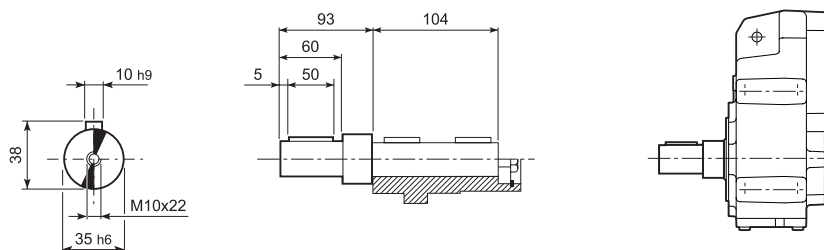
## F 25...H



## F 25...S



## F 25...R

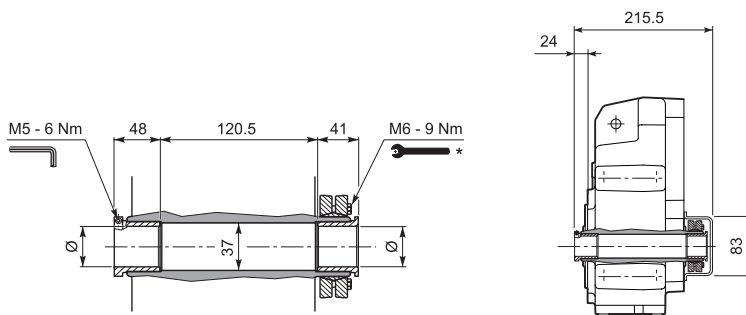


## F 25...QF

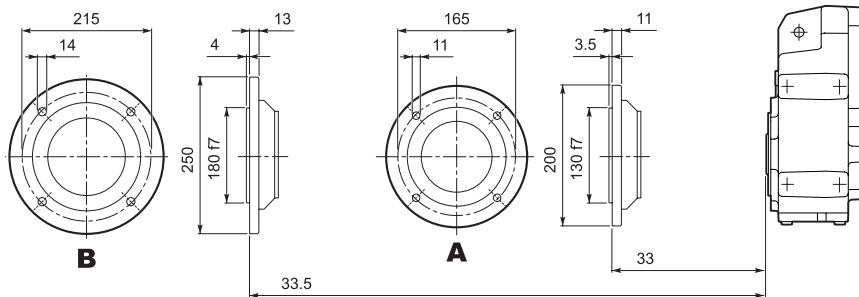
	Ø
QF30	30
QF32	32



	M <sub>n2</sub> max [Nm]
F 25 QF30	350



## F 25...F...

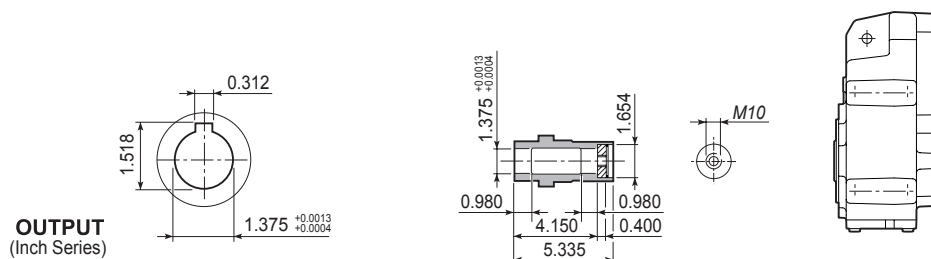


\* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

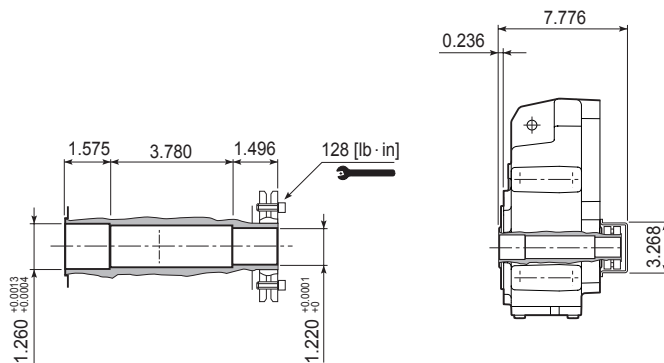


# F 25

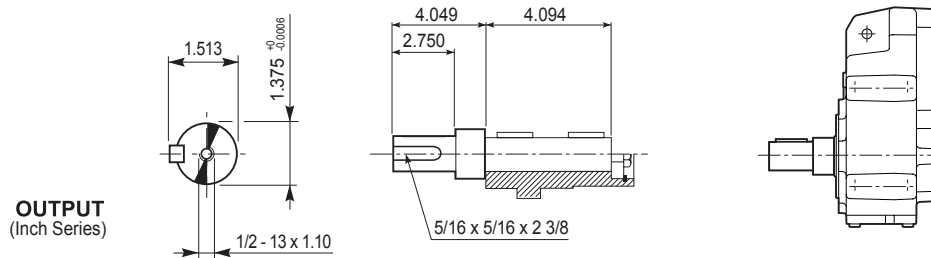
## F 25...NH



## F 25...S



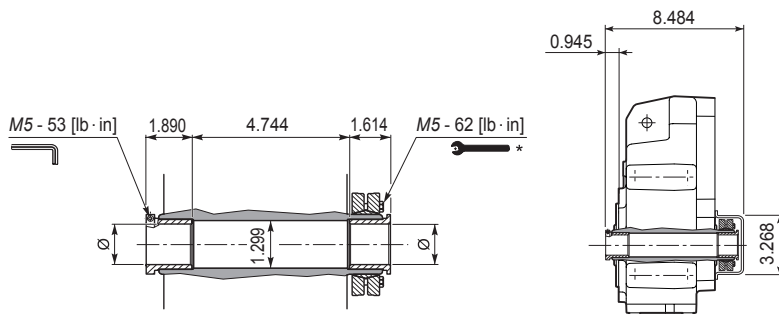
## F 25...NR



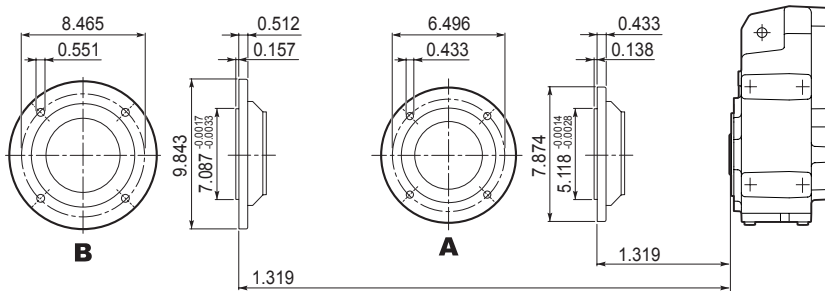
## F 25...NQF

	∅
NQF1-3/16	1.188
NQF1-1/4	1.250

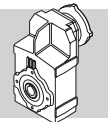
	M <sub>n2</sub> max [Nm]
F 25 NQF1-3/16	350



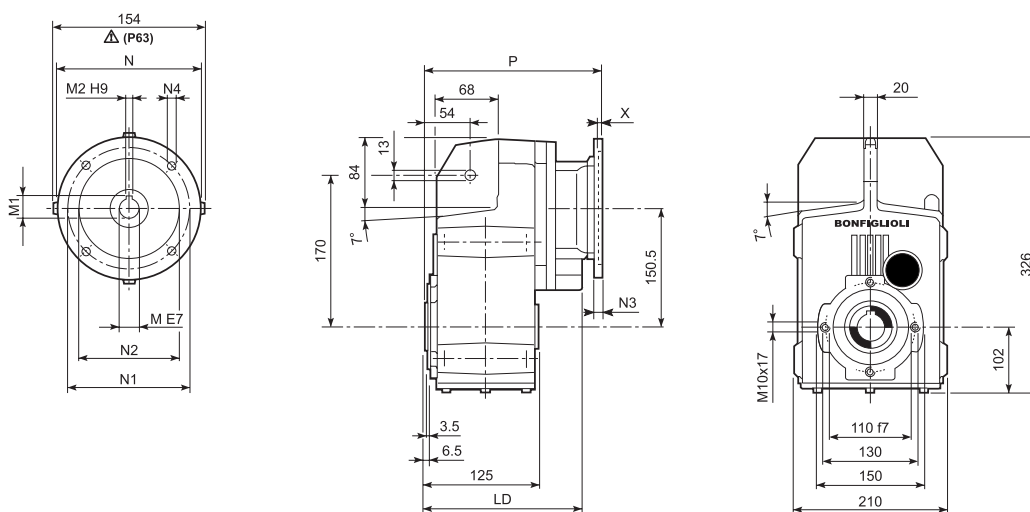
## F 25...F...



\* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.



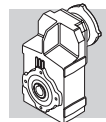
## F 31...P(IEC)



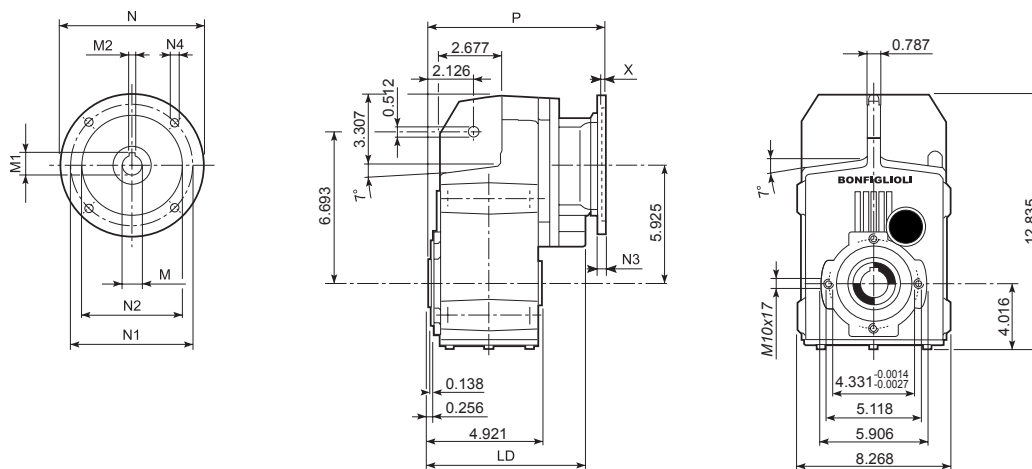
Dimensões em mm

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	kg
F 31 2/3	P63	195.5	11	12.8	4	140	115	95	—	M8x19	4	225.5	17
F 31 2/3	P71	195.5	14	16.3	5	160	130	110	—	M8x16	4.5	225.5	17
F 31 2/3	P80	205.5	19	21.8	6	200	165	130	—	M10x12	4	245	18
F 31 2/3	P90	205.5	24	27.3	8	200	165	130	—	M10x12	4	245	17
F 31 2/3	P100	205.5	28	31.3	8	250	215	180	—	M12x16	4.5	255	21
F 31 2/3	P112	205.5	28	31.3	8	250	215	180	—	M12x16	4.5	255	21
F 31 2/3	P132	—	38	41.3	10	300	265	230	—	14	5	291.5	24
F 31 4	P63	—	11	12.8	4	140	115	95	—	M8x19	4	283	17
F 31 4	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	283	17
F 31 4	P80	—	19	21.8	6	200	165	130	—	M10x12	4	302.5	18
F 31 4	P90	—	24	27.3	8	200	165	130	—	M10x12	4	302.5	18
F 31 4	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	312.5	22
F 31 4	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	312.5	22

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA



## F 31...N(NEMA Input)

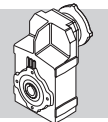


Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

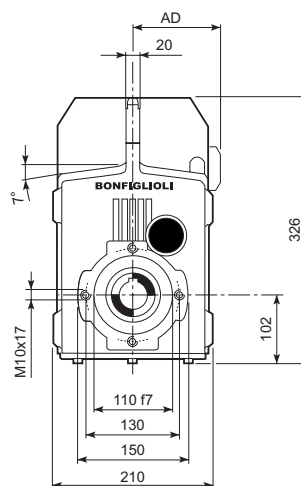
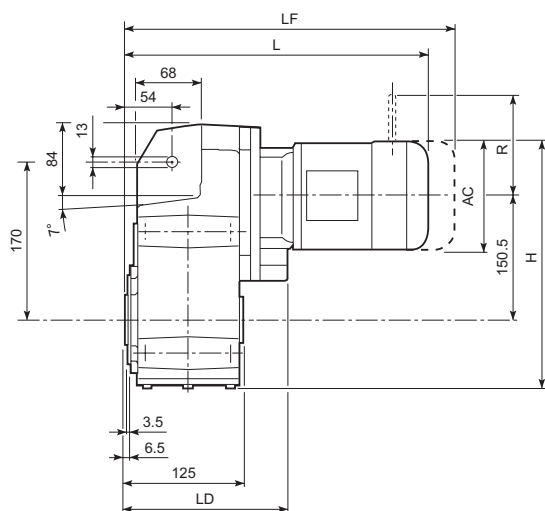
		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	
F 31 2/3	N56C	7.697	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	9.665	37
F 31 2/3	N140TC	7.697	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	9.665	40
F 31 2/3	N180TC	8.091	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0</sup> / <sub>+0.0014</sub>	8.996	7.250	8.500	0.630	0.551	0.217	10.492	46
F 31 2/3	N210TC	—	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+0</sup> / <sub>+0.0014</sub>	8.996	7.250	8.500	0.531	0.531	0.217	11.654	53
F 31 4	N56C	—	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	11.929	37
F 31 4	N140TC	—	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	11.929	40
F 31 4	N180TC	—	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0</sup> / <sub>+0.0014</sub>	8.996	7.250	8.500	0.630	0.551	0.217	12.756	49

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC





## F 31...M/ME

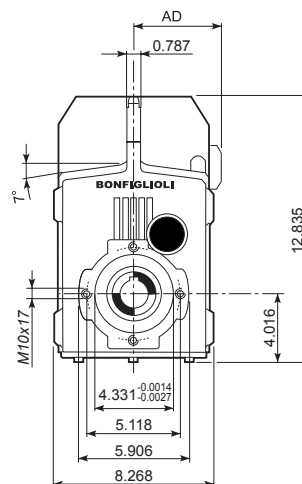
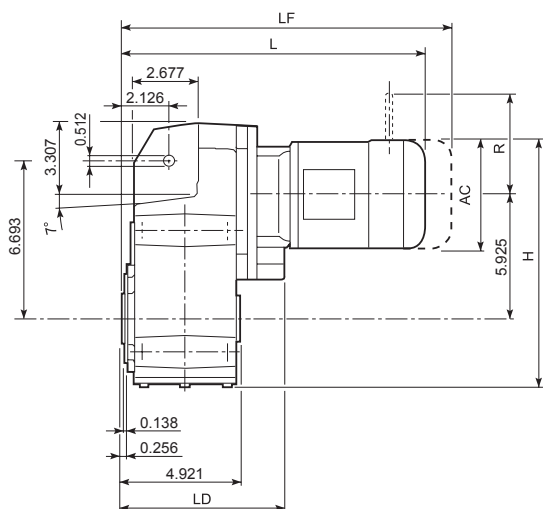


Dimensões em mm

										M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD		LF		R	AD	R	AD	
F 31 2/3	S1	M1	138	321.3	380.5	183.5	108	22	441.5	25	103	135	124	108	
F 31 2/3	S2	ME2S	156	330.3	409.5	195.5	119	26	—	—	—	—	—	—	
F 31 2/3	S3	ME3S	195	349.8	452.5	205.5	142	31	—	—	—	—	—	—	
F 31 2/3	S3	ME3L	195	349.8	484.5	205.5	142	40	—	—	—	—	—	—	
F 31 2/3	S4	ME4	258	381.3	592.5	—	193	72	—	—	—	—	—	—	
F 31 2/3	S4	ME4LA	258	381.3	592.5	—	193	78	—	—	—	—	—	—	
F 31 4	S05	M05	121	312.8	409	—	95	20	475	22	96	122	116	95	
F 31 4	S1	M1	138	321.3	438	—	108	22	499	25	103	135	124	108	
F 31 4	S2	ME2S	156	330.3	467	—	119	26	—	—	—	—	—	—	
F 31 4	S3	ME3S	195	349.8	510	—	142	31	—	—	—	—	—	—	
F 31 4	S3	ME3L	195	349.8	542	—	142	41	—	—	—	—	—	—	

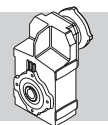


## F 31...M/ME

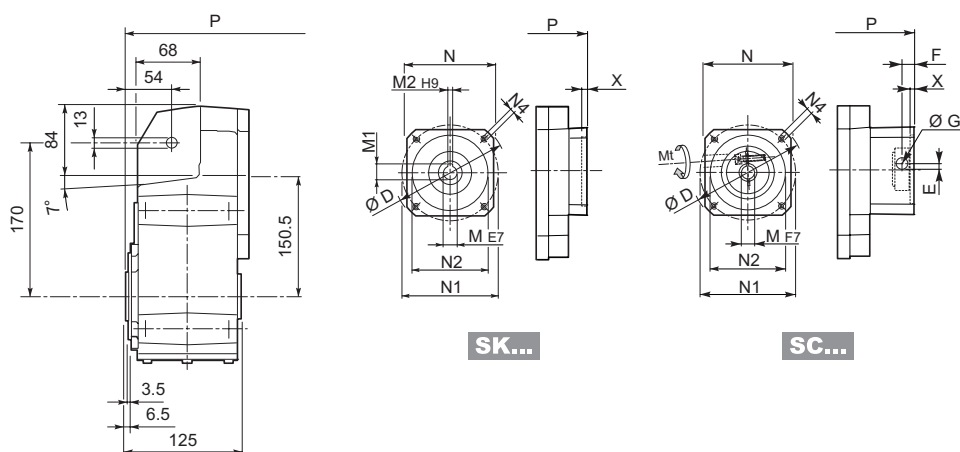


Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

										M...FD M...FA		M...FD		M...FA			
			AC	H	L	LD	AD		LF		R	AD	R	AD			
			F 31 2/3	S1	M1	5.433	12.650	14.980	7.224	4.252	49	17.382	55	4.055	5.315	4.882	4.252
			F 31 2/3	S2	ME2S	6.142	13.004	16.122	7.697	4.685	57	—	—	—	—	—	—
			F 31 2/3	S3	ME3S	7.677	13.772	17.815	8.091	5.591	68	—	—	—	—	—	—
			F 31 2/3	S3	ME3L	7.677	13.772	19.075	8.091	5.591	88	—	—	—	—	—	—
			F 31 2/3	S4	ME4	10.157	15.012	23.327	—	7.598	159	—	—	—	—	—	—
			F 31 2/3	S4	ME4LA	10.157	15.012	23.327	—	7.598	172	—	—	—	—	—	—
			F 31 4	S05	M05	4.764	12.315	16.102	—	3.740	44	18.701	49	3.780	4.803	4.567	3.740
			F 31 4	S1	M1	5.433	12.650	17.244	—	4.252	49	19.646	55	4.055	5.315	4.882	4.252
			F 31 4	S2	ME2S	6.142	13.004	18.386	—	4.685	57	—	—	—	—	—	—
			F 31 4	S3	ME3S	7.677	13.772	20.079	—	5.591	68	—	—	—	—	—	—
			F 31 4	S3	ME3L	7.677	13.772	21.339	—	5.591	90	—	—	—	—	—	—



## F 31...SK / SC



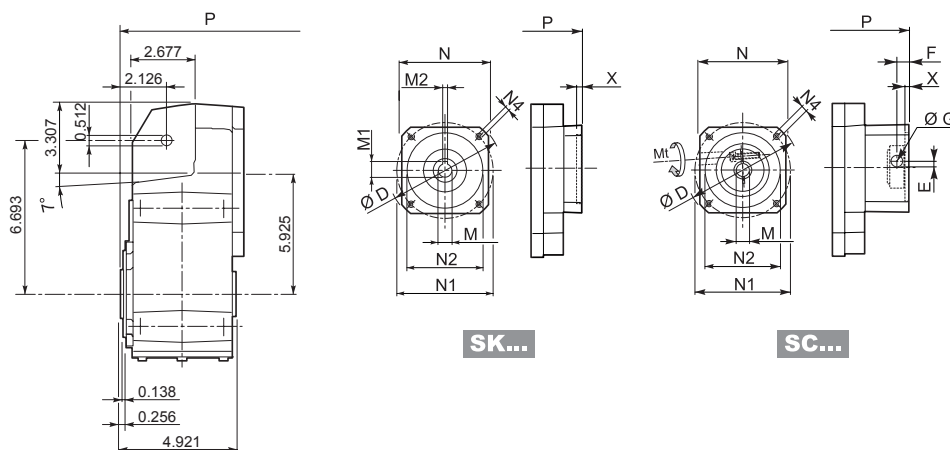
Dimensões em mm

		D	M	M1	M2	N	N1	N2	N4	X	2/3x		4x	
											P	Kg	P	Kg
	SK 60A	102	11	12.8	4	82	75	60	M5x10	3.5	197	16	254.5	16
	SK 60B	102	14	16.3	5	82	75	60	M5x10	4	204	17	261.5	17
	SK 80A	115	14	16.3	5	90	100	80	M6x12	4	204	17	261.5	17
	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	245	18	302.5	18
	SK 95A	130	14	16.3	5	102	115	95	M8x12	4	245	18	302.5	18
	SK 95B	130	19	21.8	6	102	115	95	M8x12	4	245	18	302.5	18
	SK 95C	130	24	27.3	8	102	115	95	M8x12	4	245	18	302.5	18
	SK 110A	150	19	21.8	6	120	130	110	M8x12	5	245	18	302.5	18
	SK 110B	150	24	27.3	8	120	130	110	M8x12	5	245	18	302.5	18
	SK 130A	188	24	27.3	8	142	165	130	M10x20	5	245	18	—	—

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	2/3x		4x	
														P	Kg	P	Kg
	SC 60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	224	17	281.5	17
	SC 60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	224	18	281.5	18
	SC 80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	224	18	281.5	18
	SC 80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	268.5	19	326	19
	SC 95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	268.5	19	326	19
	SC 95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	268.5	19	326	19
	SC 95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	268.5	19	326	19
	SC 110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	268.5	20	326	20
	SC 110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	268.5	20	326	20
	SC 130A	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	268.5	21	—	—



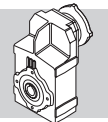
## F 31...SK / SC



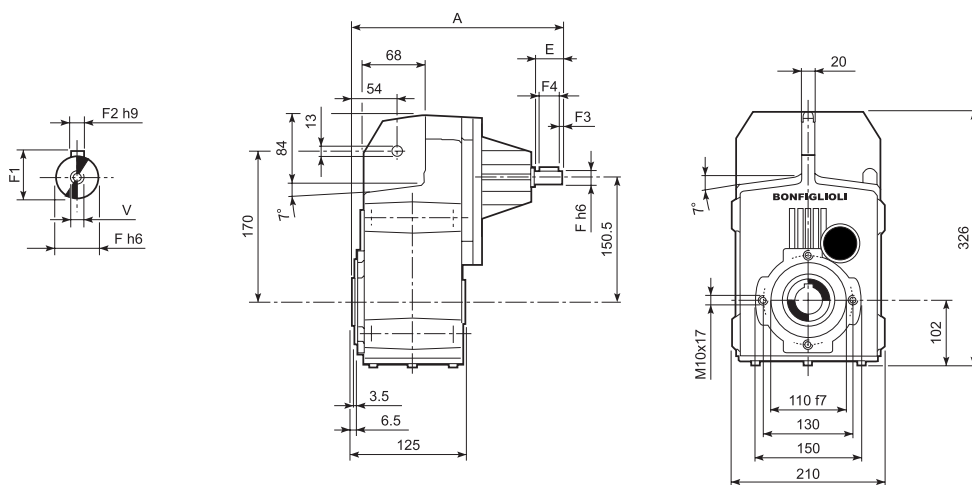
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		D	M	M1	M2	N	N1	N2	N4	X	2/3x		4x	
											P	lbs	P	lbs
F 31 2/3/4	SK 60A	4.016	0.433 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.504	0.157 <sup>+0.0012</sup> / <sub>+0</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.138	7.756	35	10.020	35
F 31 2/3/4	SK 60B	4.016	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.157	8.031	37	10.295	37
F 31 2/3/4	SK 80A	4.528	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	3.543	3.937	3.150	<i>M6x12</i>	0.157	8.031	37	10.295	37
F 31 2/3/4	SK 80C	4.724	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	9.646	40	11.909	40
F 31 2/3/4	SK 95A	5.118	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	9.646	40	11.909	40
F 31 2/3/4	SK 95B	5.118	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	9.646	40	11.909	40
F 31 2/3/4	SK 95C	5.118	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	9.646	40	11.909	40
F 31 2/3/4	SK 110A	5.906	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	4.724	5.118	4.331	<i>M8x12</i>	0.197	9.646	40	11.909	40
F 31 2/3/4	SK 110B	5.906	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	4.724	5.118	4.331	<i>M8x12</i>	0.197	9.646	40	11.909	40
F 31 2/3	SK 130A	7.402	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	5.591	6.496	5.118	<i>M10x20</i>	0.197	9.646	40	—	—



		Mt [lb · in]	D	E	F	G	M	N	N1	N2	N4	X	2/3x		4x	
													P	lbs	P	lbs
F 31 2/3/4	SC 60A	<i>M6</i> 133	4.016	0.276	0.492	0.492	0.433 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.157	8.819	37	11.083	37
F 31 2/3/4	SC 60B	<i>M6</i> 133	4.016	0.276	0.492	0.492	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.157	8.819	40	11.083	40
F 31 2/3/4	SC 80A	<i>M6</i> 133	4.528	0.236	0.492	0.492	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.543	3.937	3.150	<i>M6x12</i>	0.157	8.819	40	11.083	40
F 31 2/3/4	SC 80C	<i>M6</i> 133	4.724	0.610	0.571	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	10.571	42	12.835	42
F 31 2/3/4	SC 95A	<i>M6</i> 133	5.118	0.650	0.591	0.699	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	10.571	42	12.835	42
F 31 2/3/4	SC 95B	<i>M6</i> 133	5.118	0.650	0.591	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	10.571	42	12.835	42
F 31 2/3/4	SC 95C	<i>M6</i> 133	5.118	0.650	0.591	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	10.571	42	12.835	42
F 31 2/3/4	SC 110A	<i>M6</i> 133	5.906	0.650	0.630	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	<i>M8x16</i>	0.197	10.571	44	12.835	44
F 31 2/3/4	SC 110B	<i>M6</i> 133	5.906	0.650	0.630	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	<i>M8x16</i>	0.197	10.571	44	12.835	44
F 31 2/3	SC 130A	<i>M6</i> 133	7.402	0.748	0.630	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	5.591	6.496	5.118	<i>M10x20</i>	0.197	10.571	46	—	—



## F 31...HS



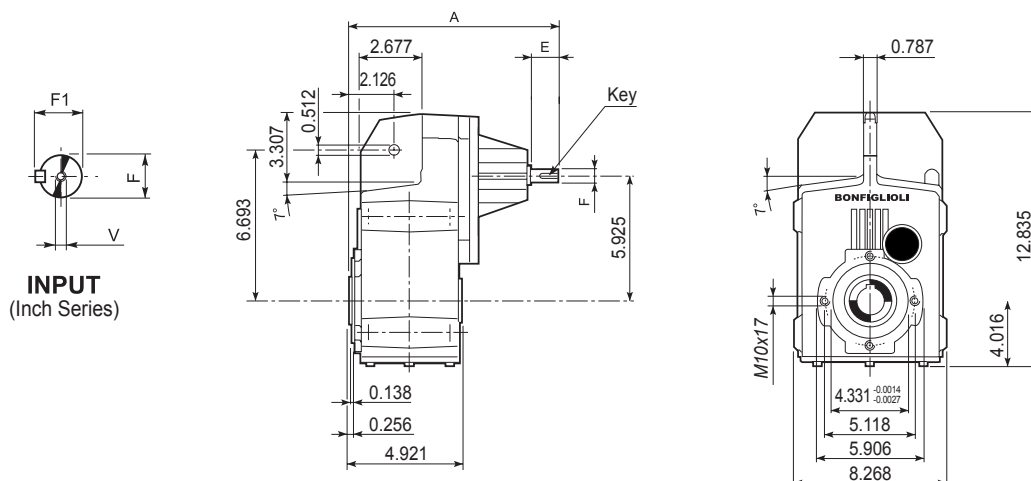
Dimensões em mm

		A	E	F	F1	F2	F3	F4	V	Kg
										
<b>F 31 2</b>	<b>HS</b>	275.5	40	19	21.5	6	2.5	35	M6x16	16.7
<b>F 31 3</b>		275.5	40	19	21.5	6	2.5	35	M6x16	16.7
<b>F 31 4</b>		290	40	16	18	5	2.5	35	M6x16	16.5




Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS



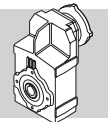
## F 31...NHS



Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

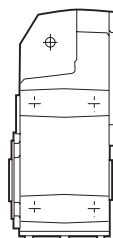
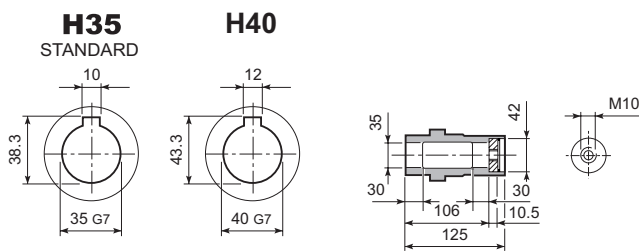
		A	E	F	F1	V	Key	
<b>F 31 2</b>	<b>NHS</b>	10.846	1.575	0.750 <sup>+0</sup> / <sub>-0.0005</sub>	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	37
<b>F 31 3</b>		10.846	1.575	0.750 <sup>+0</sup> / <sub>-0.0005</sub>	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	37
<b>F 31 4</b>		11.417	1.575	0.625 <sup>+0</sup> / <sub>-0.0004</sub>	0.705	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	36

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

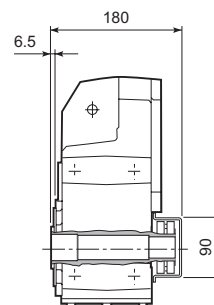
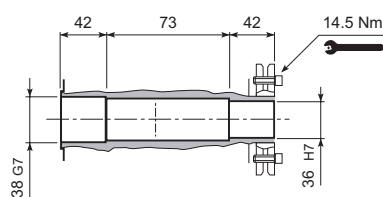


# F 31

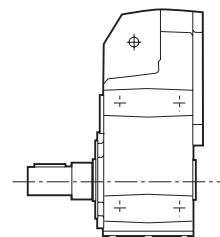
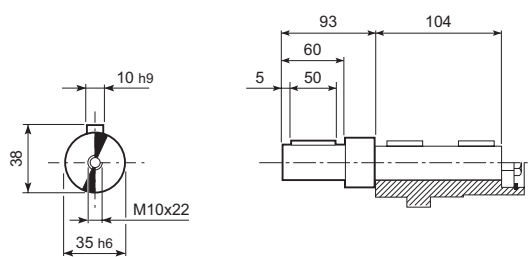
## F 31...H



## F 31...S

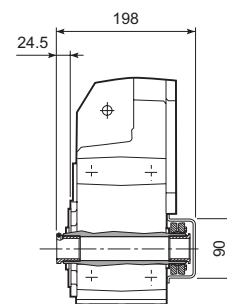
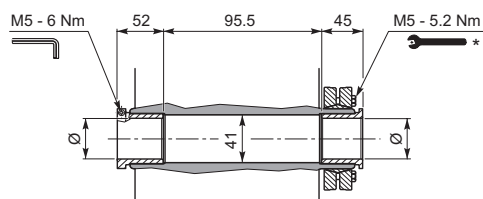


## F 31...R

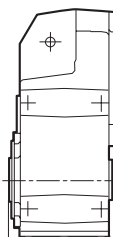
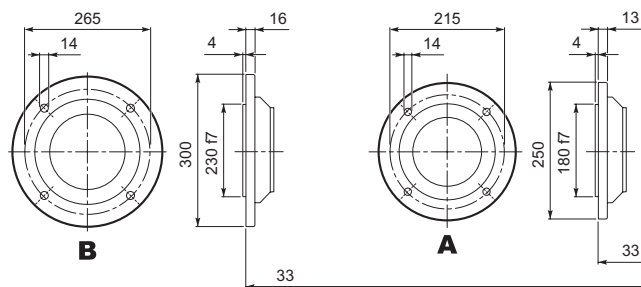


## F 31...QF

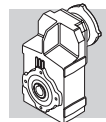
	Ø
QF35	35
QF40	40



## F 31...F...

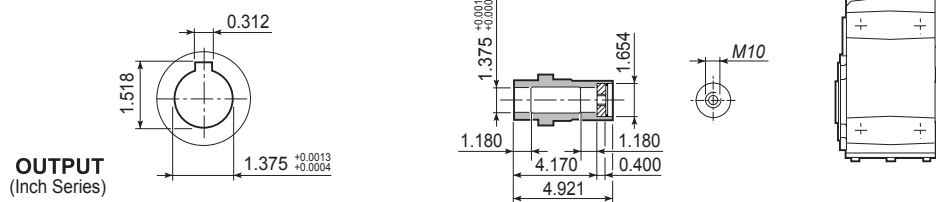


\* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

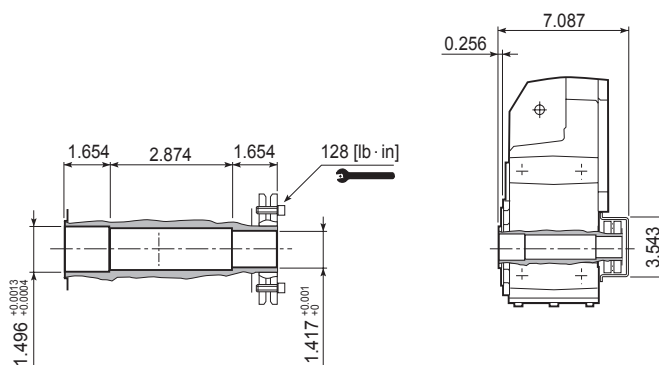


# F 31

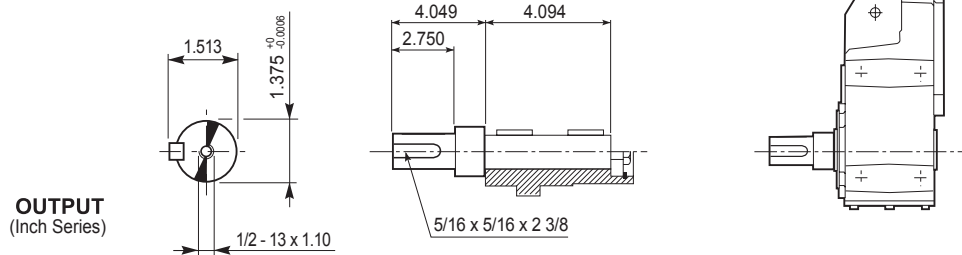
## F 31...NH



## F 31...S

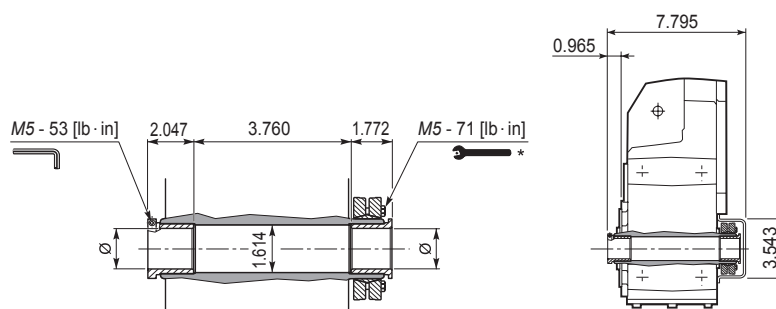


## F 31...NR

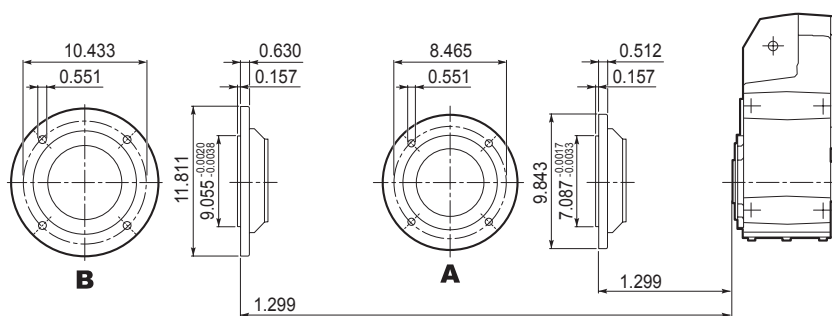


## F 31...NQF

	Ø
NQF1-3/8	1.375
NQF1-7/16	1.438

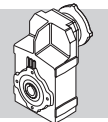


## F 31...F...

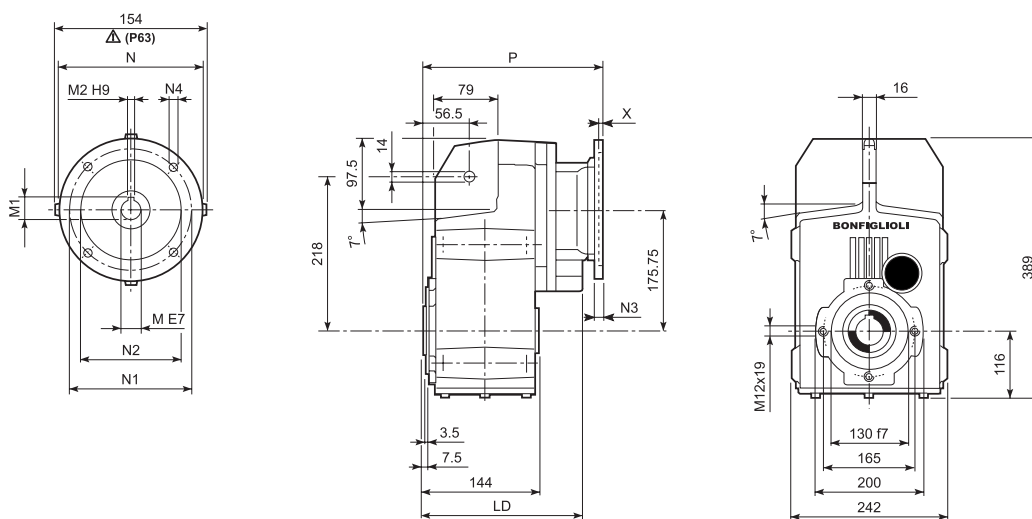


\* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.





## F 41...P(IEC)



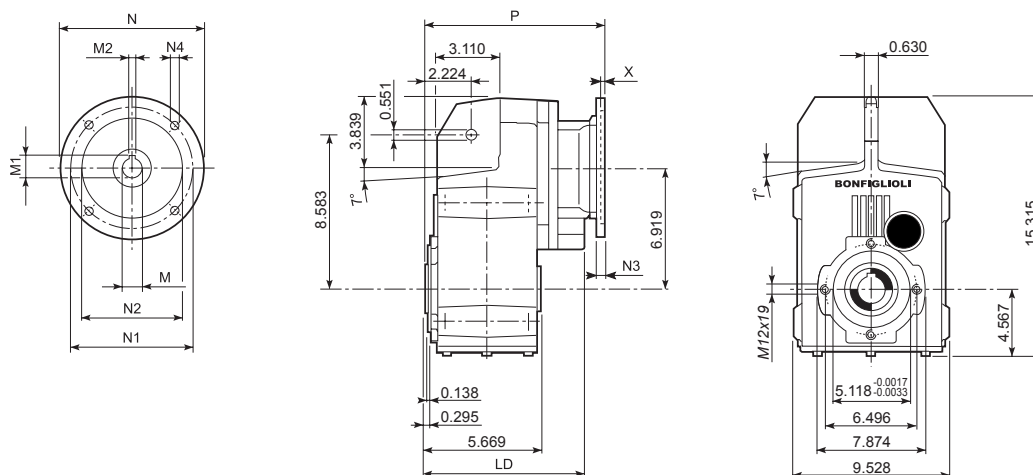
Dimensões em mm

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	kg
F 41 2/3	P63	215	11	12.8	4	140	115	95	—	M8x19	4	246	42
F 41 2/3	P71	215	14	16.3	5	160	130	110	—	M8x16	4.5	246	42
F 41 2/3	P80	231	19	21.8	6	200	165	130	—	M10x12	4	265.5	43
F 41 2/3	P90	231	24	27.3	8	200	165	130	—	M10x12	4	265.5	43
F 41 2/3	P100	231	28	31.3	8	250	215	180	—	M12x16	4.5	275.5	47
F 41 2/3	P112	231	28	31.3	8	250	215	180	—	M12x16	4.5	275.5	47
F 41 2/3	P132	—	38	41.3	10	300	265	230	16	14	5	312	50
F 41 4	P63	—	11	12.8	4	140	115	95	—	M8x19	4	307.5	44
F 41 4	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	307.5	44
F 41 4	P80	—	19	21.8	6	200	165	130	—	M10x12	4	327	45
F 41 4	P90	—	24	27.3	8	200	165	130	—	M10x12	4	327	45
F 41 4	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	337	49
F 41 4	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	337	49

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA



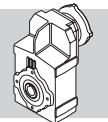
## F 41...N(NEMA Input)



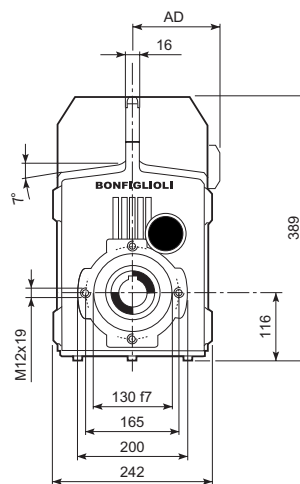
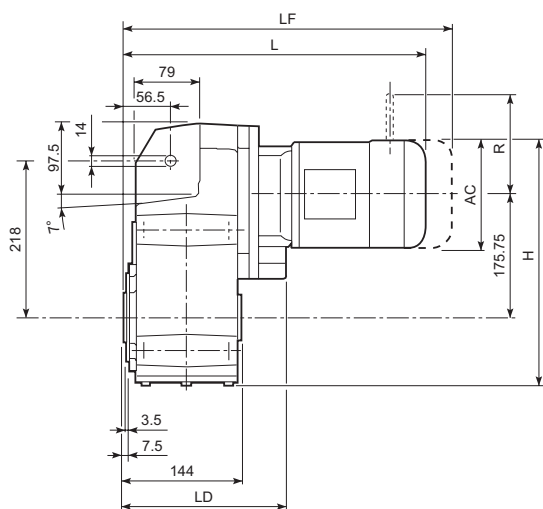
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
F 41 2/3	N56C	8.465	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	10.472	93
F 41 2/3	N140TC	8.465	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	10.472	95
F 41 2/3	N180TC	9.094	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0</sup> / <sub>+0.0014</sub>	8.996	7.250	8.500	0.630	0.551	0.217	11.220	104
F 41 2/3	N210TC	—	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+0</sup> / <sub>+0.0014</sub>	8.996	7.250	8.500	0.531	0.531	0.217	12.461	110
F 41 4	N56C	—	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	12.894	97
F 41 4	N140TC	—	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	12.894	99
F 41 4	N180TC	—	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0</sup> / <sub>+0.0014</sub>	8.996	7.250	8.500	0.630	0.551	0.217	13.720	108

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

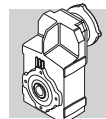


## F 41...M/ME

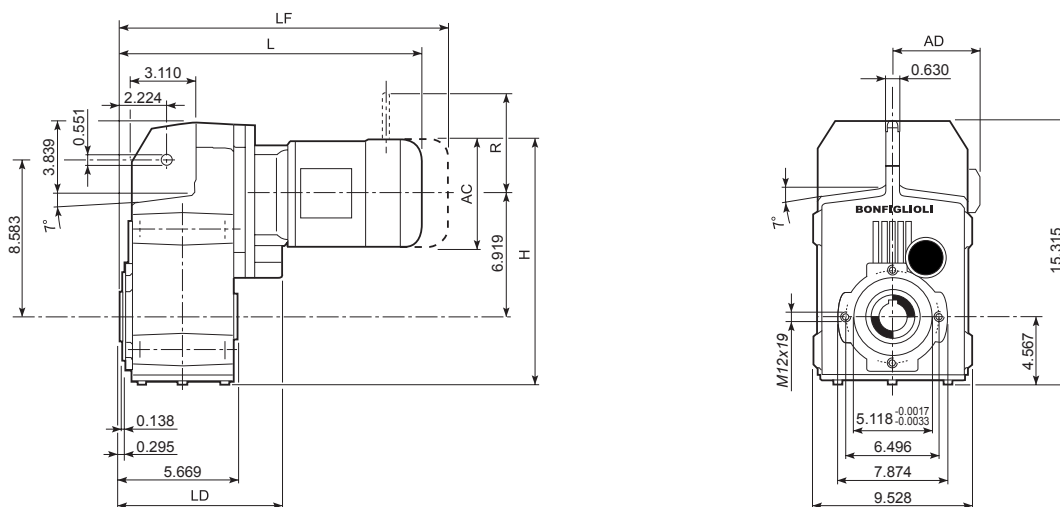


Dimensões em mm

										M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD		LF		R	AD	R	AD	
F 41 2/3	S1	M1	138	360.8	401	199.5	108	46	462	48	103	135	124	108	
F 41 2/3	S2	ME2S	156	369.8	430	215	119	49	—	—	—	—	—	—	
F 41 2/3	S3	ME3S	195	389.3	473	231	142	54	—	—	—	—	—	—	
F 41 2/3	S3	ME3L	195	389.3	505	231	142	64	—	—	—	—	—	—	
F 41 2/3	S4	ME4	258	420.8	613	—	193	96	—	—	—	—	—	—	
F 41 2/3	S4	ME4LB	258	420.8	648	—	193	104	—	—	—	—	—	—	
F 41 4	S05	M05	231	352.3	433.5	—	95	45	499.5	46	96	122	116	95	
F 41 4	S1	M1	138	360.8	462.5	—	108	47	523.5	49	103	135	124	108	
F 41 4	S2	ME2S	156	369.8	491.5	—	119	50	—	—	—	—	—	—	
F 41 4	S3	ME3S	195	389.3	534.5	—	142	55	—	—	—	—	—	—	
F 41 4	S3	ME3L	195	389.3	566.5	—	142	65	—	—	—	—	—	—	

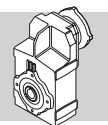


## F 41...M/ME

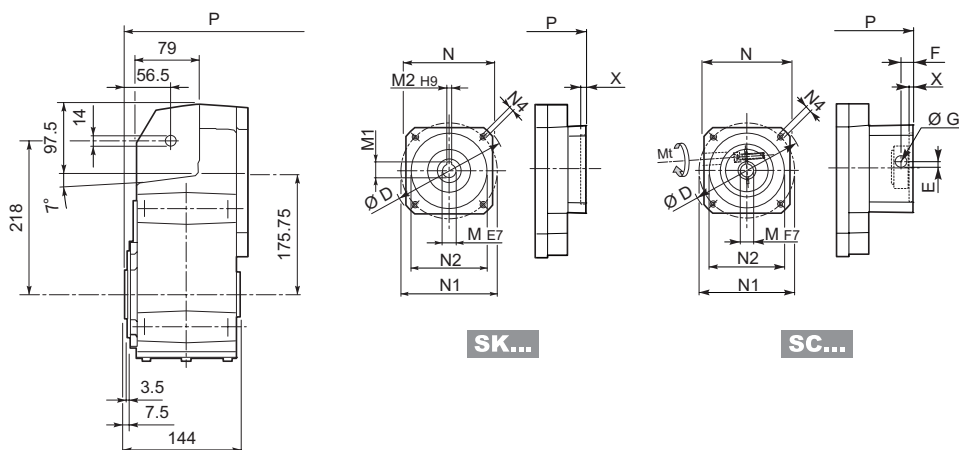


Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

										M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD		LF		R	AD	R	AD	
			5.433	14.205	15.787	7.854	4.252	101	18.189	106	4.055	5.315	4.882	4.252	
F 41 2/3	S2	ME2S	6.142	14.559	16.929	8.465	4.685	108	—	—	—	—	—	—	
F 41 2/3	S3	ME3S	7.677	15.327	18.622	9.094	5.591	119	—	—	—	—	—	—	
F 41 2/3	S3	ME3L	7.677	15.327	19.882	9.094	5.591	141	—	—	—	—	—	—	
F 41 2/3	S4	ME4	10.157	16.567	24.134	—	7.598	212	—	—	—	—	—	—	
F 41 2/3	S4	ME4LB	10.157	16.567	25.512	—	7.598	229	—	—	—	—	—	—	
F 41 4	S05	M05	9.094	13.870	17.067	—	3.740	99	19.665	101	3.780	4.803	4.567	3.740	
F 41 4	S1	M1	5.433	14.205	18.209	—	4.252	104	20.610	108	4.055	5.315	4.882	4.252	
F 41 4	S2	ME2S	6.142	14.559	19.350	—	4.685	110	—	—	—	—	—	—	
F 41 4	S3	ME3S	7.677	15.327	21.043	—	5.591	121	—	—	—	—	—	—	
F 41 4	S3	ME3L	7.677	15.327	22.303	—	5.591	143	—	—	—	—	—	—	



## F 41...SK / SC



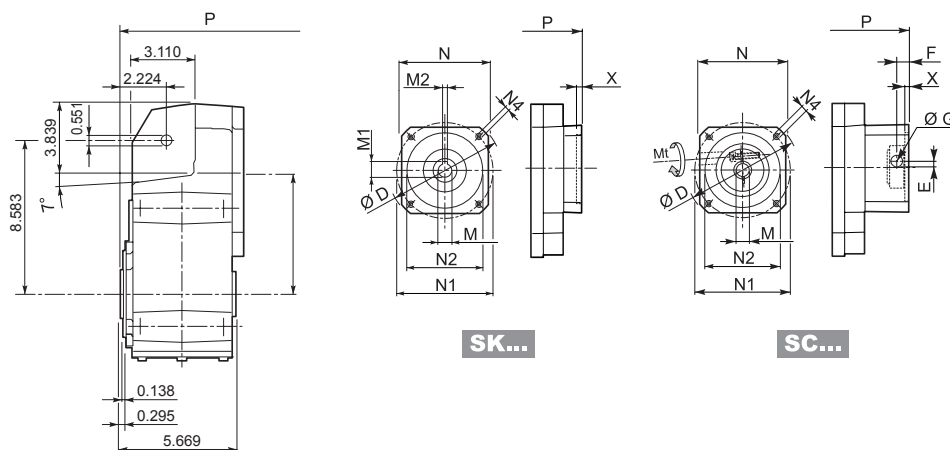
Dimensões em mm

		D	M	M1	M2	N	N1	N2	N4	X	2/3x		4x	
											P	Kg	P	Kg
F 41 4	SK 60A	102	11	12.8	4	82	75	60	M5x10	3.5	—	—	279	43
F 41 4	SK 60B	102	14	16.3	5	82	75	60	M5x10	4	—	—	286	44
F 41 4	SK 80A	115	14	16.3	5	90	100	80	M6x12	4	—	—	286	44
F 41 2/3	SK 80B	120	14	16.3	5	96	100	80	M6x12	4	265.5	43	—	—
F 41 2/3/4	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	265.5	43	327	45
F 41 2/3/4	SK 95A	130	14	16.3	5	102	115	95	M8x12	4	265.5	43	327	45
F 41 2/3/4	SK 95B	130	19	21.8	6	102	115	95	M8x12	4	265.5	43	327	45
F 41 2/3/4	SK 95C	130	24	27.3	8	102	115	95	M8x12	4	265.5	43	327	45
F 41 2/3/4	SK 110A	150	19	21.8	6	120	130	110	M8x12	5	265.5	43	327	45
F 41 2/3/4	SK 110B	150	24	27.3	8	120	130	110	M8x12	5	265.5	43	327	45
F 41 2/3	SK 130A	188	24	27.3	8	142	165	130	M10x20	5	265.5	45	—	—
F 41 2/3	SK 130B	189	32	35.3	10	160	165	130	M10x20	5	312	47	—	—
F 41 2/3	SK 180A	240	32	35.3	10	192	215	180	M12x19	5	312	47	—	—
F 41 2/3	SK 180B	240	38	41.3	10	192	215	180	M12x19	5	312	47	—	—

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	2/3x		4x	
													P	Kg	P	Kg
F 41 4	SC 60A	M6 15	102	7	12.5	12.5	11	82	75	60	M5x10	4	—	—	306	44
F 41 4	SC 60B	M6 15	102	7	12.5	12.5	14	82	75	60	M5x10	4	—	—	306	45
F 41 4	SC 80A	M6 15	115	6	12.5	12.5	14	90	100	80	M6x12	4	—	—	306	45
F 41 2/3	SC 80B	M6 15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	289	44	—	—
F 41 2/3/4	SC 80C	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	289	44	350.5	46
F 41 2/3/4	SC 95A	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	289	44	350.5	46
F 41 2/3/4	SC 95B	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	289	44	350.5	46
F 41 2/3/4	SC 95C	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	289	44	350.5	46
F 41 2/3/4	SC 110A	M6 15	150	16.5	16	17.75	19	120	130	110	M8x16	5	289	45	350.5	47
F 41 2/3/4	SC 110B	M6 15	150	16.5	16	17.75	24	120	130	110	M8x16	5	289	45	350.5	47
F 41 2/3	SC 130A	M6 15	188	19	16	17.75	24	142	165	130	M10x20	5	289	46	—	—
F 41 2/3	SC 130B	M8 36	189	20	17	17.75	32	160	165	130	M10x20	5	335	50	—	—
F 41 2/3	SC 180A	M8 36	240	20	17.5	17.75	32	192	215	180	M12x24	5	339	50	—	—
F 41 2/3	SC 180B	M8 36	240	20	17.5	17.75	38	192	215	180	M12x24	5	339	50	—	—



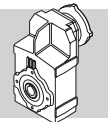
## F 41...SK / SC



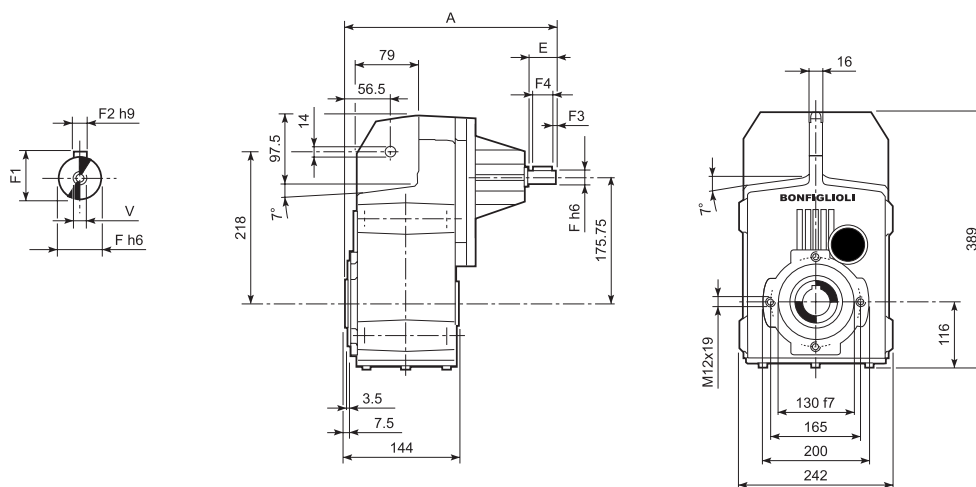
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		D	M	M1	M2	N	N1	N2	N4	X	2/3x		4x	
											P	lbs	P	lbs
	<b>SK 60A</b>	4.016	0.433 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.504	0.157 <sup>+0.0012</sup> / <sub>+0</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.138	—	—	10.984	95
	<b>SK 60B</b>	4.016	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.157	—	—	11.260	97
	<b>SK 80A</b>	4.528	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	3.543	3.937	3.150	<i>M6x12</i>	0.157	—	—	11.260	97
	<b>SK 80B</b>	4.724	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	10.453	95	—	—
	<b>SK 80C</b>	4.724	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	10.453	95	12.874	99
	<b>SK 95A</b>	5.118	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	10.453	95	12.874	99
	<b>SK 95B</b>	5.118	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	10.453	95	12.874	99
	<b>SK 95C</b>	5.118	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	10.453	95	12.874	99
	<b>SK 110A</b>	5.906	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	4.724	5.118	4.331	<i>M8x12</i>	0.197	10.453	95	12.874	99
	<b>SK 110B</b>	5.906	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	4.724	5.118	4.331	<i>M8x12</i>	0.197	10.453	95	12.874	99
	<b>SK 130A</b>	7.402	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	5.591	6.496	5.118	<i>M10x20</i>	0.197	10.453	99	—	—
	<b>SK 130B</b>	7.441	1.260 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.390	0.394 <sup>+0.0014</sup> / <sub>+0</sub>	6.299	6.496	5.118	<i>M10x20</i>	0.197	12.283	104	—	—
	<b>SK 180A</b>	9.449	1.260 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.390	0.394 <sup>+0.0014</sup> / <sub>+0</sub>	7.559	8.465	7.087	<i>M12x19</i>	0.197	12.283	104	—	—
	<b>SK 180B</b>	9.449	1.496 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.626	0.394 <sup>+0.0014</sup> / <sub>+0</sub>	7.559	8.465	7.087	<i>M12x19</i>	0.197	12.283	104	—	—

			Mt [lb • in]	D	E	F	G	M	N	N1	N2	N4	X	2/3x		4x	
														P	lbs	P	lbs
	<b>SC 60A</b>	<i>M6</i>	133	4.016	0.276	0.492	0.492	0.433 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.157	—	—	12.047	97
	<b>SC 60B</b>	<i>M6</i>	133	4.016	0.276	0.492	0.492	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.228	2.953	2.362	<i>M5x10</i>	0.157	—	—	12.047	99
	<b>SC 80A</b>	<i>M6</i>	133	4.528	0.236	0.492	0.492	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.543	3.937	3.150	<i>M6x12</i>	0.157	—	—	12.047	99
	<b>SC 80B</b>	<i>M6</i>	133	4.724	0.610	0.571	0.699	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	11.378	97	—	—
	<b>SC 80C</b>	<i>M6</i>	133	4.724	0.610	0.571	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	11.378	97	13.799	101
	<b>SC 95A</b>	<i>M6</i>	133	5.118	0.650	0.591	0.699	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	11.378	97	13.799	101
	<b>SC 95B</b>	<i>M6</i>	133	5.118	0.650	0.591	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	11.378	97	13.799	101
	<b>SC 95C</b>	<i>M6</i>	133	5.118	0.650	0.591	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	11.378	97	13.799	101
	<b>SC 110A</b>	<i>M6</i>	133	5.906	0.650	0.630	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	<i>M8x16</i>	0.197	11.378	99	13.799	104
	<b>SC 110B</b>	<i>M6</i>	133	5.906	0.650	0.630	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	<i>M8x16</i>	0.197	11.378	99	13.799	104
	<b>SC 130A</b>	<i>M6</i>	133	7.402	0.748	0.630	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	5.591	6.496	5.118	<i>M10x20</i>	0.197	11.378	101	—	—
	<b>SC 130B</b>	<i>M8</i>	319	7.441	0.787	0.669	0.699	1.260 <sup>+0.0020</sup> / <sub>+0.0010</sub>	6.299	6.496	5.118	<i>M10x20</i>	0.197	13.189	110	—	—
	<b>SC 180A</b>	<i>M8</i>	319	9.449	0.787	0.689	0.699	1.260 <sup>+0.0020</sup> / <sub>+0.0010</sub>	7.559	8.465	7.087	<i>M12x24</i>	0.197	13.346	110	—	—
	<b>SC 180B</b>	<i>M8</i>	319	9.449	0.787	0.689	0.699	1.496 <sup>+0.0020</sup> / <sub>+0.0010</sub>	7.559	8.465	7.087	<i>M12x24</i>	0.197	13.346	110	—	—



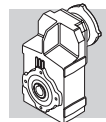
## F 41...HS



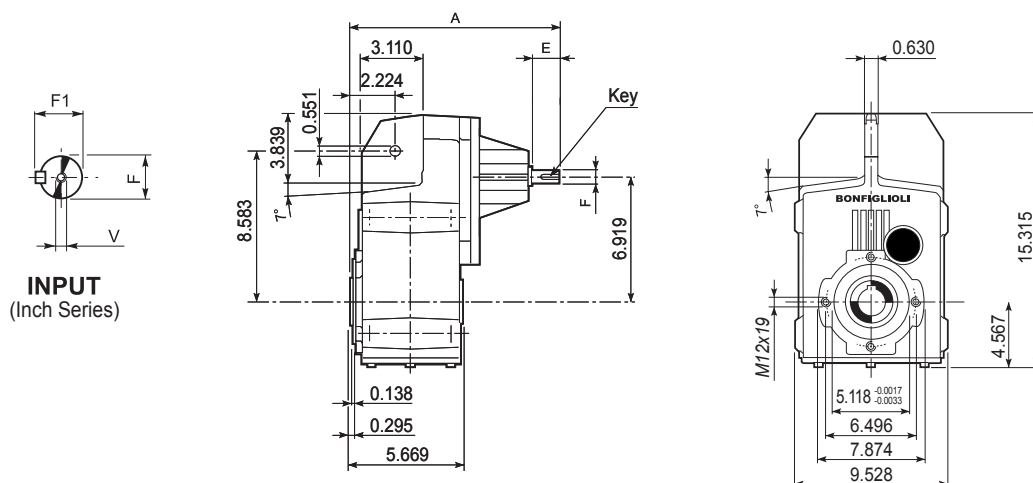
Dimensões em mm

		A	E	F	F1	F2	F3	F4	V	Kg
	HS	335.5	50	24	27	8	2.5	45	M8x19	44.9
F 41 2		335.5	50	24	27	8	2.5	45	M8x19	46.4
F 41 3		357.5	40	19	21.5	6	2.5	35	M6x16	43.5




Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS



## F 41...NHS

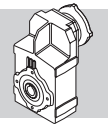


Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		A	E	F	F1	V	Key	
<b>F 41 2</b>	<b>NHS</b>	13.209	1.969	1.000 <sup>+0</sup> <sub>-0.0005</sub>	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	99
<b>F 41 3</b>		13.209	1.969	1.000 <sup>+0</sup> <sub>-0.0005</sub>	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	102
<b>F 41 4</b>		14.075	1.575	0.750 <sup>+0</sup> <sub>-0.0005</sub>	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	96

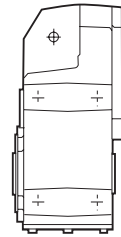
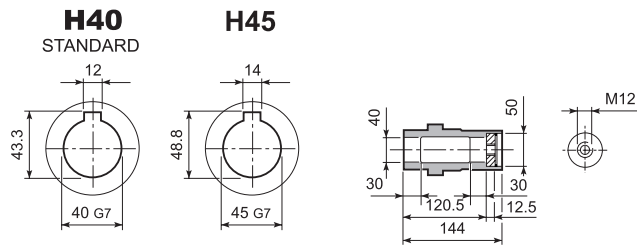
Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS



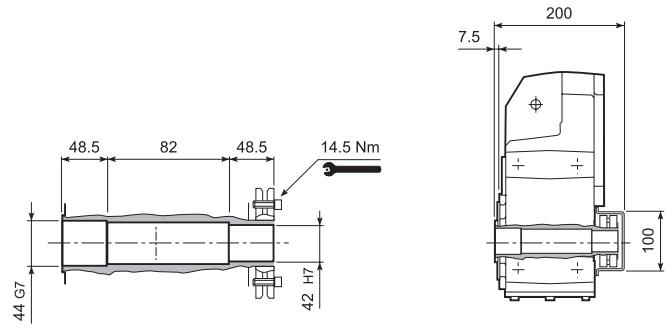


# F 41

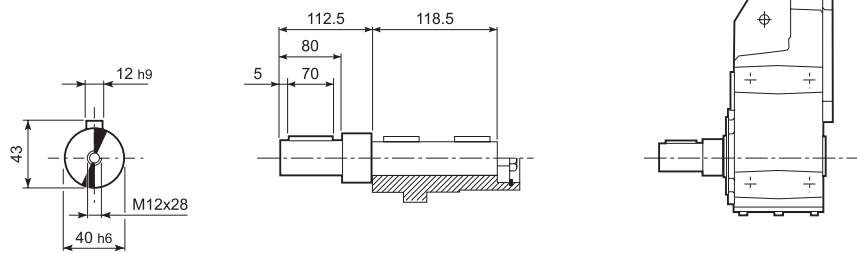
## F 41...H



## F 41...S



## F 41...R

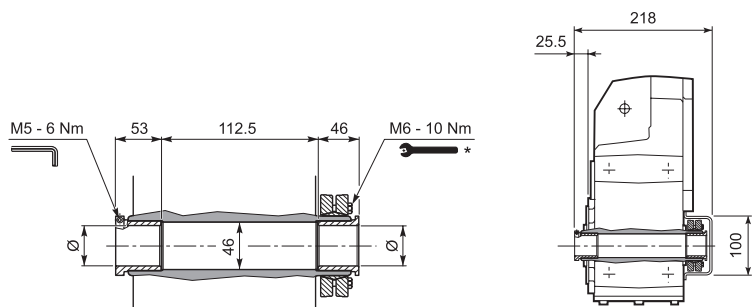


## F 41...QF

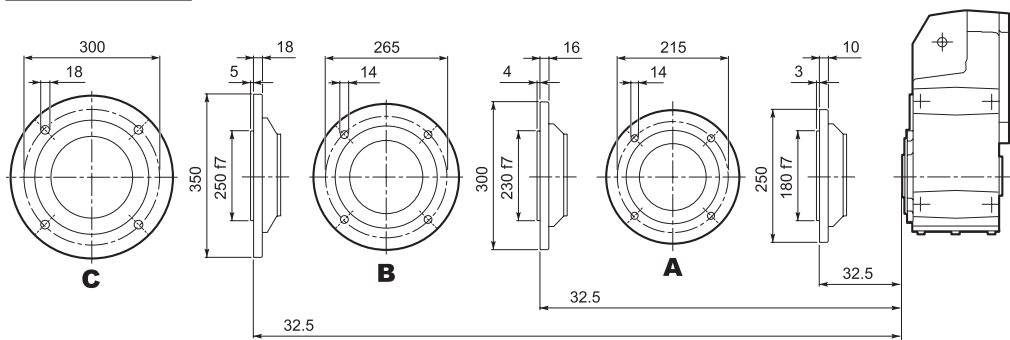
	Ø
QF42	42
QF45	45



	M <sub>n2</sub> max [Nm]
F 41 QF42	850
F 41 QF45	1000



## F 41...F...

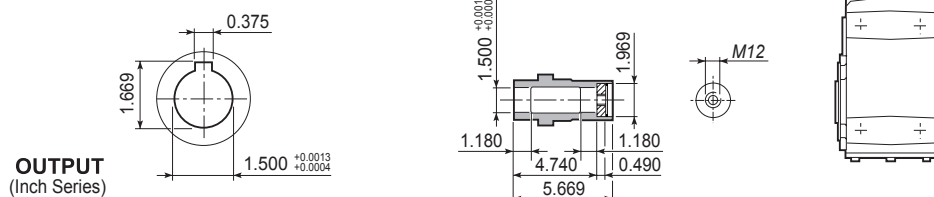


\* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

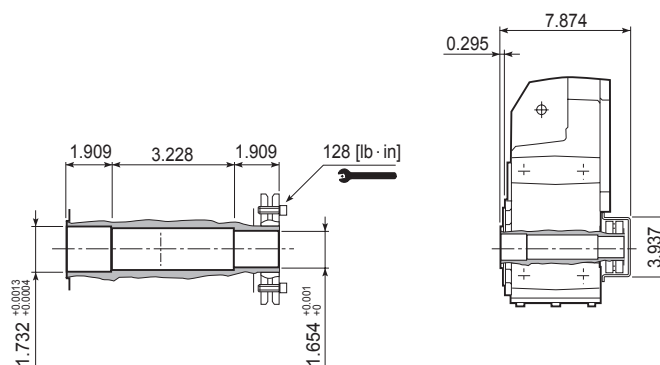


# F 41

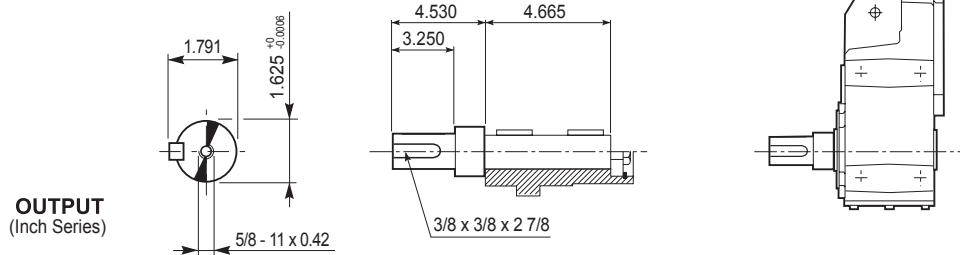
## F 41...NH



## F 41...S



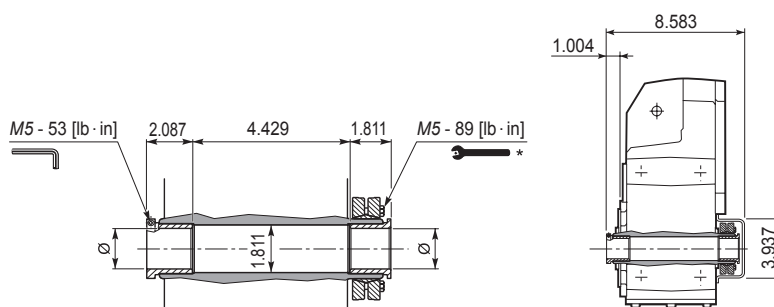
## F 41...NR



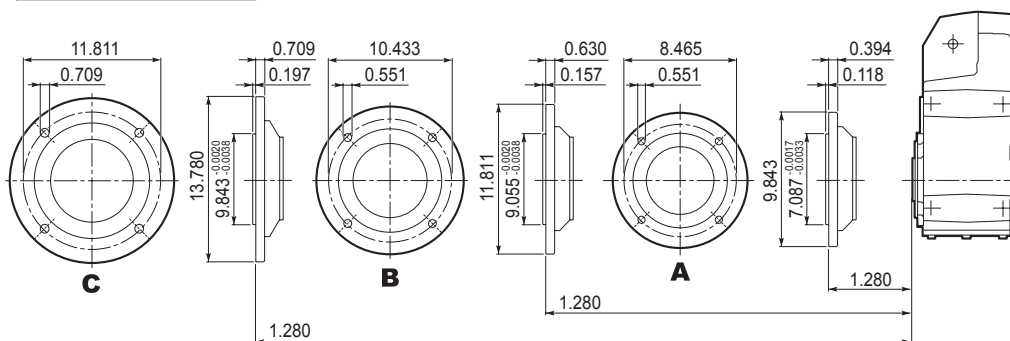
## F 41...NQF

	∅
NQF1-5/8	1.625
NQF1-3/4	1.750

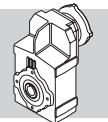
	M <sub>n2</sub> max [Nm]
F 41 NQF1-5/8	850
F 41 NQF1-3/4	1000



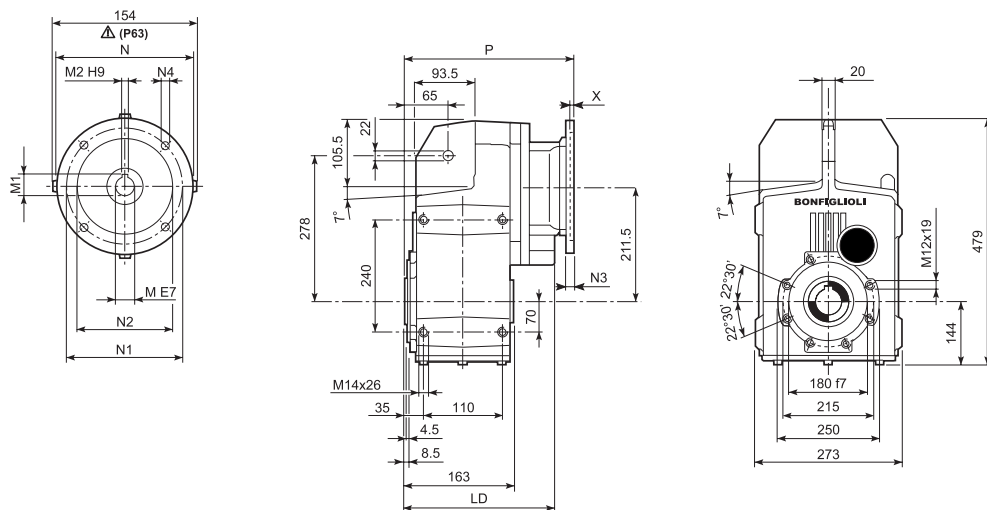
## F 41...F...






\* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.



## F 51...P(IEC)



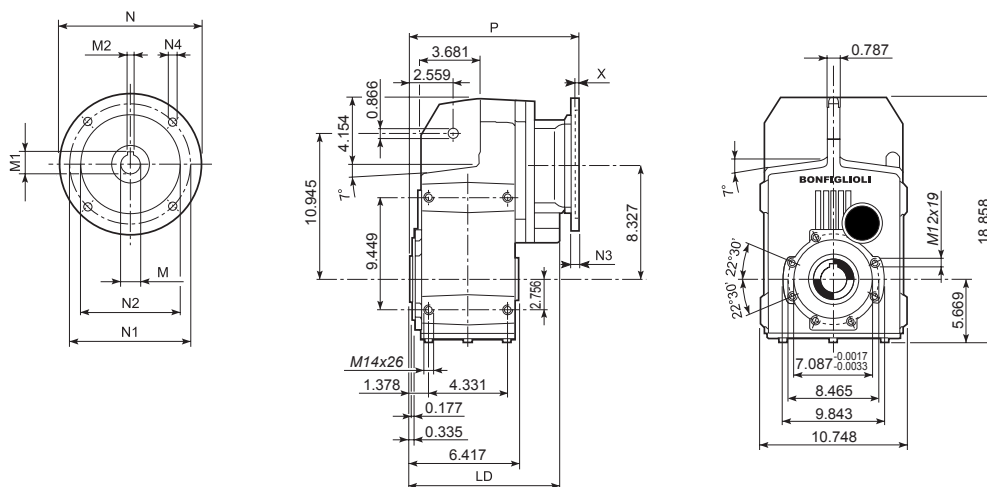
Dimensões em mm

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	
													
F 51 2/3	P63	238	11	12.8	4	140	115	95	—	M8x19	4	268	65
F 51 2/3	P71	238	14	16.3	5	160	130	110	—	M8x16	4.5	268	65
F 51 2/3	P80	253	19	21.8	6	200	165	130	—	M10x12	4	287.5	67
F 51 2/3	P90	253	24	27.3	8	200	165	130	—	M10x12	4	287.5	67
F 51 2/3	P100	238	28	31.3	8	250	215	180	—	M12x16	4.5	297.5	71
F 51 2/3	P112	238	28	31.3	8	250	215	180	—	M12x16	4.5	297.5	71
F 51 2/3	P132	238	38	41.3	10	300	265	230	16	14	5	334	74
F 51 2/3	P160	—	42	45.3	12	350	300	250	23	18	5.5	384.5	78
F 51 2/3	P180	—	48	51.8	14	350	300	250	23	18	5.5	384.5	78
F 51 4	P63	—	11	12.8	4	140	115	95	—	M8x19	4	339.5	70
F 51 4	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	339.5	70
F 51 4	P80	—	19	21.8	6	200	165	130	—	M10x12	4	359	71
F 51 4	P90	—	24	27.3	8	200	165	130	—	M10x12	4	359	71
F 51 4	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	369	75
F 51 4	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	369	75

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA



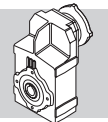
## F 51...N(NEMA Input)



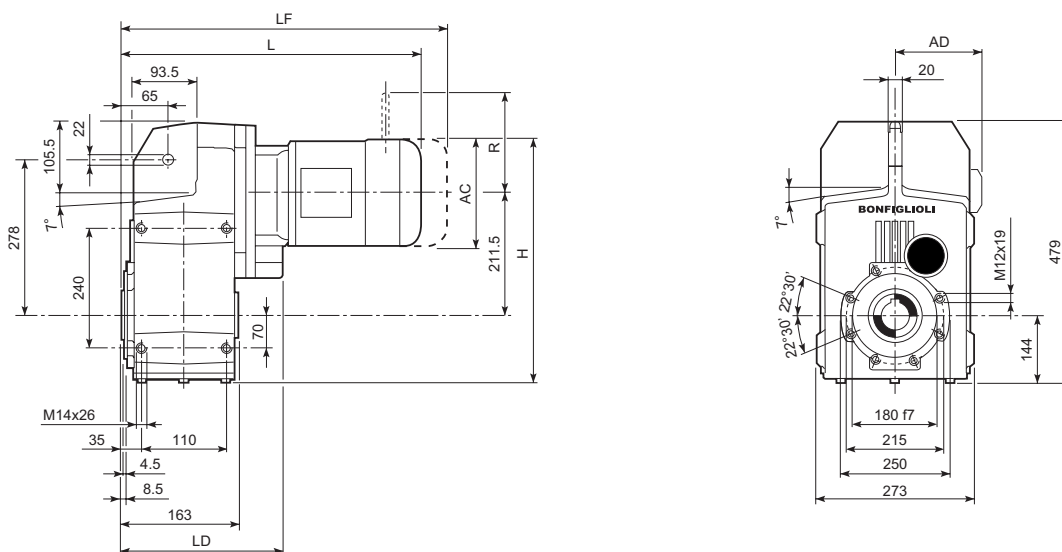
Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	
F 51 2/3	N56C	9.370	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	11.339	143
F 51 2/3	N140TC	9.370	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	11.339	148
F 51 2/3	N180TC	9.961	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0</sup> / <sub>+0.0014</sub>	8.996	7.250	8.500	0.630	0.551	0.217	12.087	157
F 51 2/3	N210TC	9.370	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+0</sup> / <sub>+0.0014</sub>	8.996	7.250	8.500	0.531	0.531	0.217	13.327	163
F 51 2/3	N250TC	—	1.625 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.796	0.375 <sup>+0</sup> / <sub>+0.0014</sub>	13.780	7.250	8.500	—	0.551	0.217	16.122	202
F 51 2/3	N280TC	—	1.875 <sup>+0.0030</sup> / <sub>+0.0020</sub>	2.102	0.500 <sup>+0</sup> / <sub>+0.0017</sub>	13.740	10.500	9.000	—	0.551	0.217	16.319	205
F 51 4	N56C	—	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	14.154	154
F 51 4	N140TC	—	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	14.154	157
F 51 4	N180TC	—	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0</sup> / <sub>+0.0014</sub>	8.996	7.250	8.500	0.630	0.551	0.217	14.980	165

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC



## F 51...M/ME

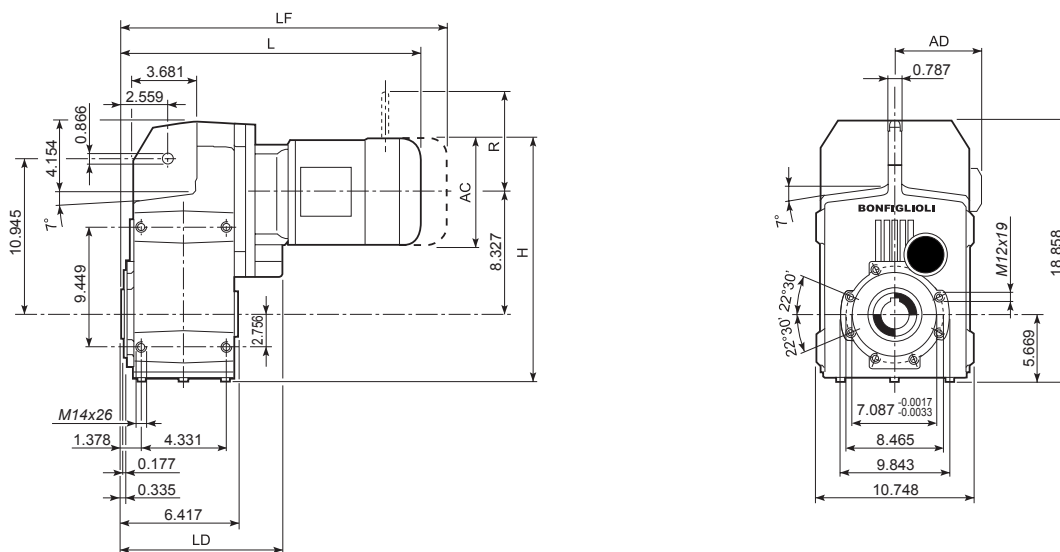


Dimensões em mm

										M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD		LF		R	AD	R	AD	
F 51 2/3	S1	M1	138	424	423	—	108	73	484	76	103	135	124	108	
F 51 2/3	S2	ME2S	156	433	452	238	119	73	—	—	—	—	—	—	
F 51 2/3	S3	ME3S	195	452.5	495	253	142	77	—	—	—	—	—	—	
F 51 2/3	S3	ME3L	195	452.5	527	253	142	87	—	—	—	—	—	—	
F 51 2/3	S4	ME4	258	484	635	238	193	119	—	—	—	—	—	—	
F 51 2/3	S4	ME4LB	258	484	670	238	193	127	—	—	—	—	—	—	
F 51 2/3	S5	ME5S	310	510	721.5	—	245	153	—	—	—	—	—	—	
F 51 2/3	S5	ME5L	310	510	765.5	—	245	169	—	—	—	—	—	—	
F 51 4	S1	M1	138	424	494.5	—	108	75	555.5	78	103	135	124	108	
F 51 4	S2	ME2S	156	433	523.5	—	119	79	—	—	—	—	—	—	
F 51 4	S3	ME3S	195	452.5	566.5	—	142	84	—	—	—	—	—	—	
F 51 4	S3	ME3L	195	452.5	598.5	—	142	93	—	—	—	—	—	—	

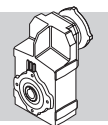


## F 51...M/ME

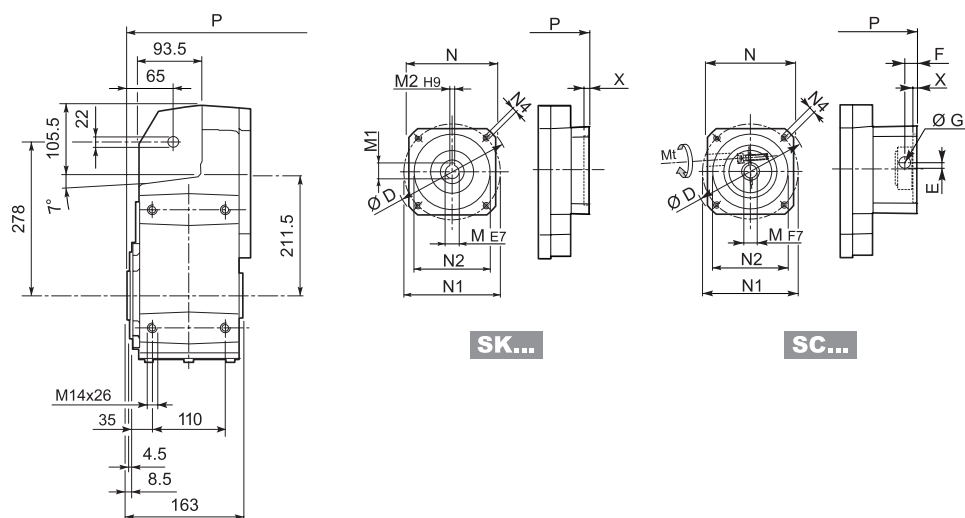


Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

										M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD		LF		R	AD	R	AD	
F 51 2/3	S1	M1	5.433	16.693	16.654	—	4.252	161	19.055	168	4.055	5.315	4.882	4.252	
F 51 2/3	S2	ME2S	6.142	17.047	17.795	9.370	4.685	161	—	—	—	—	—	—	
F 51 2/3	S3	ME3S	7.677	17.815	19.488	9.961	5.591	170	—	—	—	—	—	—	
F 51 2/3	S3	ME3L	7.677	17.815	20.748	9.961	5.591	192	—	—	—	—	—	—	
F 51 2/3	S4	ME4	10.157	19.055	25.000	9.370	7.598	262	—	—	—	—	—	—	
F 51 2/3	S4	ME4LB	10.157	19.055	26.378	9.370	7.598	280	—	—	—	—	—	—	
F 51 2/3	S5	ME5S	12.205	20.079	28.406	—	9.646	337	—	—	—	—	—	—	
F 51 2/3	S5	ME5L	12.205	20.079	30.138	—	9.646	373	—	—	—	—	—	—	
F 51 4	S1	M1	5.433	16.693	19.469	—	4.252	165	21.870	172	4.055	5.315	4.882	4.252	
F 51 4	S2	ME2S	6.142	17.047	20.610	—	4.685	174	—	—	—	—	—	—	
F 51 4	S3	ME3S	7.677	17.815	22.303	—	5.591	185	—	—	—	—	—	—	
F 51 4	S3	ME3L	7.677	17.815	23.563	—	5.591	205	—	—	—	—	—	—	



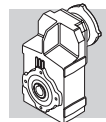
## F 51...SK / SC



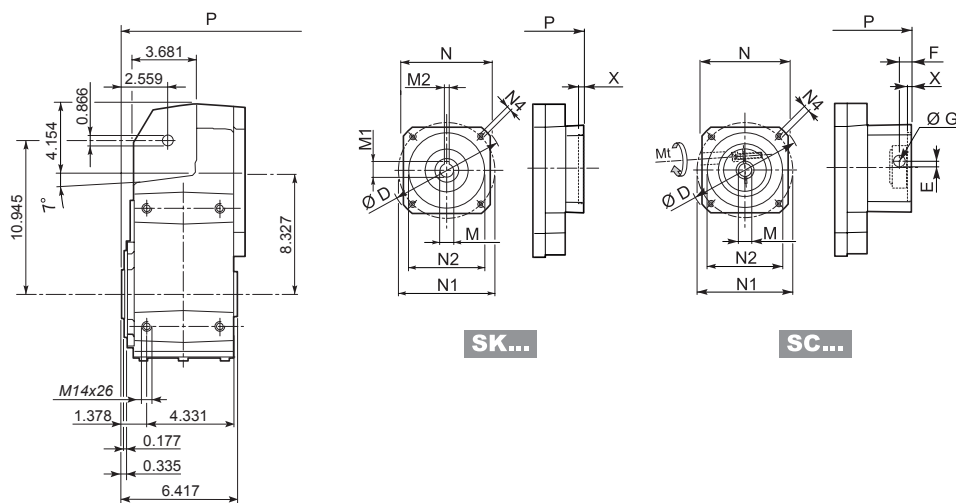
Dimensões em mm

		D	M	M1	M2	N	N1	N2	N4	X	2/3x		4x	
											P	Kg	P	Kg
F 51 2/3	SK 80B	120	14	16.3	5	96	100	80	M6x12	4	287.5	67	—	—
F 51 2/3/4	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	287.5	67	359	71
F 51 2/3/4	SK 95A	130	14	16.3	5	102	115	95	M8x12	4	287.5	67	359	71
F 51 2/3/4	SK 95B	130	19	21.8	6	102	115	95	M8x12	4	287.5	67	359	71
F 51 2/3/4	SK 95C	130	24	27.3	8	102	115	95	M8x12	4	287.5	67	359	71
F 51 2/3/4	SK 110A	150	19	21.8	6	120	130	110	M8x12	5	287.5	67	359	71
F 51 2/3/4	SK 110B	150	24	27.3	8	120	130	110	M8x12	5	287.5	67	359	71
F 51 2/3/4	SK 130A	188	24	27.3	8	142	165	130	M10x20	5	287.5	69	359	73
F 51 2/3	SK 130B	189	32	35.3	10	160	165	130	M10x20	5	334	75	—	—
F 51 2/3	SK 180A	240	32	35.3	10	192	215	180	M12x19	5	334	75	—	—
F 51 2/3	SK 180B	240	38	41.3	10	192	215	180	M12x19	5	334	75	—	—

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	2/3x		4x	
														P	Kg	P	Kg
F 51 2/3	SC 80B	M6	15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	311	70	—	—
F 51 2/3/4	SC 80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	311	70	382.5	74
F 51 2/3/4	SC 95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	311	70	382.5	74
F 51 2/3/4	SC 95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	311	70	382.5	74
F 51 2/3/4	SC 95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	311	70	382.5	74
F 51 2/3/4	SC 110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	311	71	382.5	75
F 51 2/3/4	SC 110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	311	71	382.5	75
F 51 2/3/4	SC 130A	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	311	72	382.5	76
F 51 2/3	SC 130B	M8	36	189	20	17	17.75	32	160	165	130	M10x20	5	357	75	—	—
F 51 2/3	SC 180A	M8	36	240	20	17.5	17.75	32	192	215	180	M12x24	5	361	75	—	—
F 51 2/3	SC 180B	M8	36	240	20	17.5	17.75	38	192	215	180	M12x24	5	361	75	—	—



## F 51...SK / SC

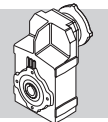


Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

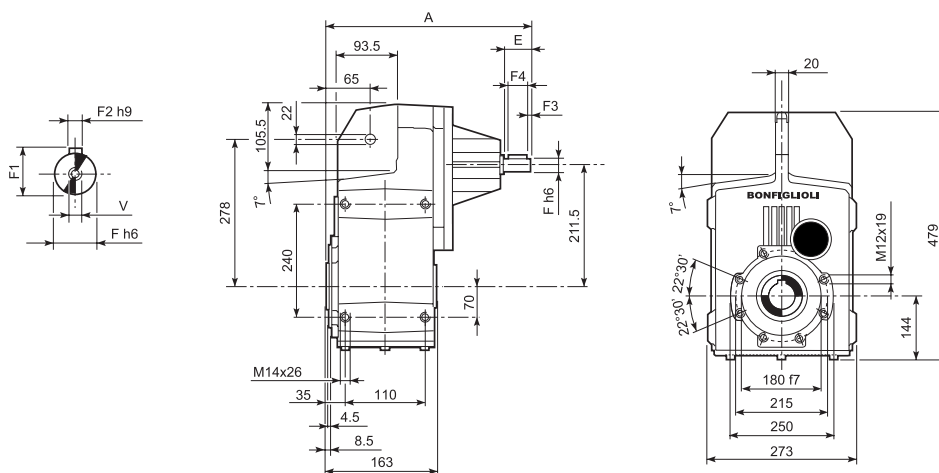
		D	M	M1	M2	N	N1	N2	N4	X	P	2/3x		4x	
												P	lbs	P	lbs
	<b>SK 80B</b>	4.724	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	11.319	148	—	—	
	<b>SK 80C</b>	4.724	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	11.319	148	14.134	157	
	<b>SK 95A</b>	5.118	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	11.319	148	14.134	157	
	<b>SK 95B</b>	5.118	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	11.319	148	14.134	157	
	<b>SK 95C</b>	5.118	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	11.319	148	14.134	157	
	<b>SK 110A</b>	5.906	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	4.724	5.118	4.331	<i>M8x12</i>	0.197	11.319	148	14.134	157	
	<b>SK 110B</b>	5.906	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	4.724	5.118	4.331	<i>M8x12</i>	0.197	11.319	148	14.134	157	
	<b>SK 130A</b>	7.402	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	5.591	6.496	5.118	<i>M10x20</i>	0.197	11.319	152	14.134	161	
	<b>SK 130B</b>	7.441	1.260 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.390	0.394 <sup>+0.0014</sup> / <sub>+0</sub>	6.299	6.496	5.118	<i>M10x20</i>	0.197	13.150	165	—	—	
	<b>SK 180A</b>	9.449	1.260 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.390	0.394 <sup>+0.0014</sup> / <sub>+0</sub>	7.559	8.465	7.087	<i>M12x19</i>	0.197	13.150	165	—	—	
	<b>SK 180B</b>	9.449	1.496 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.626	0.394 <sup>+0.0014</sup> / <sub>+0</sub>	7.559	8.465	7.087	<i>M12x19</i>	0.197	13.150	165	—	—	

			Mt [lb • in]	D	E	F	G	M	N	N1	N2	N4	X	2/3x		4x	
														P	lbs	P	lbs
	<b>SC 80B</b>	<i>M6</i>	133	4.724	0.610	0.571	0.699	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	12.244	154	—	—
	<b>SC 80C</b>	<i>M6</i>	133	4.724	0.610	0.571	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	12.244	154	15.059	163
	<b>SC 95A</b>	<i>M6</i>	133	5.118	0.650	0.591	0.699	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	12.244	154	15.059	163
	<b>SC 95B</b>	<i>M6</i>	133	5.118	0.650	0.591	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	12.244	154	15.059	163
	<b>SC 95C</b>	<i>M6</i>	133	5.118	0.650	0.591	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	12.244	154	15.059	163
	<b>SC 110A</b>	<i>M6</i>	133	5.906	0.650	0.630	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	<i>M8x16</i>	0.197	12.244	157	15.059	165
	<b>SC 110B</b>	<i>M6</i>	133	5.906	0.650	0.630	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	<i>M8x16</i>	0.197	12.244	157	15.059	165
	<b>SC 130A</b>	<i>M6</i>	133	7.402	0.748	0.630	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	5.591	6.496	5.118	<i>M10x20</i>	0.197	12.244	159	15.059	168
	<b>SC 130B</b>	<i>M8</i>	319	7.441	0.787	0.669	0.699	1.260 <sup>+0.0020</sup> / <sub>+0.0010</sub>	6.299	6.496	5.118	<i>M10x20</i>	0.197	14.055	165	—	—
	<b>SC 180A</b>	<i>M8</i>	319	9.449	0.787	0.689	0.699	1.260 <sup>+0.0020</sup> / <sub>+0.0010</sub>	7.559	8.465	7.087	<i>M12x24</i>	0.197	14.213	165	—	—
	<b>SC 180B</b>	<i>M8</i>	319	9.449	0.787	0.689	0.699	1.496 <sup>+0.0020</sup> / <sub>+0.0010</sub>	7.559	8.465	7.087	<i>M12x24</i>	0.197	14.213	165	—	—





## F 51...HS



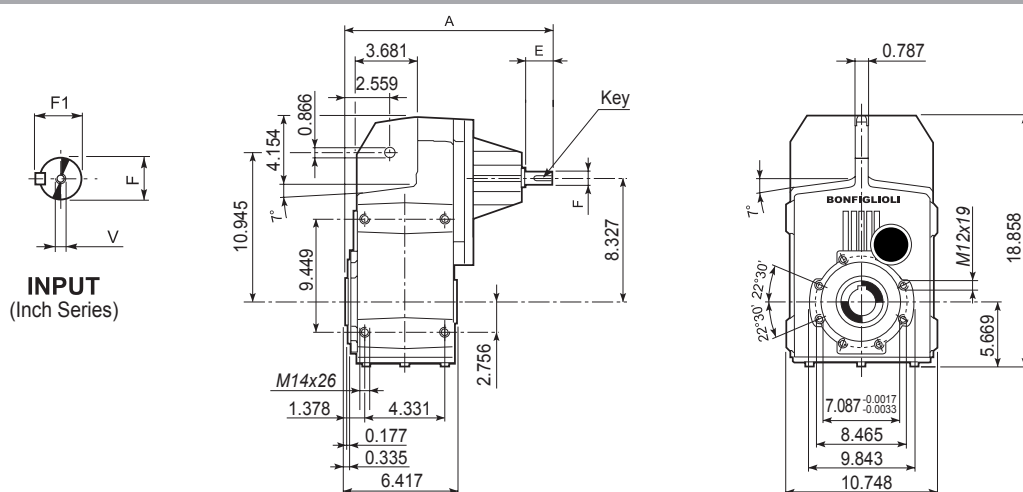
Dimensões em mm

		A	E	F	F1	F2	F3	F4	V	Kg	
	HS	F 51 2	357.5	50	24	27	8	2.5	45	M8x19	65
F 51 3		357.5	50	24	27	8	2.5	45	M8x19	68	
F 51 4		389.5	40	19	21.5	6	2.5	35	M6x16	70	




Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS



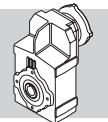
## F 51...NHS



Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

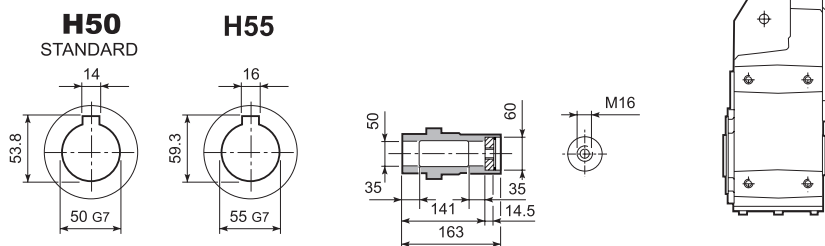
		A	E	F	F1	V	Key	
<b>F 51 2</b>	<b>NHS</b>	14.075	1.969	1.000 <sup>+0</sup> <sub>-0.0005</sub>	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	143
<b>F 51 3</b>		14.075	1.969	1.000 <sup>+0</sup> <sub>-0.0005</sub>	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	150
<b>F 51 4</b>		15.335	1.575	0.750 <sup>+0</sup> <sub>-0.0005</sub>	0.832	1/4 - 20 UNC	3/16 x 3/16 x 1 3/8	154

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

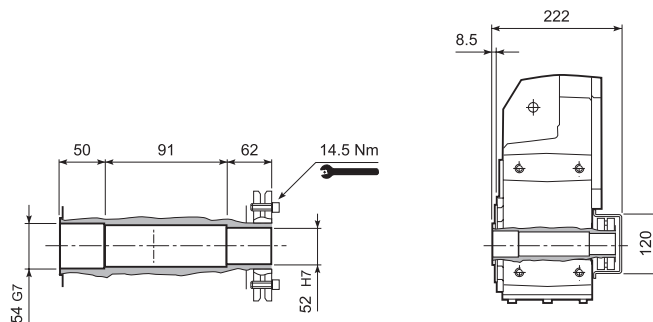


# F 51

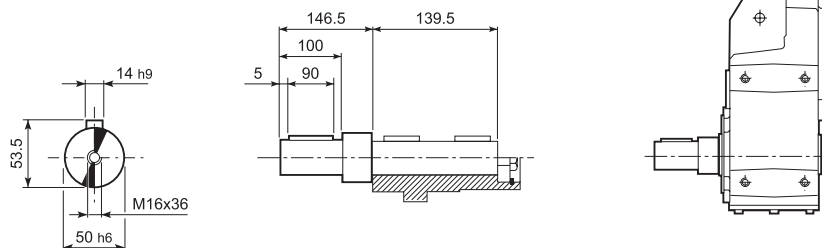
## F 51...H



## F 51...S



## F 51...R

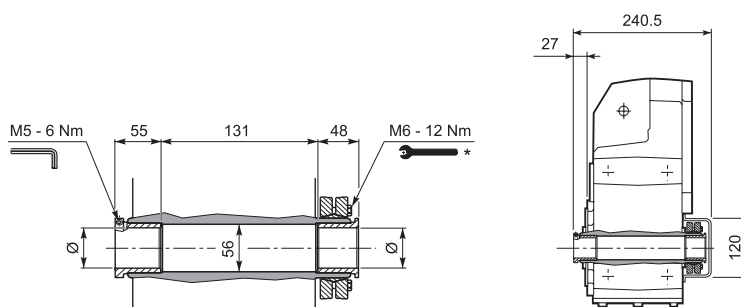


## F 51...QF

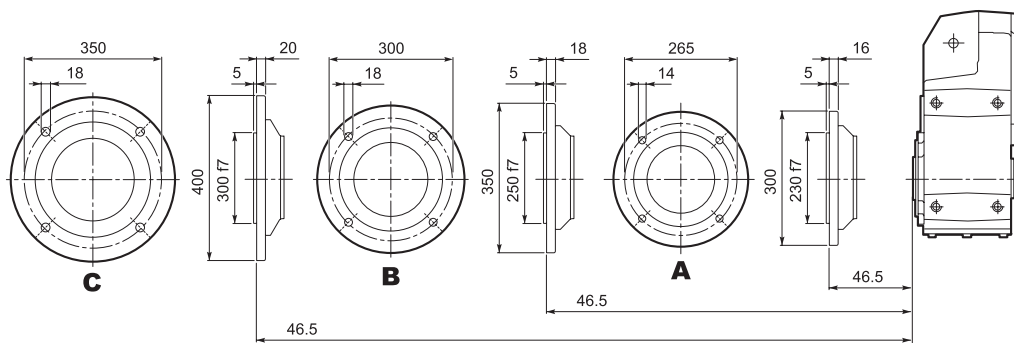
	Ø
QF50	50
QF55	55



	M <sub>n2</sub> max [Nm]
F 51 QF50	1750



## F 51...F...

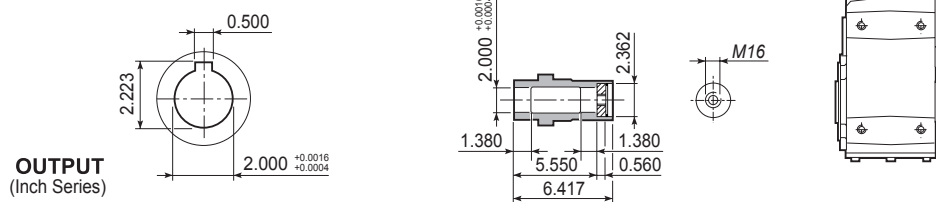


\* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

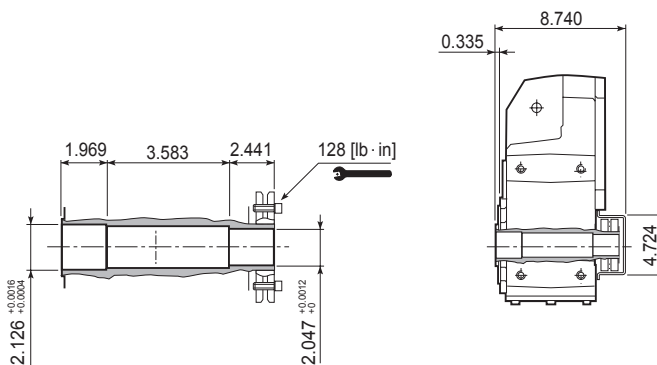


# F 51

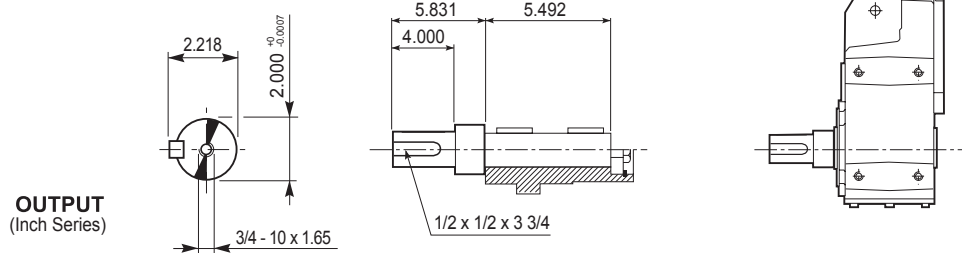
## F 51...NH



## F 51...S

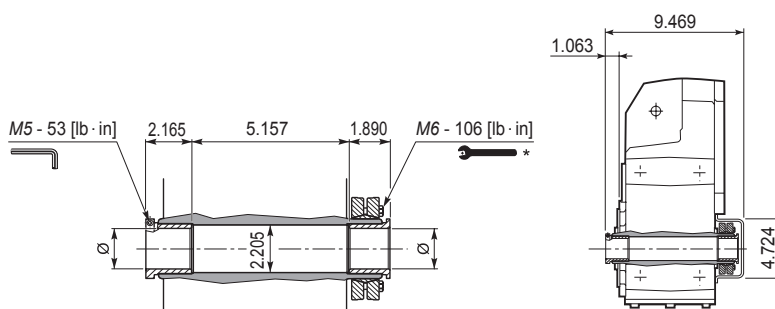


## F 51...NR



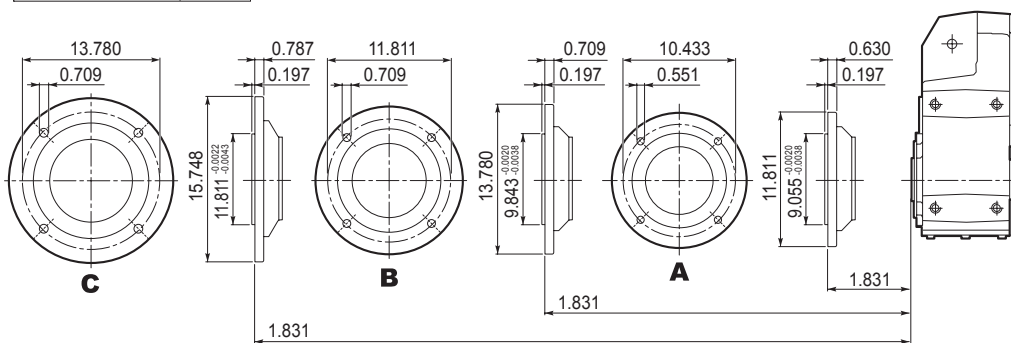
## F 51...NQF

	Ø
NQF1-15/16	1.938
NQF2	2.000

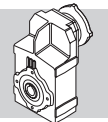


M <sub>n2</sub> max [Nm]	
F 51 NQF1-15/16	1750
F 51 NQF2	

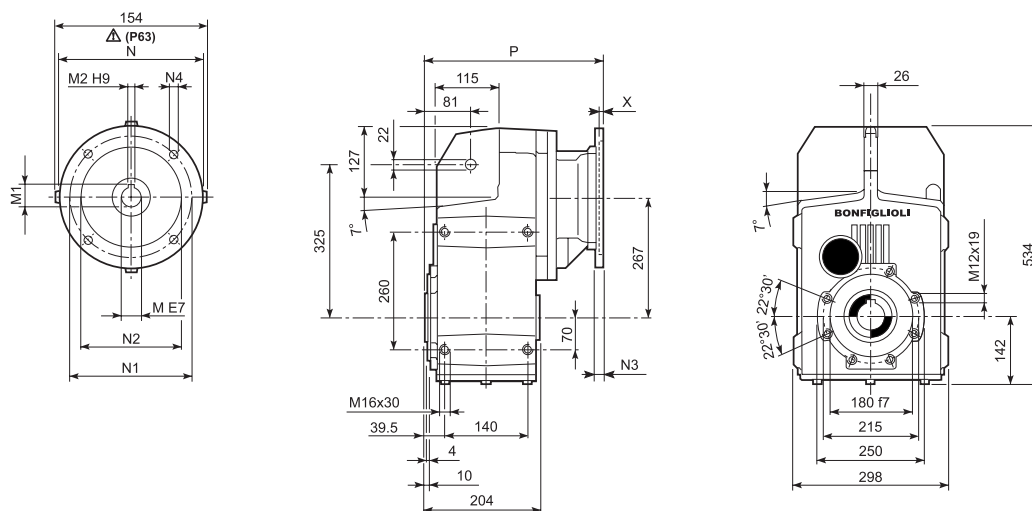
## F 51...F...



\* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.



## F 60...P(IEC)



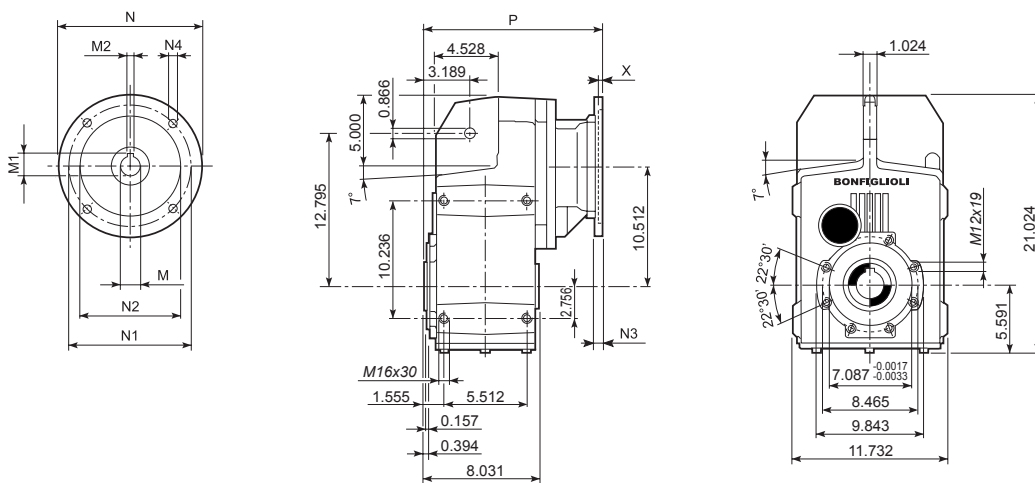
Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	kg
F 60 3	P63	11	12.8	4	140	115	95	—	M8x19	4	302.5	103
F 60 3	P71	14	16.3	5	160	130	110	—	M8x16	4.5	302.5	103
F 60 3	P80	19	21.8	6	200	165	130	—	M10x12	4	322	104
F 60 3	P90	24	27.3	8	200	165	130	—	M10x12	4	322	104
F 60 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	331	108
F 60 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	331	108
F 60 3	P132	38	41.3	10	300	265	230	16	14	5	367.5	111
F 60 3	P160	42	45.3	12	350	300	250	23	18	5.5	419	116
F 60 3	P180	48	51.8	14	350	300	250	23	18	5.5	419	116
F 60 4	P63	11	12.8	4	140	115	95	—	M8x19	4	373	108
F 60 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	373	108
F 60 4	P80	19	21.8	6	200	165	130	—	M10x12	4	392.5	110
F 60 4	P90	24	27.3	8	200	165	130	—	M10x12	4	392.5	110
F 60 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	402.5	114
F 60 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	402.5	114

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA



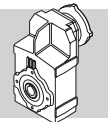
## F 60...N(NEMA Input)



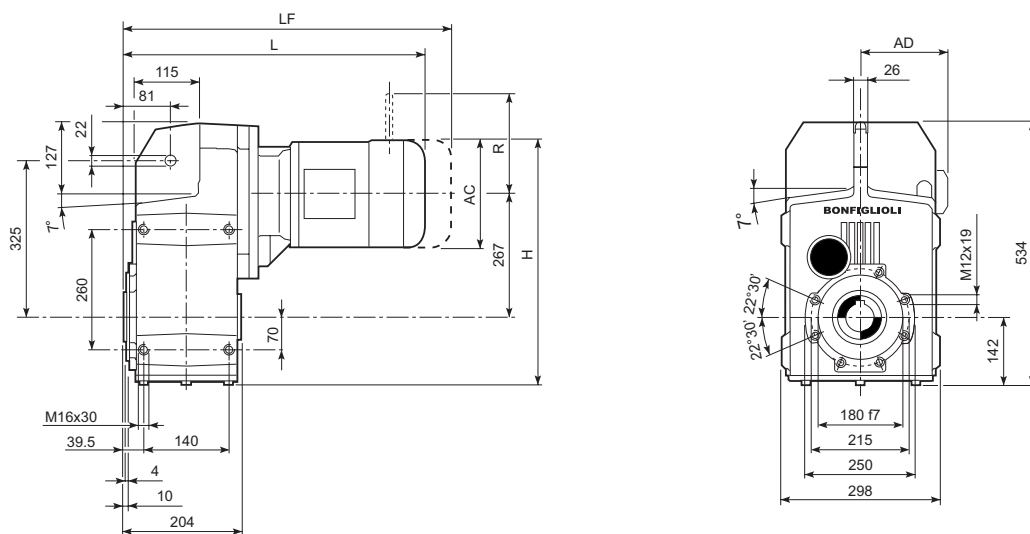
Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

		M	M1	M2	N	N1	N2	N3	N4	X	P	lbs
F 60 3	N56C	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	12.697	227
F 60 3	N140TC	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	12.697	229
F 60 3	N180TC	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0</sup> / <sub>+0.0014</sub>	8.996	7.250	8.500	0.630	0.551	0.217	13.445	238
F 60 3	N210TC	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+0</sup> / <sub>+0.0014</sub>	8.996	7.250	8.500	0.531	0.531	0.217	14.646	245
F 60 3	N250TC	1.625 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.796	0.375 <sup>+0</sup> / <sub>+0.0014</sub>	13.780	7.250	8.500	—	0.551	0.217	17.480	285
F 60 3	N280TC	1.875 <sup>+0.0030</sup> / <sub>+0.0020</sub>	2.102	0.500 <sup>+0</sup> / <sub>+0.0017</sub>	13.740	10.500	9.000	—	0.551	0.217	17.677	289
F 60 4	N56C	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	15.472	238
F 60 4	N140TC	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	15.472	243
F 60 4	N180TC	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0</sup> / <sub>+0.0014</sub>	8.996	7.250	8.500	0.630	0.551	0.217	16.299	251

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC

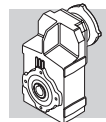


## F 60...M/ME

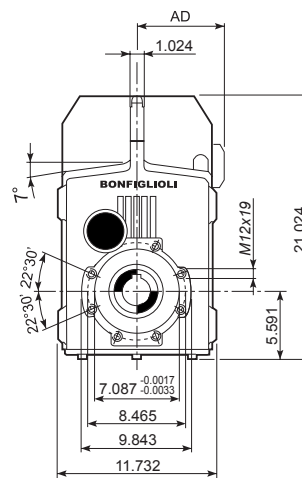
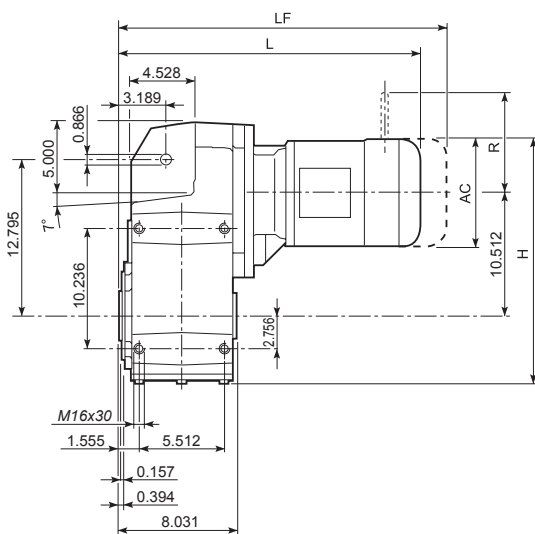


Dimensões em mm

			AC	H	L	AD	Kg	M...FD M...FA		M...FD		M...FA	
								LF	Kg	R	AD	R	AD
F 60 3	S2	ME2S	156	487	486.5	119	114	—	—	—	—	—	—
F 60 3	S3	ME3S	195	506.5	529.5	142	114	—	—	—	—	—	—
F 60 3	S3	ME3L	195	506.5	561.5	142	124	—	—	—	—	—	—
F 60 3	S4	ME4	258	538	669.5	193	156	—	—	—	—	—	—
F 60 3	S4	ME4LB	258	538	704.5	193	164	—	—	—	—	—	—
F 60 3	S5	ME5S	310	564	756	245	184	—	—	—	—	—	—
F 60 3	S5	ME5L	310	564	800	245	200	—	—	—	—	—	—
F 60 4	S1	M1	138	478	528	108	113	589	116	103	135	124	108
F 60 4	S2	ME2S	156	487	557	119	117	—	—	—	—	—	—
F 60 4	S3	ME3S	195	506.5	600	142	122	—	—	—	—	—	—
F 60 4	S3	ME3L	195	506.5	632	142	131	—	—	—	—	—	—
F 60 4	S4	ME4	258	538	740	193	156	—	—	—	—	—	—
F 60 4	S4	ME4LB	258	538	775	193	164	—	—	—	—	—	—



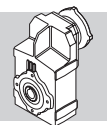
## F 60...M/ME



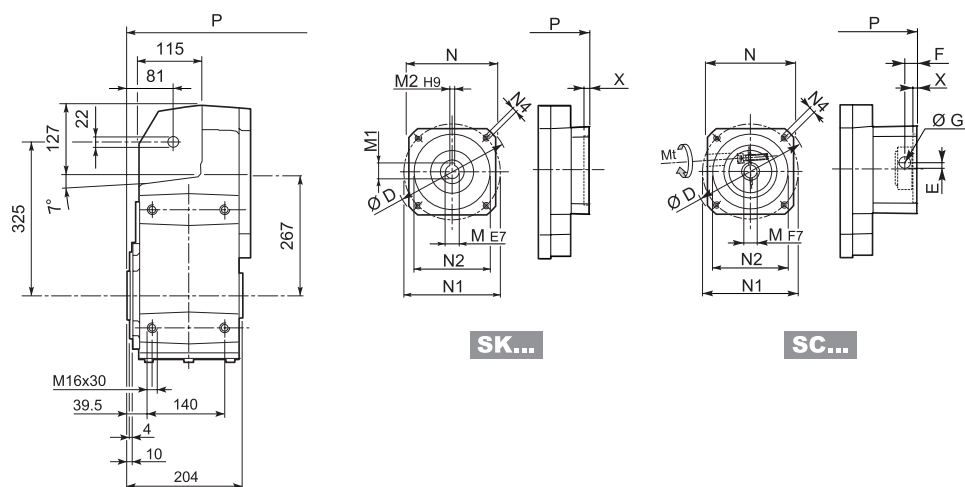
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

									M...FD		M...FD		M...FA	
			AC	H	L	AD		LF		R	AD	R	AD	
F 60 3	S2	ME2S	6.142	19.173	19.154	4.685	251	—	—	—	—	—	—	
F 60 3	S3	ME3S	7.677	19.941	20.846	5.591	251	—	—	—	—	—	—	
F 60 3	S3	ME3L	7.677	19.941	22.106	5.591	273	—	—	—	—	—	—	
F 60 3	S4	ME4	10.157	21.181	26.358	7.598	344	—	—	—	—	—	—	
F 60 3	S4	ME4LB	10.157	21.181	27.736	7.598	362	—	—	—	—	—	—	
F 60 3	S5	ME5S	12.205	22.205	29.764	9.646	406	—	—	—	—	—	—	
F 60 3	S5	ME5L	12.205	22.205	31.496	9.646	441	—	—	—	—	—	—	
F 60 4	S1	M1	5.433	18.819	20.787	4.252	249	23.189	256	4.055	5.315	4.882	4.252	
F 60 4	S2	ME2S	6.142	19.173	21.929	4.685	258	—	—	—	—	—	—	
F 60 4	S3	ME3S	7.677	19.941	23.622	5.591	269	—	—	—	—	—	—	
F 60 4	S3	ME3L	7.677	19.941	24.882	5.591	289	—	—	—	—	—	—	
F 60 4	S4	ME4	10.157	21.181	29.134	7.598	344	—	—	—	—	—	—	
F 60 4	S4	ME4LB	10.157	21.181	29.134	7.598	344	—	—	—	—	—	—	





## F 60...SK / SC



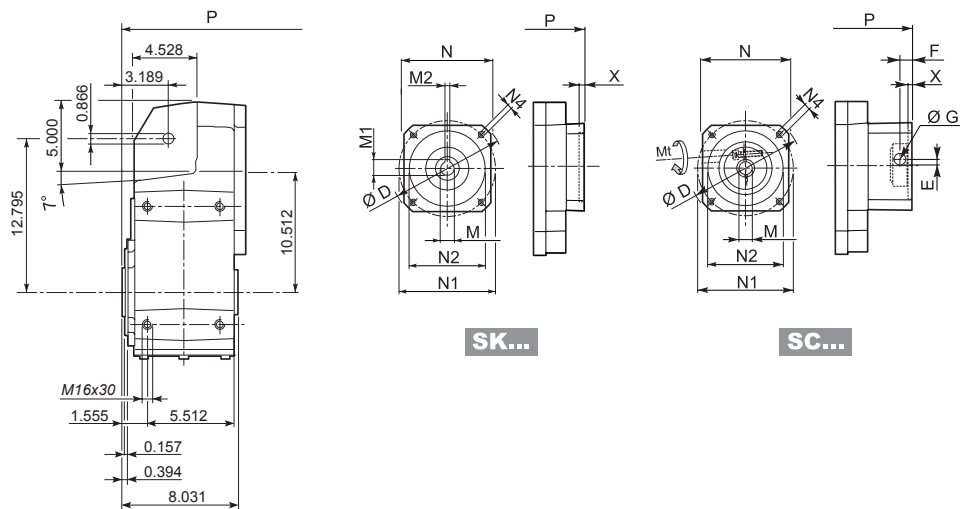
Dimensões em mm

		D	M	M1	M2	N	N1	N2	N4	X	2/3x		4x	
											P		P	
F 60 4	SK 80B	120	14	16.3	5	96	100	80	M6x12	4	—	—	392.5	109
F 60 3/4	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	322	106	392.5	112
F 60 3/4	SK 95A	130	14	16.3	5	102	115	95	M8x12	4	322	106	392.5	112
F 60 3/4	SK 95B	130	19	21.8	6	102	115	95	M8x12	4	322	106	392.5	112
F 60 3/4	SK 95C	130	24	27.3	8	102	115	95	M8x12	4	322	106	392.5	112
F 60 3/4	SK 110A	140	19	21.8	6	120	130	110	M8x12	5	322	106	392.5	112
F 60 3/4	SK 110B	140	24	27.3	8	120	130	110	M8x12	5	322	106	392.5	112
F 60 3/4	SK 130A	188	24	27.3	8	142	165	130	M10x20	5	322	108	392.5	112
F 60 3	SK 130B	189	32	35.3	10	160	165	130	M10x20	5	368.5	109	—	—
F 60 3	SK 180A	240	32	35.3	10	192	215	180	M12x19	5	368.5	109	—	—
F 60 3	SK 180B	240	38	41.3	10	192	215	180	M12x19	5	368.5	109	—	—

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	2/3x		4x	
														P		P	
F 60 4	SC 80B	M6	15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	—	—	416	113
F 60 3/4	SC 80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	345.5	107	416	113
F 60 3/4	SC 95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	345.5	107	416	113
F 60 3/4	SC 95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	345.5	107	416	113
F 60 3/4	SC 95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	345.5	107	416	113
F 60 3/4	SC 110A	M6	15	140	16.5	16	17.75	19	120	130	110	M8x16	5	345.5	108	416	113
F 60 3/4	SC 110B	M6	15	140	16.5	16	17.75	24	120	130	110	M8x16	5	345.5	108	416	113
F 60 3/4	SC 130A	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	345.5	109	416	115
F 60 3	SC 130B	M8	36	189	20	17	17.75	32	160	165	130	M10x20	5	390.5	112	—	—
F 60 3	SC 180A	M8	36	240	20	17.5	17.75	32	192	215	180	M12x24	5	394.5	112	—	—
F 60 3	SC 180B	M8	36	240	20	17.5	17.75	38	192	215	180	M12x24	5	394.5	112	—	—



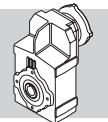
## F 60...SK / SC



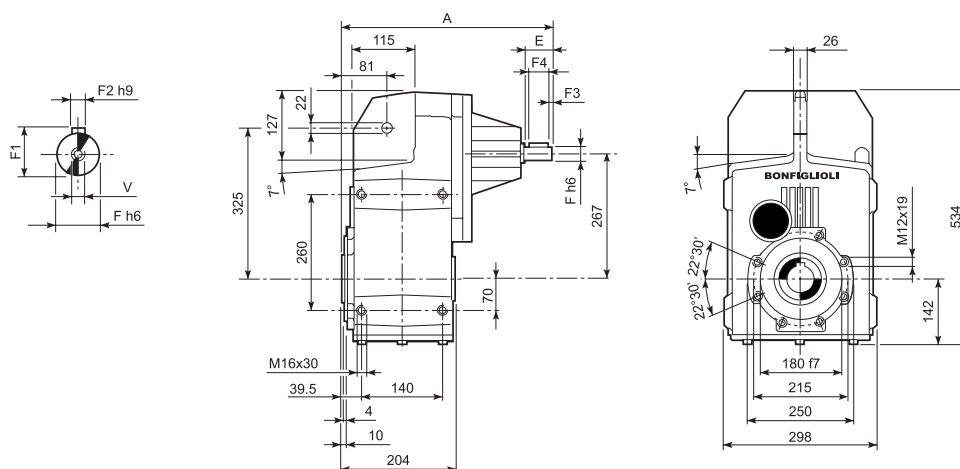
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		D	M	M1	M2	N	N1	N2	N4	X	P	2/3x		4x		
												lbs	P	lbs	P	
<b>F 60 4</b>	<b>SK 80B</b>	4.724	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	—	—	15.453	240		
<b>F 60 3/4</b>	<b>SK 80C</b>	4.724	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	12.677	234	15.453	247		
<b>F 60 3/4</b>	<b>SK 95A</b>	5.118	0.551 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.642	0.197 <sup>+0.0012</sup> / <sub>+0</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	12.677	234	15.453	247		
<b>F 60 3/4</b>	<b>SK 95B</b>	5.118	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	12.677	234	15.453	247		
<b>F 60 3/4</b>	<b>SK 95C</b>	5.118	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	4.016	4.528	3.740	<i>M8x12</i>	0.157	12.677	234	15.453	247		
<b>F 60 3/4</b>	<b>SK 110A</b>	5.512	0.748 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.858	0.236 <sup>+0.0012</sup> / <sub>+0</sub>	4.724	5.118	4.331	<i>M8x12</i>	0.197	12.677	234	15.453	247		
<b>F 60 3/4</b>	<b>SK 110B</b>	5.512	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	4.724	5.118	4.331	<i>M8x12</i>	0.197	12.677	234	15.453	247		
<b>F 60 3/4</b>	<b>SK 130A</b>	7.402	0.945 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.075	0.315 <sup>+0.0014</sup> / <sub>+0</sub>	5.591	6.496	5.118	<i>M10x20</i>	0.197	12.677	238	15.453	247		
<b>F 60 3</b>	<b>SK 130B</b>	7.441	1.260 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.390	0.394 <sup>+0.0014</sup> / <sub>+0</sub>	6.299	6.496	5.118	<i>M10x20</i>	0.197	14.508	240	—	—		
<b>F 60 3</b>	<b>SK 180A</b>	9.449	1.260 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.390	0.394 <sup>+0.0014</sup> / <sub>+0</sub>	7.559	8.465	7.087	<i>M12x19</i>	0.197	14.508	240	—	—		
<b>F 60 3</b>	<b>SK 180B</b>	9.449	1.496 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.626	0.394 <sup>+0.0014</sup> / <sub>+0</sub>	7.559	8.465	7.087	<i>M12x19</i>	0.197	14.508	240	—	—		




			Mt [lb · in]	D	E	F	G	M	N	N1	N2	N4	X	2/3x		4x	
														P	lbs	P	lbs
<b>F 60 4</b>	<b>SC 80B</b>	<i>M6</i>	15	4.724	0.610	0.571	0.699	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	—	—	16.378	249
<b>F 60 3/4</b>	<b>SC 80C</b>	<i>M6</i>	15	4.724	0.610	0.571	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	3.780	3.937	3.150	<i>M6x12</i>	0.157	13.602	236	16.378	249
<b>F 60 3/4</b>	<b>SC 95A</b>	<i>M6</i>	15	5.118	0.650	0.591	0.699	0.551 <sup>+0.0013</sup> / <sub>+0.0006</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	13.602	236	16.378	249
<b>F 60 3/4</b>	<b>SC 95B</b>	<i>M6</i>	15	5.118	0.650	0.591	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	13.602	236	16.378	249
<b>F 60 3/4</b>	<b>SC 95C</b>	<i>M6</i>	15	5.118	0.650	0.591	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.016	4.528	3.740	<i>M8x16</i>	0.157	13.602	236	16.378	249
<b>F 60 3/4</b>	<b>SC 110A</b>	<i>M6</i>	15	5.512	0.650	0.630	0.699	0.748 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	<i>M8x16</i>	0.197	13.602	238	16.378	249
<b>F 60 3/4</b>	<b>SC 110B</b>	<i>M6</i>	15	5.512	0.650	0.630	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	4.724	5.118	4.331	<i>M8x16</i>	0.197	13.602	238	16.378	249
<b>F 60 3/4</b>	<b>SC 130A</b>	<i>M6</i>	15	7.402	0.748	0.630	0.699	0.945 <sup>+0.0016</sup> / <sub>+0.0008</sub>	5.591	6.496	5.118	<i>M10x20</i>	0.197	13.602	240	16.378	254
<b>F 60 3</b>	<b>SC 130B</b>	<i>M8</i>	36	7.441	0.787	0.669	0.699	1.260 <sup>+0.0020</sup> / <sub>+0.0010</sub>	6.299	6.496	5.118	<i>M10x20</i>	0.197	15.374	247	—	—
<b>F 60 3</b>	<b>SC 180A</b>	<i>M8</i>	36	9.449	0.787	0.689	0.699	1.260 <sup>+0.0020</sup> / <sub>+0.0010</sub>	7.559	8.465	7.087	<i>M12x24</i>	0.197	15.531	247	—	—
<b>F 60 3</b>	<b>SC 180B</b>	<i>M8</i>	36	9.449	0.787	0.689	0.699	1.496 <sup>+0.0020</sup> / <sub>+0.0010</sub>	7.559	8.465	7.087	<i>M12x24</i>	0.197	15.531	247	—	—



## F 60...HS



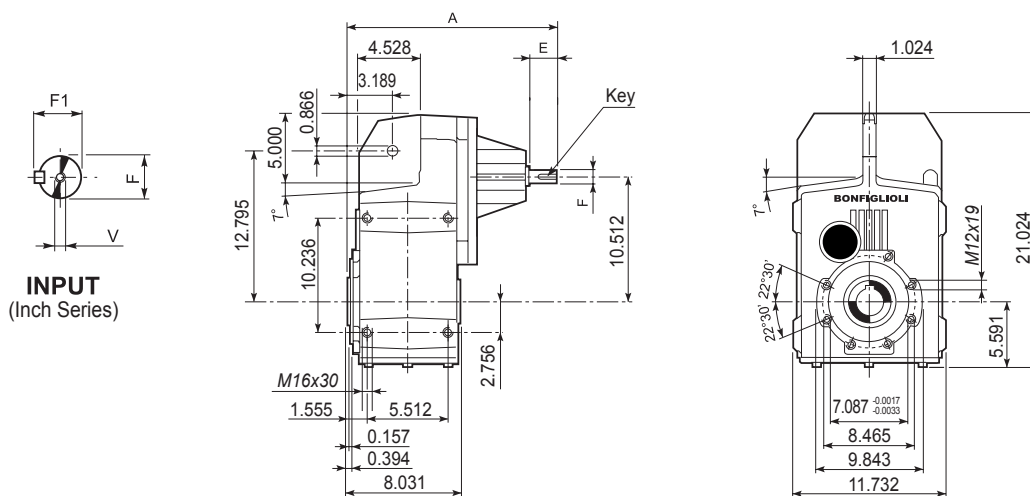
Dimensões em mm

		A	E	F	F1	F2	F3	F4	V	
<b>F 60 3</b>	HS	419	60	28	31	8	5.0	50	M10x22	108
<b>F 60 4</b>		462.5	50	24	27	8	2.5	45	M8x19	105




Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS



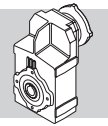
## F 60...NHS



Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

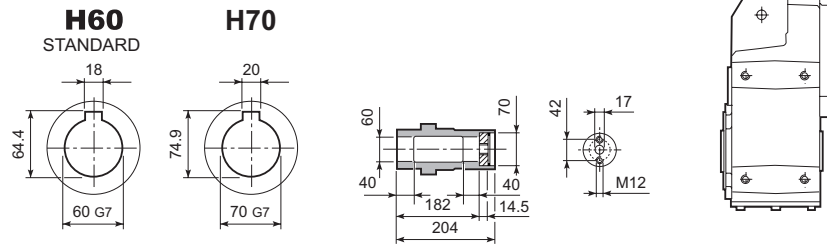
		A	E	F	F1	V	Key	
<b>F 60 3</b>	<b>NHS</b>	16.496	2.362	1.125 <sup>+0</sup> <sub>-0.0005</sub>	1.236	3/8 - 16 UNC	1/4 x 1/4 x 2 5/32	238
<b>F 60 4</b>		18.209	1.969	1.000 <sup>+0</sup> <sub>-0.0005</sub>	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	231

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

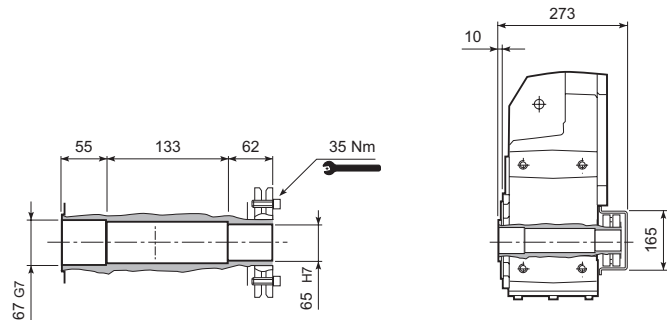


# F 60

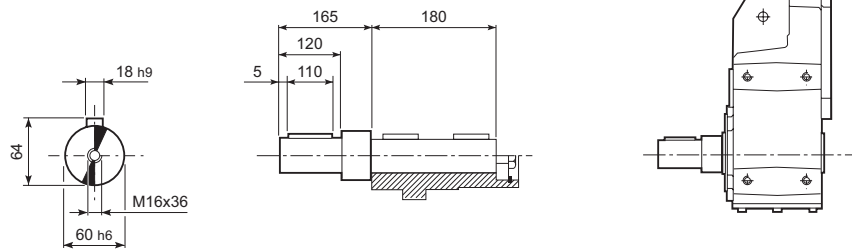
## F 60...H



## F 60...S

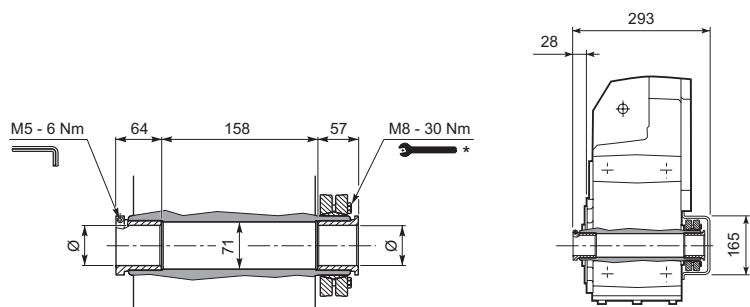


## F 60...R

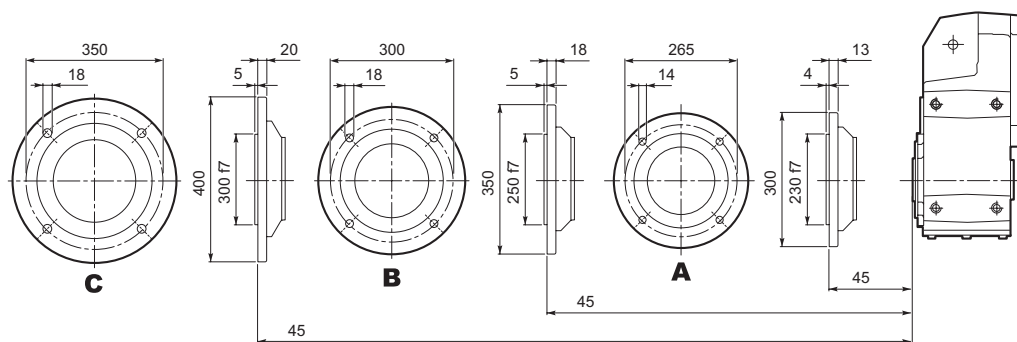


## F 60...QF

	Ø
QF60	60
QF65	65
QF70	70



## F 60...F...

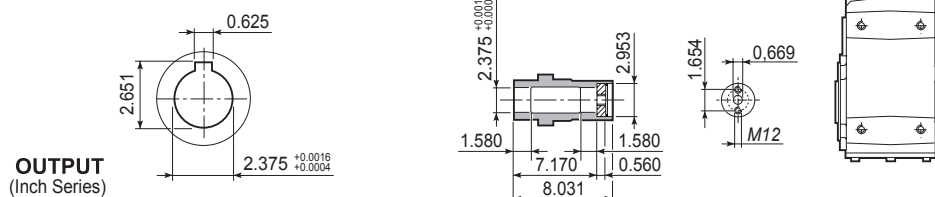


\* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.

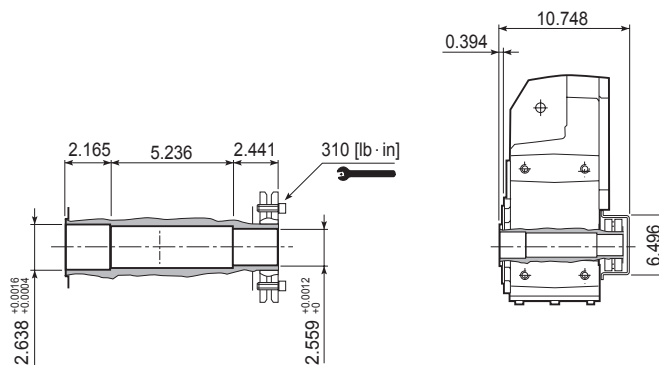


# F 60

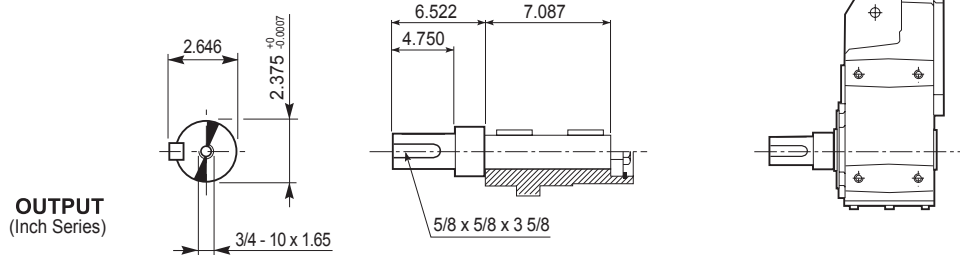
## F 60...NH



## F 60...S

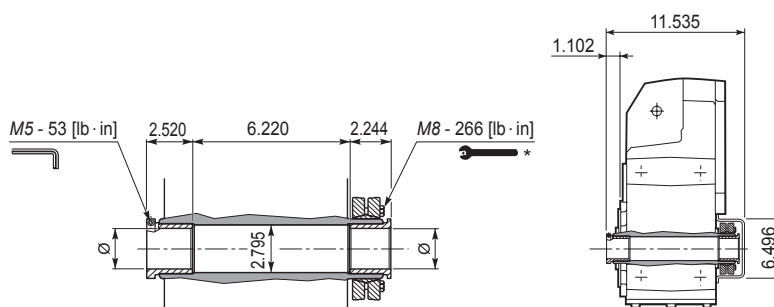


## F 60...NR

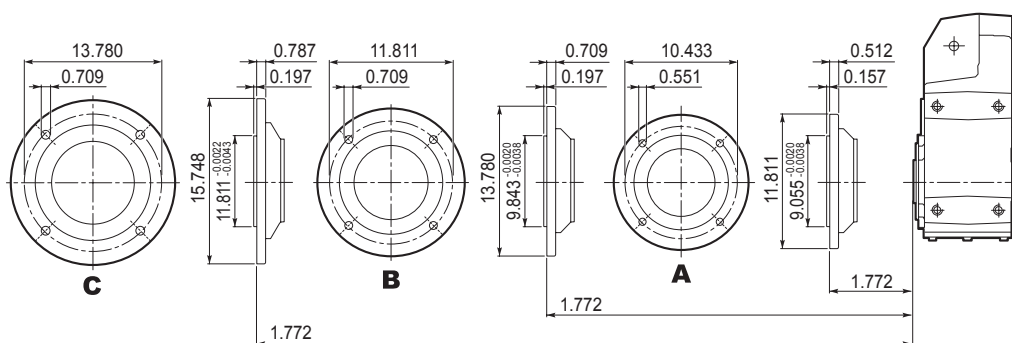


## F 60...NQF

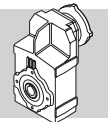
	Ø
NQF2-3/8	2.375
NQF2-7/16	2.438
NQF2-3/4	2.750



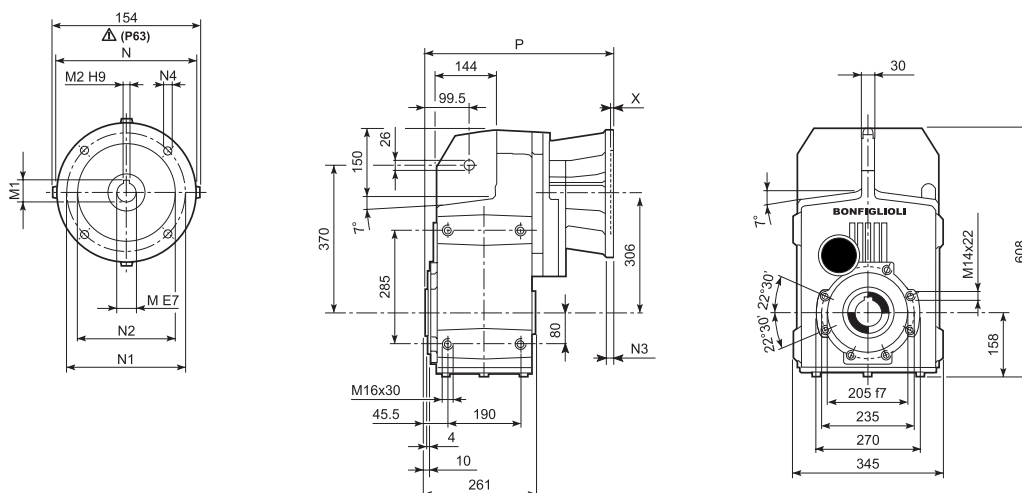
## F 60...F...



\* Siga as INSTRUÇÕES DE MONTAGEM fornecidas com o redutor.



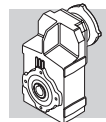
## F 70...P(IEC)



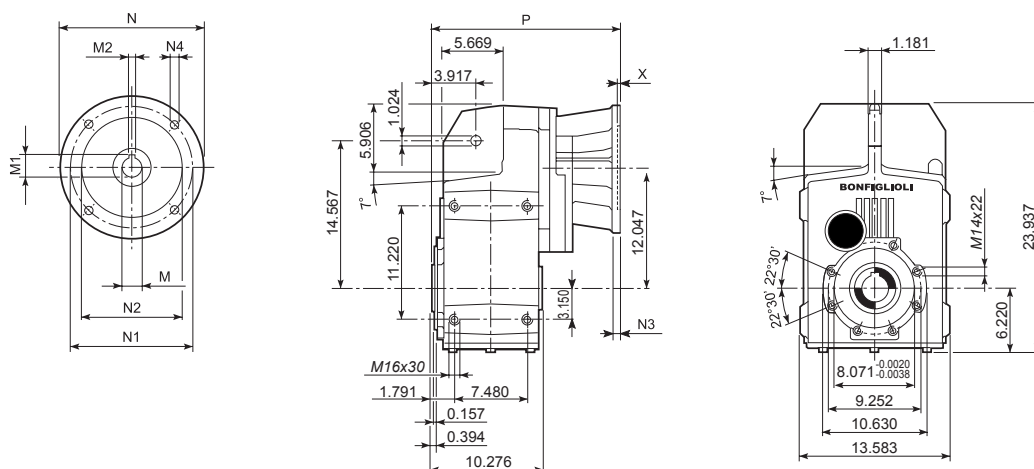
Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	
	<b>P80</b>	19	21.8	6	200	165	130	—	M10x12	4	387.5	167
	<b>P90</b>	24	27.3	8	200	165	130	—	M10x12	4	387.5	167
	<b>P100</b>	28	31.3	8	250	215	180	—	M12x16	4.5	397.5	171
	<b>P112</b>	28	31.3	8	250	215	180	—	M12x16	4.5	397.5	171
	<b>P132</b>	38	41.3	10	300	265	230	16	14	5	434	173
	<b>P160</b>	42	45.3	12	350	300	250	23	18	6	489.5	185
	<b>P180</b>	48	51.8	14	350	300	250	23	18	6	489.5	185
	<b>P200</b>	55	59.3	16	400	350	300	—	M16x25	7	514.5	206
	<b>P63</b>	11	12.8	4	140	115	95	—	M8x19	4	419	168
	<b>P71</b>	14	16.3	5	160	130	110	—	M8x16	4.5	419	168
	<b>P80</b>	19	21.8	6	200	165	130	—	M10x12	4	438.5	170
	<b>P90</b>	24	27.3	8	200	165	130	—	M10x12	4	438.5	170
	<b>P100</b>	28	31.3	8	250	215	180	—	M12x16	4.5	446.5	174
	<b>P112</b>	28	31.3	8	250	215	180	—	M12x16	4.5	446.5	174
	<b>P132</b>	38	41.3	10	300	265	230	16	14	5	482	176




Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA



## F 70...N(NEMA Input)

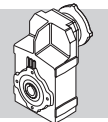


Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

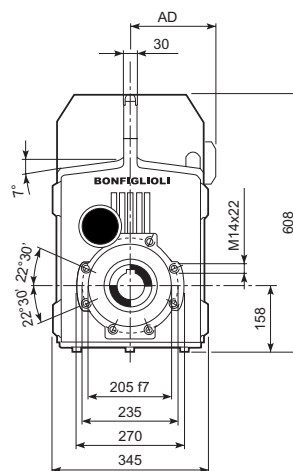
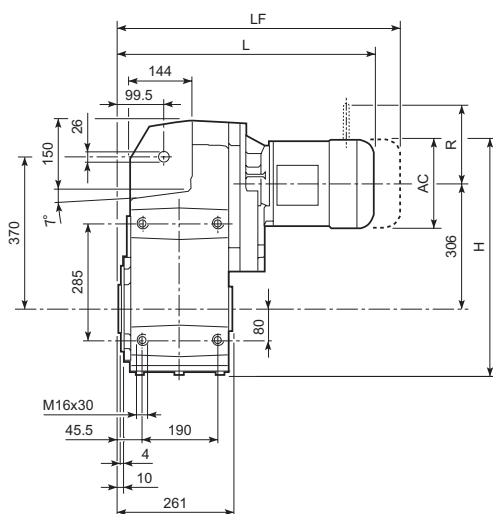
		M	M1	M2	N	N1	N2	N3	N4	X	P	
F 70 3	N140TC	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	15.453	368
F 70 3	N180TC	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0</sup> / <sub>+0.0014</sub>	8.996	7.250	8.500	0.630	0.551	0.217	16.024	377
F 70 3	N210TC	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+0</sup> / <sub>+0.0014</sub>	8.996	7.250	8.500	0.531	0.531	0.217	17.264	381
F 70 3	N250TC	1.625 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.796	0.375 <sup>+0</sup> / <sub>+0.0014</sub>	13.780	7.250	8.500	—	0.551	0.217	20.256	438
F 70 3	N280TC	1.875 <sup>+0.0030</sup> / <sub>+0.0020</sub>	2.102	0.500 <sup>+0</sup> / <sub>+0.0017</sub>	13.740	10.500	9.000	—	0.551	0.217	20.453	441
F 70 4	N56C	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+0</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	17.283	370
F 70 4	N140TC	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+0</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	17.283	375
F 70 4	N180TC	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+0</sup> / <sub>+0.0014</sub>	8.996	7.250	8.500	0.630	0.551	0.217	18.031	384
F 70 4	N210TC	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+0</sup> / <sub>+0.0014</sub>	8.996	7.250	8.500	0.531	0.531	0.217	19.154	388

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC





## F 70...M/ME

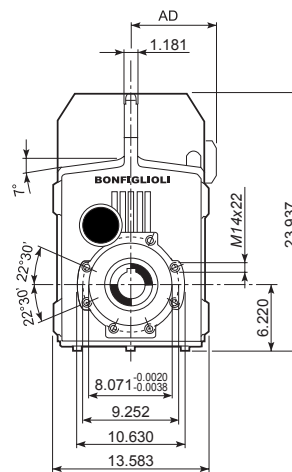
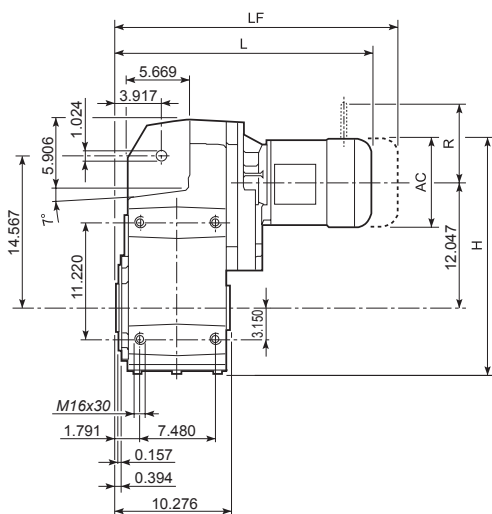


Dimensões em mm

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD		LF		R	AD	R	AD
F 70 3	S2	ME2S	156	542	552	119	173	—	—	—	—	—	—
F 70 3	S3	ME3S	195	561.5	595	142	178	—	—	—	—	—	—
F 70 3	S3	ME3L	195	561.5	627	142	188	—	—	—	—	—	—
F 70 3	S4	ME4	258	593	735	193	220	—	—	—	—	—	—
F 70 3	S4	ME4LB	258	593	770	193	228	—	—	—	—	—	—
F 70 3	S5	ME5S	310	619	821.5	245	248	—	—	—	—	—	—
F 70 3	S5	ME5L	310	619	865.5	245	264	—	—	—	—	—	—
F 70 4	S1	M1	138	533	574	108	173	635	176	103	135	124	108
F 70 4	S2	ME2S	156	542	603	119	177	—	—	—	—	—	—
F 70 4	S3	ME3S	195	561.5	646	142	181	—	—	—	—	—	—
F 70 4	S3	ME3L	195	561.5	678	142	191	—	—	—	—	—	—
F 70 4	S4	ME4	258	593	786	193	223	—	—	—	—	—	—
F 70 4	S4	ME4LB	258	593	821	193	231	—	—	—	—	—	—

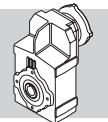


## F 70...M/ME

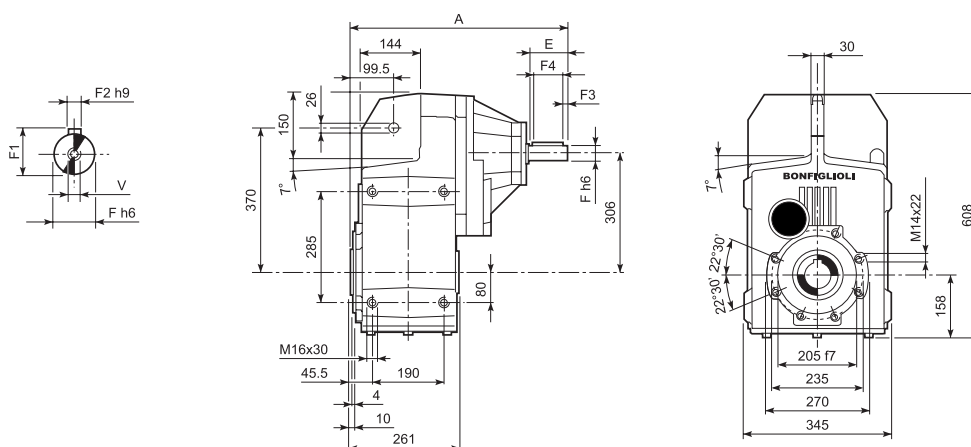


Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]




			AC	H	L	AD	lbs	M...FD M...FA		M...FD		M...FA	
								LF	lbs	R	AD	R	AD
F 70 3	S2	ME2S	6.142	21.339	21.732	4.685	381	—	—	—	—	—	—
F 70 3	S3	ME3S	7.677	22.106	23.425	5.591	392	—	—	—	—	—	—
F 70 3	S3	ME3L	7.677	22.106	24.685	5.591	414	—	—	—	—	—	—
F 70 3	S4	ME4	10.157	23.346	28.937	7.598	485	—	—	—	—	—	—
F 70 3	S4	ME4LB	10.157	23.346	30.315	7.598	503	—	—	—	—	—	—
F 70 3	S5	ME5SA	12.205	24.370	32.343	9.646	547	—	—	—	—	—	—
F 70 3	S5	ME5LA	12.205	24.370	34.075	9.646	582	—	—	—	—	—	—
F 70 4	S1	M1	5.433	20.984	22.598	4.252	381	25.000	388	4.055	5.315	4.882	4.252
F 70 4	S2	ME2S	6.142	21.339	23.740	4.685	390	—	—	—	—	—	—
F 70 4	S3	ME3S	7.677	22.106	25.433	5.591	399	—	—	—	—	—	—
F 70 4	S3	ME3L	7.677	22.106	26.693	5.591	421	—	—	—	—	—	—
F 70 4	S4	ME4	10.157	23.346	30.945	7.598	492	—	—	—	—	—	—
F 70 4	S4	ME4LB	10.157	23.346	32.323	7.598	509	—	—	—	—	—	—



## F 70...HS



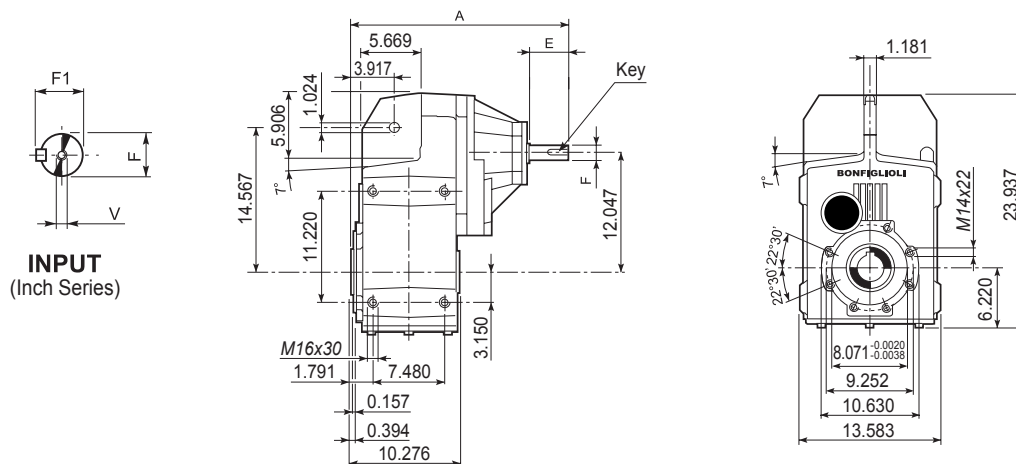
Dimensões em mm

		A	E	F	F1	F2	F3	F4	V	
<b>F 70 3</b>	HS	572	110	42	45	12	10	90	M12x28	186
<b>F 70 4</b>		508.5	50	24	27	8	2.5	45	M8x19	174




Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS



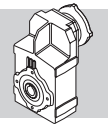
## F 70...NHS



Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

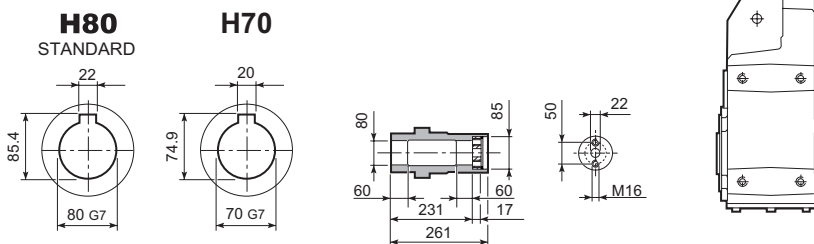
		A	E	F	F1	V	Key	
F 70 3	NHS	22.439	4.25	1.625 <sup>+0</sup> / <sub>-0.0006</sub>	1.791	5/8 - 11 UNC	3/8 x 3/8 x 4	410
F 70 4		20.020	1.969	1.000 <sup>+0</sup> / <sub>-0.0005</sub>	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	384

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

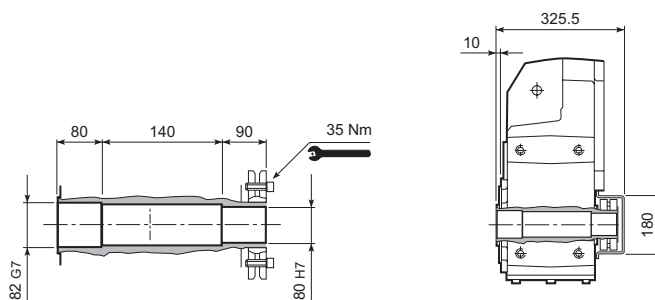


# F 70

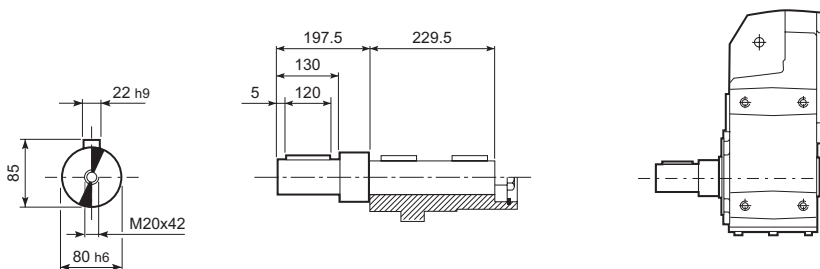
## F 70...H



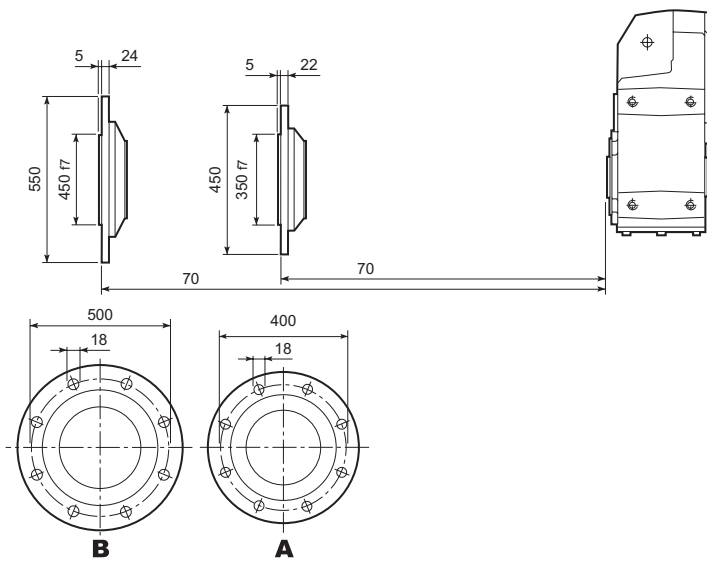
## F 70...S



## F 70...R



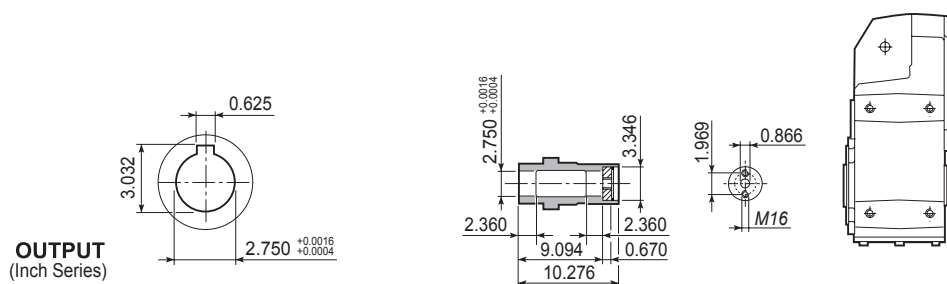
## F 70...F...



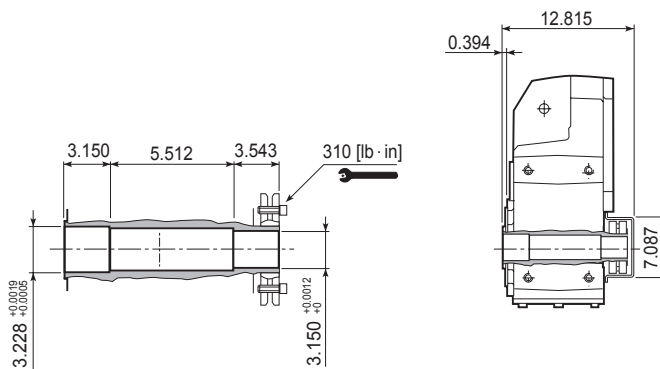


# F 70

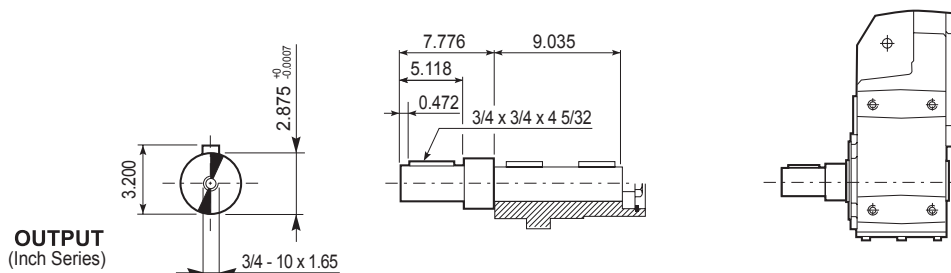
## F 70...NH



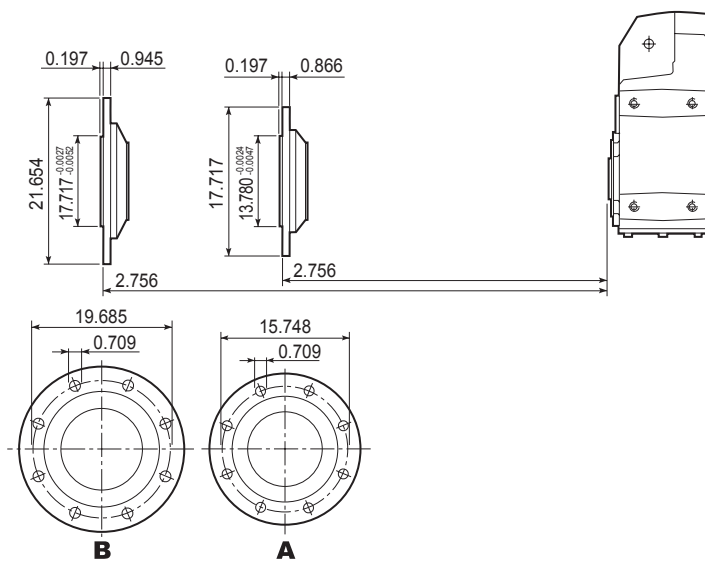
## F 70...S

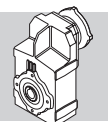


## F 70...NR

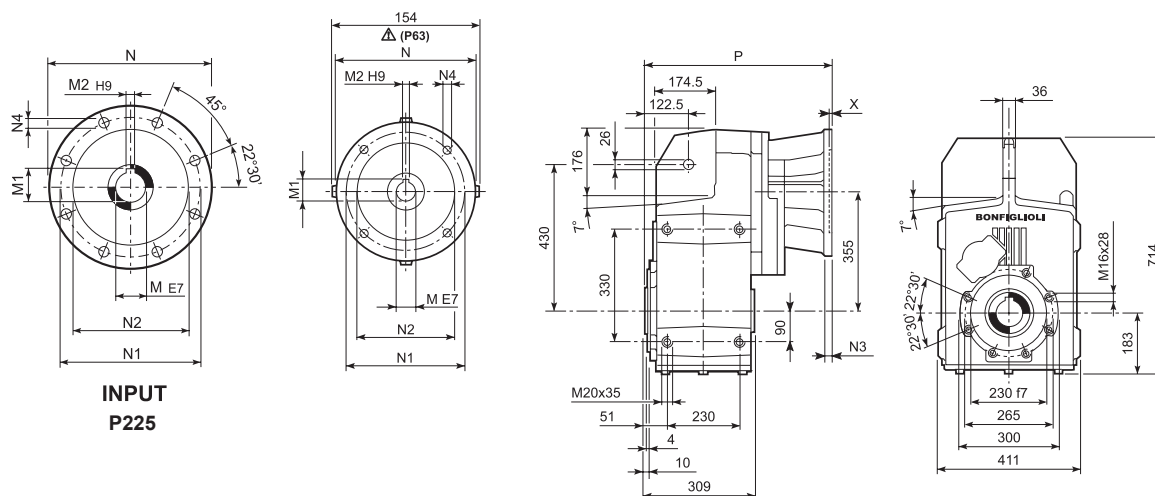


## F 70...F...





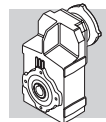
## F 80...P(IEC)



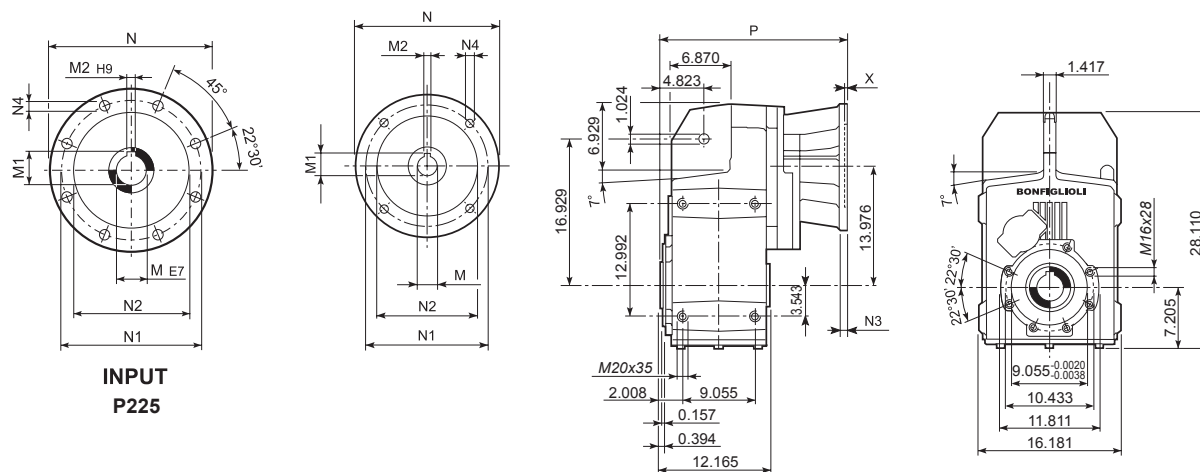
Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	
F 80 3	P80	19	21.8	6	200	165	130	—	M10x12	4	445.5	255
F 80 3	P90	24	27.3	8	200	165	130	—	M10x12	4	445.5	255
F 80 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	455.5	259
F 80 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	455.5	259
F 80 3	P132	38	41.3	10	300	265	230	16	14	5	492	261
F 80 3	P160	42	45.3	12	350	300	250	23	18	6	547.5	276
F 80 3	P180	48	51.8	14	350	300	250	23	18	6	547.5	276
F 80 3	P200	55	59.3	16	400	350	300	—	M16x25	7	572.5	298
F 80 3	P225	60	64.4	18	450	400	350	25	18	6	618	298
F 80 4	P63	11	12.8	4	140	115	95	—	M8x19	4	489	258
F 80 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	489	258
F 80 4	P80	19	21.8	6	200	165	130	—	M10x12	4	508.5	260
F 80 4	P90	24	27.3	8	200	165	130	—	M10x12	4	508.5	260
F 80 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	518.5	264
F 80 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	518.5	264
F 80 4	P132	38	41.3	10	300	265	230	16	14	5	552	266

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA



## F 80...N(NEMA Input)

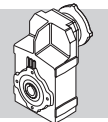


Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

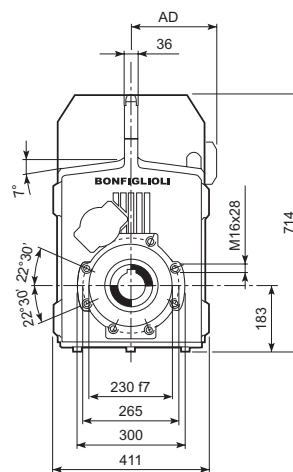
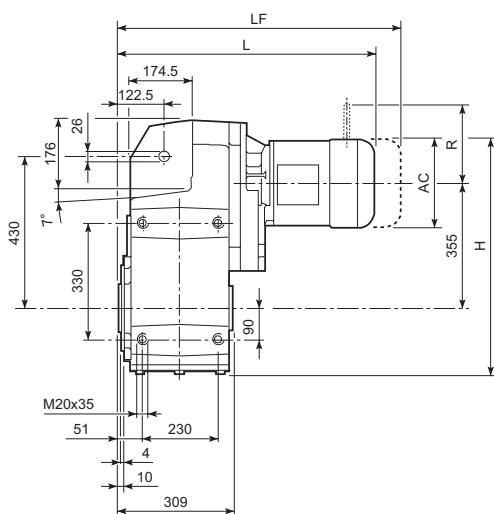
		M	M1	M2	N	N1	N2	N3	N4	X	P	
F 80 3	N180TC	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+</sup> / <sub>+0.0014</sub>	8.996	7.250	8.500	0.630	0.551	0.217	18.307	571
F 80 3	N210TC	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+</sup> / <sub>+0.0014</sub>	8.996	7.250	8.500	0.531	0.531	0.217	19.547	575
F 80 3	N250TC	1.625 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.796	0.375 <sup>+</sup> / <sub>+0.0014</sub>	13.780	7.250	8.500	—	0.551	0.217	22.539	638
F 80 3	N280TC	1.875 <sup>+0.0030</sup> / <sub>+0.0020</sub>	2.102	0.500 <sup>+</sup> / <sub>+0.0017</sub>	13.740	10.500	9.000	—	0.551	0.217	22.736	642
F 80 3	N320TC	2.125 <sup>+0.0035</sup> / <sub>+0.0024</sub>	2.350	0.500 <sup>+</sup> / <sub>+0.0017</sub>	17.677	11.000	12.500	—	0.669	0.217	25.591	723
F 80 4	N56C	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	20.039	569
F 80 4	N140TC	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	20.039	573
F 80 4	N180TC	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+</sup> / <sub>+0.0014</sub>	8.996	7.250	8.500	0.630	0.551	0.217	20.787	582
F 80 4	N210TC	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+</sup> / <sub>+0.0014</sub>	8.996	7.250	8.500	0.531	0.531	0.217	21.909	586

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC





## F 80...M/ME

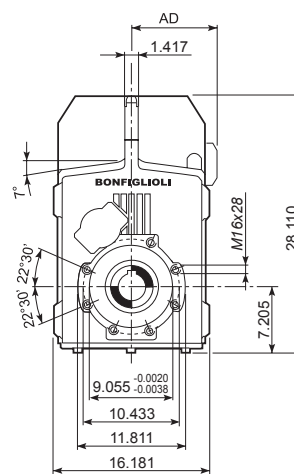
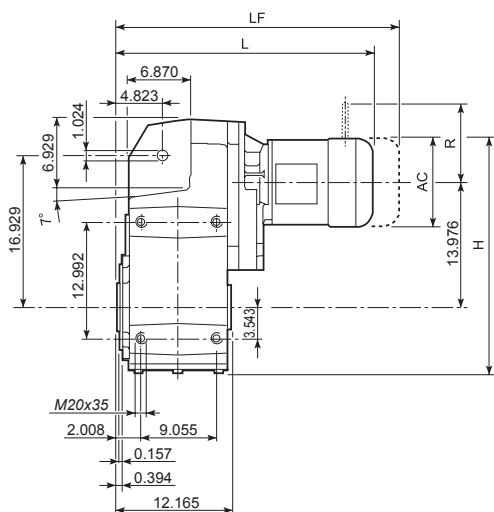


Dimensões em mm

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD		LF		R	AD	R	AD
F 80 3	S3	ME3S	195	635.5	653	142	266	—	—	—	—	—	—
F 80 3	S3	ME3L	195	635.5	685	142	275	—	—	—	—	—	—
F 80 3	S4	ME4	258	667	793	193	307	—	—	—	—	—	—
F 80 3	S4	ME4LB	258	667	828	193	315	—	—	—	—	—	—
F 80 3	S5	ME5S	310	693	879.5	245	335	—	—	—	—	—	—
F 80 3	S5	ME5L	310	693	923.5	245	351	—	—	—	—	—	—
F 80 4	S1	M1	138	607	644	108	262	705	265	103	135	124	108
F 80 4	S2	M2S	156	616	673	119	266	743	269	129	146	134	119
F 80 4	S2	ME2S	156	616	673	119	266	—	—	—	—	—	—
F 80 4	S3	ME3S	195	635.5	716	142	271	—	—	—	—	—	—
F 80 4	S3	ME3L	195	635.5	748	142	280	—	—	—	—	—	—
F 80 4	S4	ME4	258	667	856	193	312	—	—	—	—	—	—
F 80 4	S4	ME4LB	258	667	891	193	320	—	—	—	—	—	—

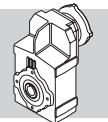


## F 80...M/ME

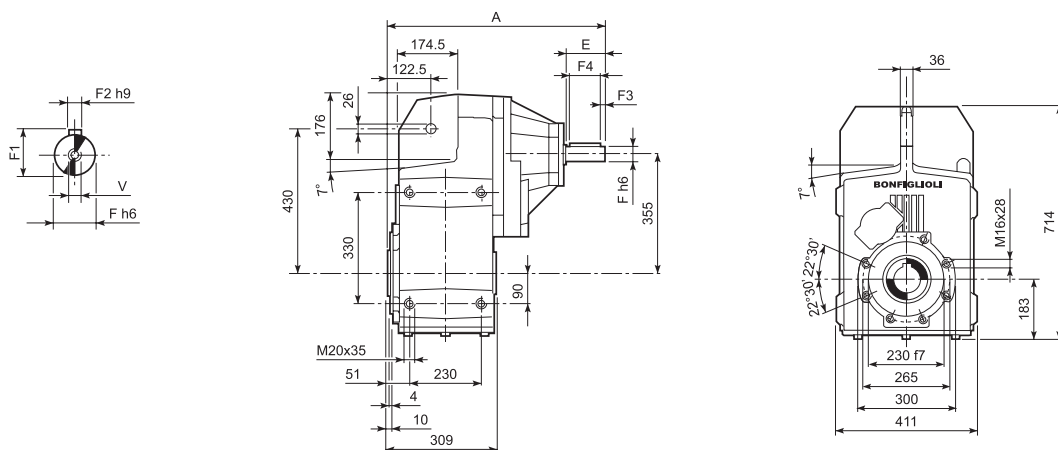


Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]




			AC	H	L	AD	lbs	M...FD M...FA		M...FD		M...FA	
								LF	lbs	R	AD	R	AD
F 80 3	S3	ME3S	7.677	25.020	25.709	5.591	586	—	—	—	—	—	—
F 80 3	S3	ME3L	7.677	25.020	26.969	5.591	606	—	—	—	—	—	—
F 80 3	S4	ME4	10.157	26.260	31.220	7.598	677	—	—	—	—	—	—
F 80 3	S4	ME4LB	10.157	26.260	32.598	7.598	694	—	—	—	—	—	—
F 80 3	S5	ME5S	12.205	27.283	34.626	9.646	739	—	—	—	—	—	—
F 80 3	S5	ME5L	12.205	27.283	36.358	9.646	774	—	—	—	—	—	—
F 80 4	S1	M1	5.433	23.898	25.354	4.252	578	27.756	584	4.055	5.315	4.882	4.252
F 80 4	S2	M2S	6.142	24.252	26.496	4.685	586	29.252	593	5.079	5.748	5.276	4.685
F 80 4	S2	ME2S	6.142	24.252	26.496	4.685	586	—	—	—	—	—	—
F 80 4	S3	ME3S	7.677	25.020	28.189	5.591	597	—	—	—	—	—	—
F 80 4	S3	ME3L	7.677	25.020	29.449	5.591	617	—	—	—	—	—	—
F 80 4	S4	ME4	10.157	26.260	33.701	7.598	688	—	—	—	—	—	—
F 80 4	S4	ME4LB	10.157	26.260	35.079	7.598	705	—	—	—	—	—	—



## F 80...HS



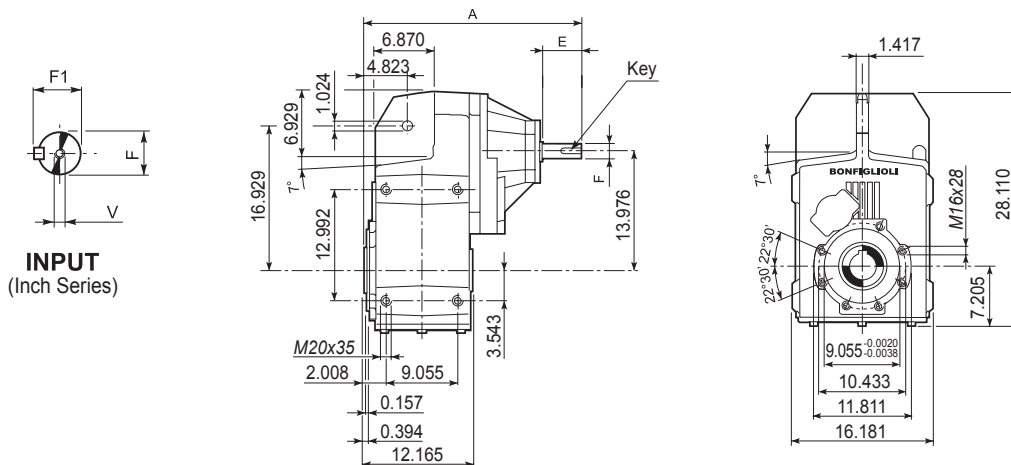
Dimensões em mm

		A	E	F	F1	F2	F3	F4	V	
<b>F 80 3</b>	<b>HS</b>	630	110	42	45	12	10	90	M12x28	273
<b>F 80 4</b>		575.5	50	24	27	8	2.5	45	M8x19	263

Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS



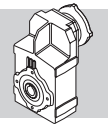
## F 80...NHS



Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

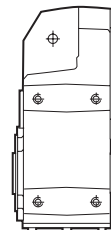
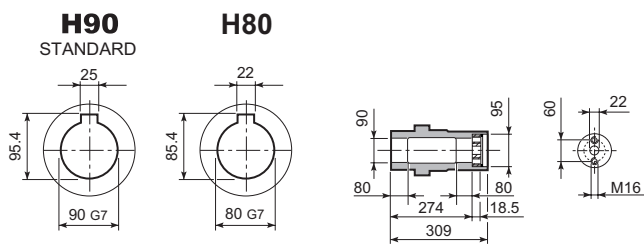
		A	E	F	F1	V	Key	
F 80 3	NHS	24.722	4.25	1.625 <sup>+0</sup> / <sub>-0.0006</sub>	1.791	5/8 - 11 UNC	3/8 x 3/8 x 4	602
F 80 4		22.657	1.969	1.000 <sup>+0</sup> / <sub>-0.0005</sub>	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	580

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

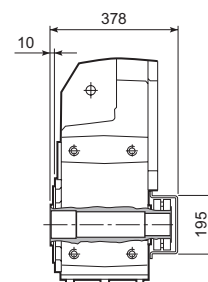
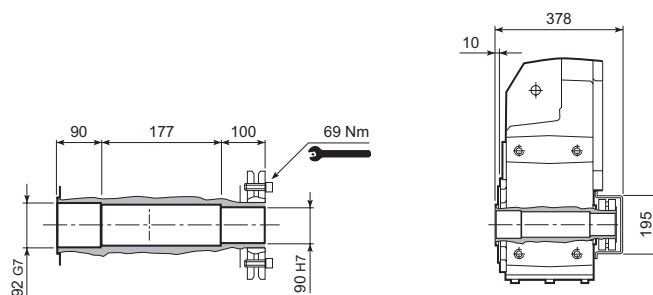


# F 80

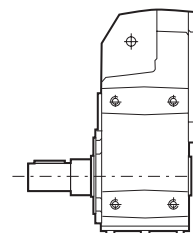
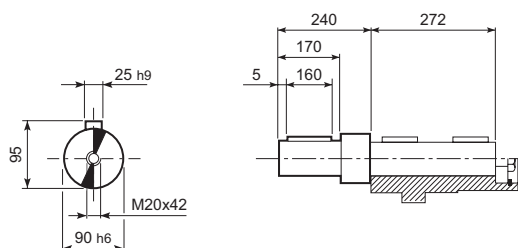
## F 80...H



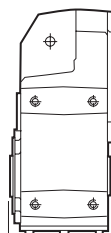
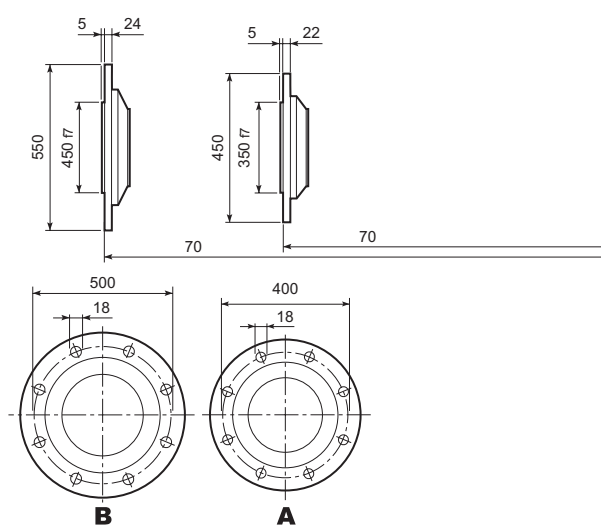
## F 80...S



## F 80...R



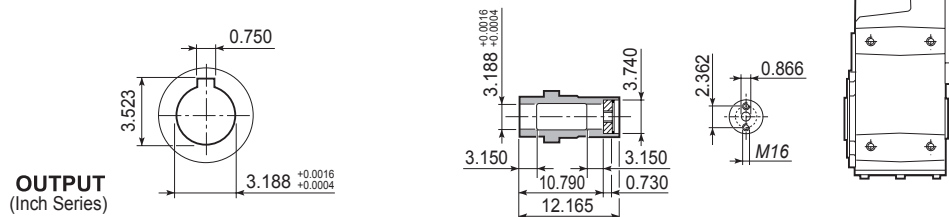
## F 80...F...



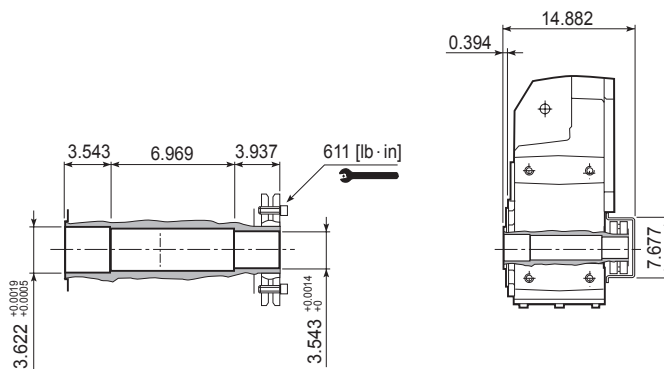


# F 80

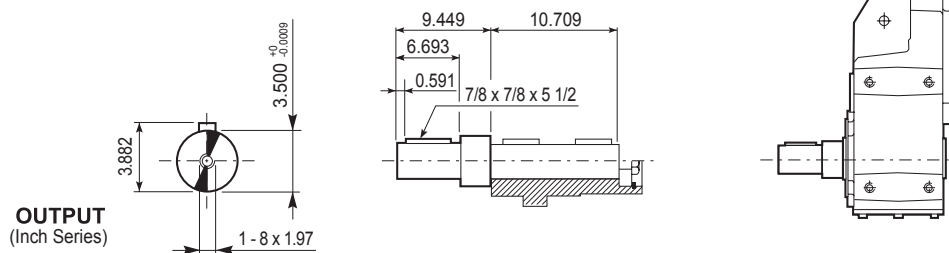
## F 80...NH



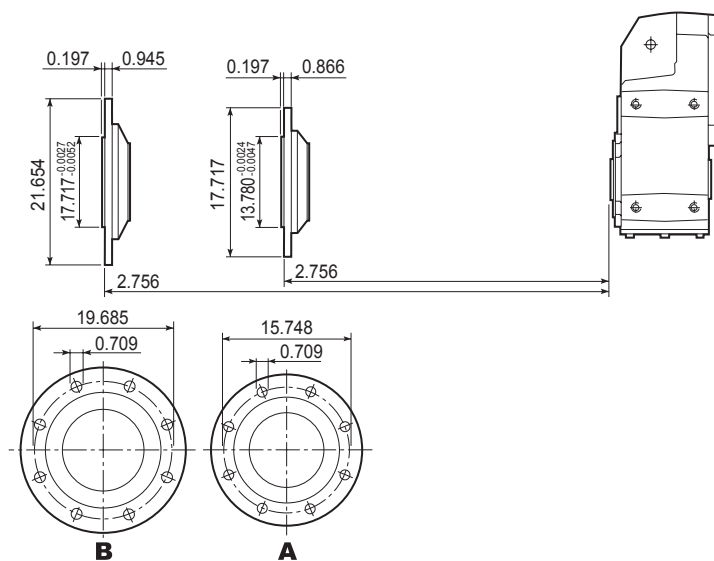
## F 80...S

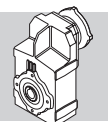


## F 80...NR

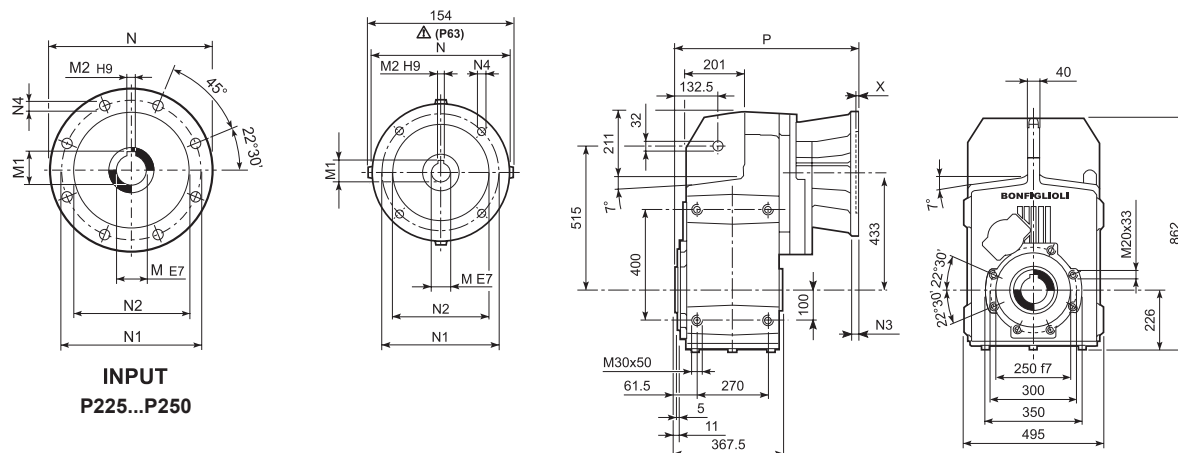


## F 80...F...





## F 90...P(IEC)

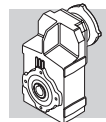


**INPUT**  
**P225...P250**

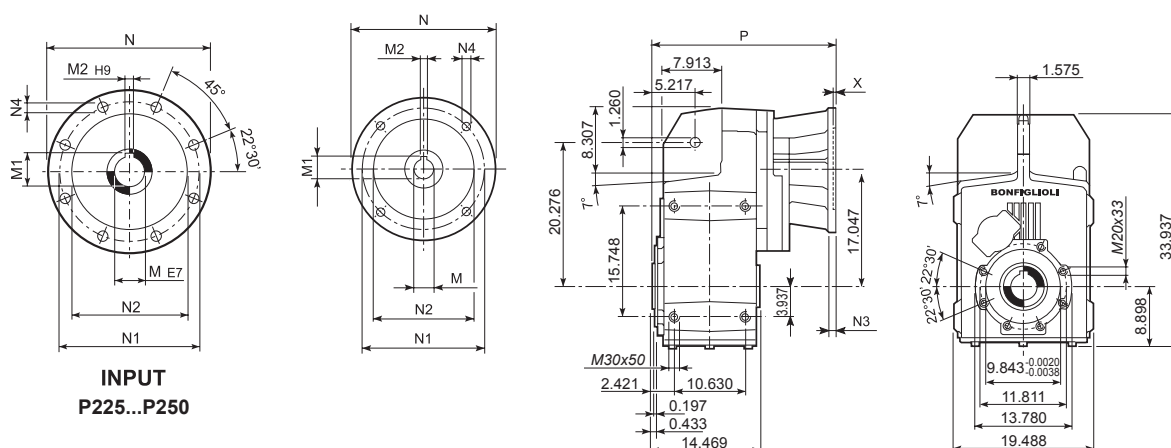
Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	X	P	kg
F 90 3	P80	19	21.8	6	200	165	130	—	M10x12	4	520.5	442
F 90 3	P90	24	27.3	8	200	165	130	—	M10x12	4	520.5	442
F 90 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	530.5	446
F 90 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	530.5	446
F 90 3	P132	38	41.3	10	300	265	230	16	14	5	567	449
F 90 3	P160	42	45.3	12	350	300	250	23	18	6	622.5	463
F 90 3	P180	48	51.8	14	350	300	250	23	18	6	622.5	463
F 90 3	P200	55	59.3	16	400	350	300	—	M16x25	7	647.5	485
F 90 3	P225	60	64.4	18	450	400	350	30	18	6	693	485
F 90 3	P250	65	69.4	18	550	500	450	30	18	6	723	507
F 90 4	P63	11	12.8	4	140	115	95	—	M8x19	4	584	448
F 90 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	584	448
F 90 4	P80	19	21.8	6	200	165	130	—	M10x12	4	603.5	450
F 90 4	P90	24	27.3	8	200	165	130	—	M10x12	4	603.5	450
F 90 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	613.5	454
F 90 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	613.5	454
F 90 4	P132	38	41.3	10	300	265	230	16	14	5	650	455
F 90 4	P160	42	45.3	12	350	300	250	23	18	5.5	700.5	461
F 90 4	P180	48	51.8	14	350	300	250	23	18	5.5	700.5	461

Versões de saída métricas disponíveis também em combinação com adaptador de motor NEMA



## F 90...N(NEMA Input)

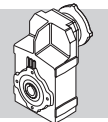


Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

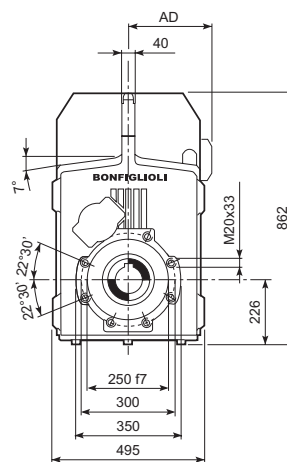
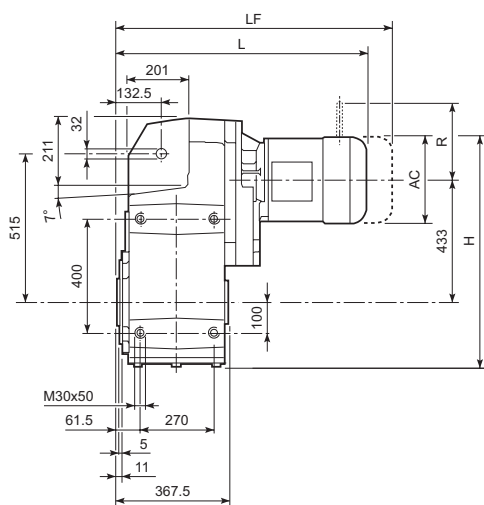
		M	M1	M2	N	N1	N2	N3	N4	X	P	
F 90 3	N180TC	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+</sup> / <sub>+0.0014</sub>	8.996	7.250	8.500	0.630	0.551	0.217	21.260	983
F 90 3	N210TC	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+</sup> / <sub>+0.0014</sub>	8.996	7.250	8.500	0.531	0.531	0.217	22.500	990
F 90 3	N250TC	1.625 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.796	0.375 <sup>+</sup> / <sub>+0.0014</sub>	13.780	7.250	8.500	—	0.551	0.217	25.492	1050
F 90 3	N280TC	1.875 <sup>+0.0030</sup> / <sub>+0.0020</sub>	2.102	0.500 <sup>+</sup> / <sub>+0.0017</sub>	13.740	10.500	9.000	—	0.551	0.217	25.689	1054
F 90 3	N320TC	2.125 <sup>+0.0035</sup> / <sub>+0.0024</sub>	2.350	0.500 <sup>+</sup> / <sub>+0.0017</sub>	17.677	11.000	12.500	—	0.669	0.217	28.543	1135
F 90 4	N56C	0.625 <sup>+0.0020</sup> / <sub>+0.0013</sub>	0.710	0.188 <sup>+</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	23.780	988
F 90 4	N140TC	0.875 <sup>+0.0024</sup> / <sub>+0.0016</sub>	0.964	0.188 <sup>+</sup> / <sub>+0.0012</sub>	6.496	5.875	4.500	0.472	0.394	0.197	23.780	992
F 90 4	N180TC	1.125 <sup>+0.0024</sup> / <sub>+0.0016</sub>	1.241	0.250 <sup>+</sup> / <sub>+0.0014</sub>	8.996	7.250	8.500	0.630	0.551	0.217	24.528	1001
F 90 4	N210TC	1.375 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.518	0.312 <sup>+</sup> / <sub>+0.0014</sub>	8.996	7.250	8.500	0.531	0.531	0.217	25.768	1003
F 90 4	N250TC	1.625 <sup>+0.0030</sup> / <sub>+0.0020</sub>	1.796	0.375 <sup>+</sup> / <sub>+0.0014</sub>	13.780	7.250	8.500	—	0.551	0.217	28.563	1046
F 90 4	N280TC	1.875 <sup>+0.0030</sup> / <sub>+0.0020</sub>	2.102	0.500 <sup>+</sup> / <sub>+0.0017</sub>	13.740	10.500	9.000	—	0.551	0.217	28.760	1050

Versões de saída imperiais disponíveis também em combinação com adaptador de motor IEC





## F 90...M/ME

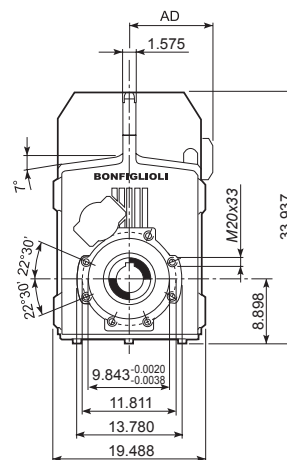
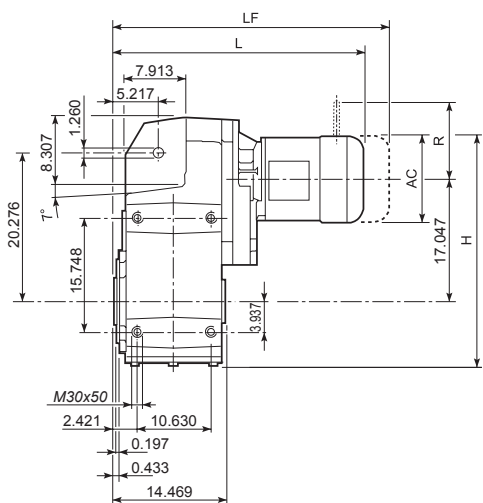


Dimensões em mm

								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD		LF		R	AD	R	AD
F 90 3	S3	ME3S	195	756	728	142	453	—	—	—	—	—	—
F 90 3	S3	ME3L	195	756	760	142	462	—	—	—	—	—	—
F 90 3	S4	ME4	258	787.5	868	193	494	—	—	—	—	—	—
F 90 3	S5	ME5L	310	813.5	998.5	245	538	—	—	—	—	—	—
F 90 4	S2	M2S	156	736.5	768	119	456	838	460	129	146	134	119
F 90 4	S2	ME2S	156	736.5	768	119	456	—	—	—	—	—	—
F 90 4	S3	ME3S	195	756	811	142	460	—	—	—	—	—	—
F 90 4	S3	ME3L	195	756	843	142	470	—	—	—	—	—	—
F 90 4	S4	ME4	258	787.5	951	193	502	—	—	—	—	—	—
F 90 4	S4	ME4LB	258	787.5	986	193	510	—	—	—	—	—	—

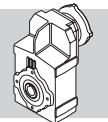


## F 90...M/ME

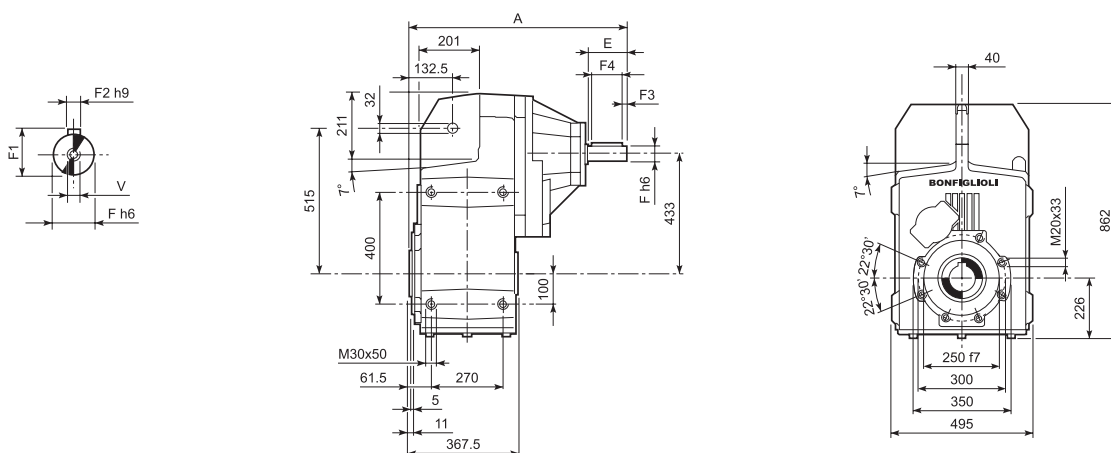


Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]


								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD		LF		R	AD	R	AD
F 90 3	S3	ME3S	7.677	29.764	28.661	5.591	999	—	—	—	—	—	—
F 90 3	S3	ME3L	7.677	29.764	29.921	5.591	1019	—	—	—	—	—	—
F 90 3	S4	ME4	10.157	31.004	34.173	7.598	1089	—	—	—	—	—	—
F 90 3	S5	ME5L	12.205	32.028	39.311	9.646	1186	—	—	—	—	—	—
F 90 4	S2	M2S	6.142	28.996	30.236	4.685	1005	32.992	1014	5.079	5.748	5.276	4.685
F 90 4	S2	ME2S	6.142	28.996	30.236	4.685	1005	—	—	—	—	—	—
F 90 4	S3	ME3S	7.677	29.764	31.929	5.591	1014	—	—	—	—	—	—
F 90 4	S3	ME3L	7.677	29.764	33.189	5.591	1036	—	—	—	—	—	—
F 90 4	S4	ME4	10.157	31.004	37.441	7.598	1107	—	—	—	—	—	—
F 90 4	S4	ME4LB	10.157	31.004	38.819	7.598	1124	—	—	—	—	—	—



## F 90...HS



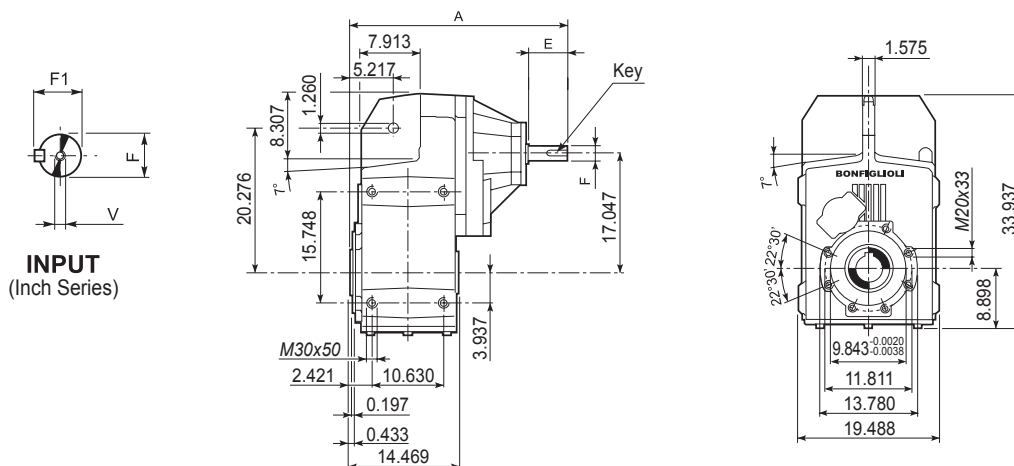
Dimensões em mm

		A	E	F	F1	F2	F3	F4	V	kg
	HS	F 90 3	806.5	140	60	64	18	10	M16x36	485
		F 90 4	673.5	50	24	27	8	2.5	M8x19	452




Versões de saída métricas disponíveis também em combinação com eixo de entrada NHS



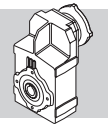
## F 90...NHS



Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

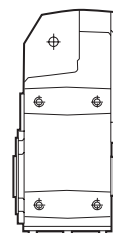
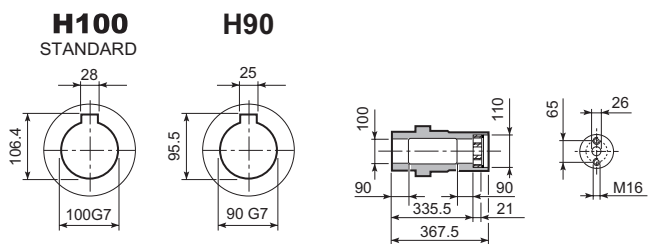
		A	E	F	F1	V	Key	
F 90 3	NHS	31.240	5	2.125 <sup>+0</sup> <sub>-0.0007</sub>	2.345	3/4 - 10 UNC	1/2 x 1/2 x 4 3/4	1069
F 90 4		26.516	1.969	1.000 <sup>+0</sup> <sub>-0.0005</sub>	1.109	3/8 - 16 UNC	1/4 x 1/4 x 1 3/4	996

Versões de saída imperiais disponíveis também em combinação com eixo de entrada HS

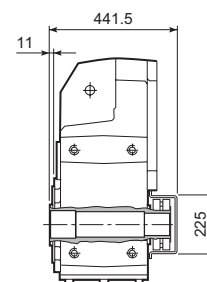
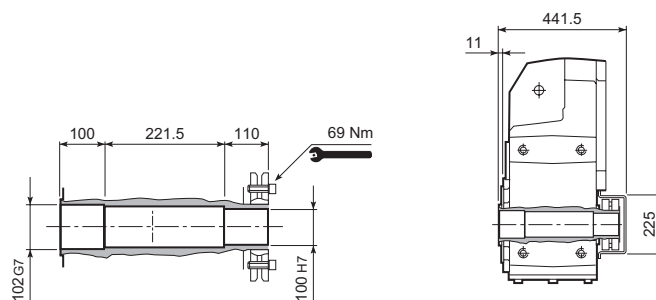


# F 90

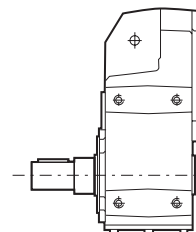
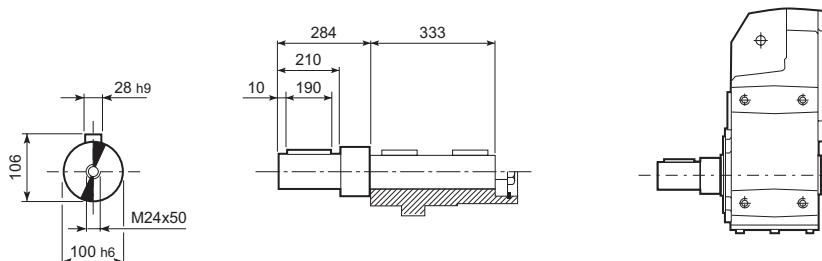
## F 90...H



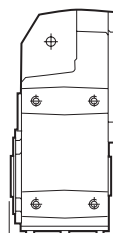
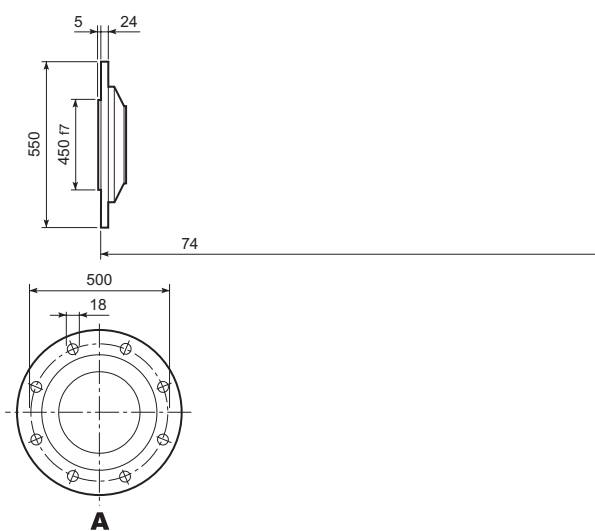
## F 90...S



## F 90...R



## F 90...F...

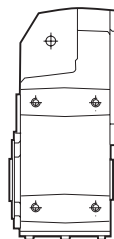
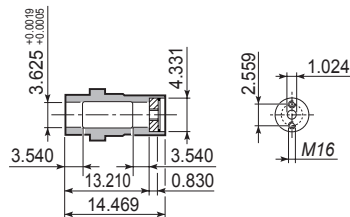
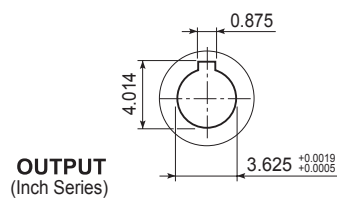


**A**

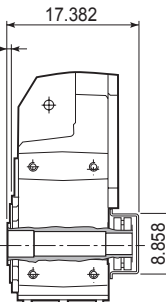
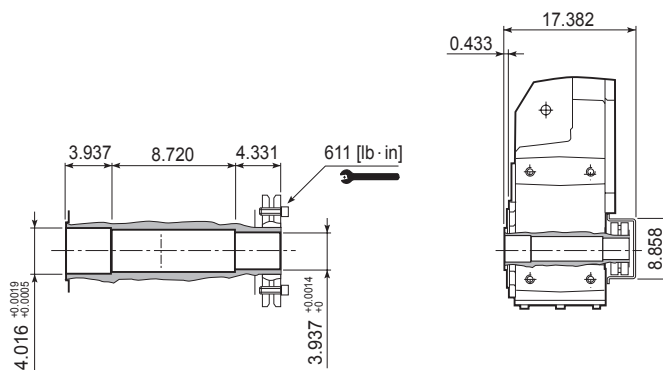


# F 90

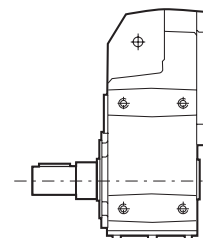
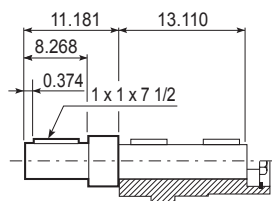
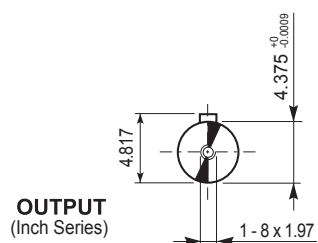
## F 90...NH



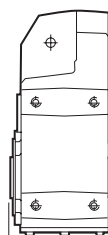
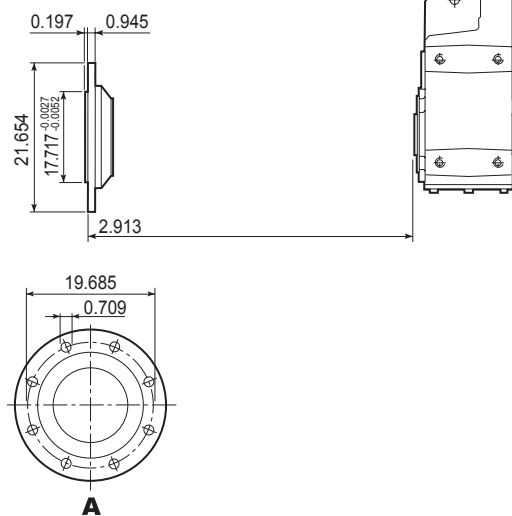
## F 90...S

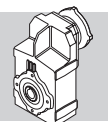


## F 90...NR



## F 90...F...

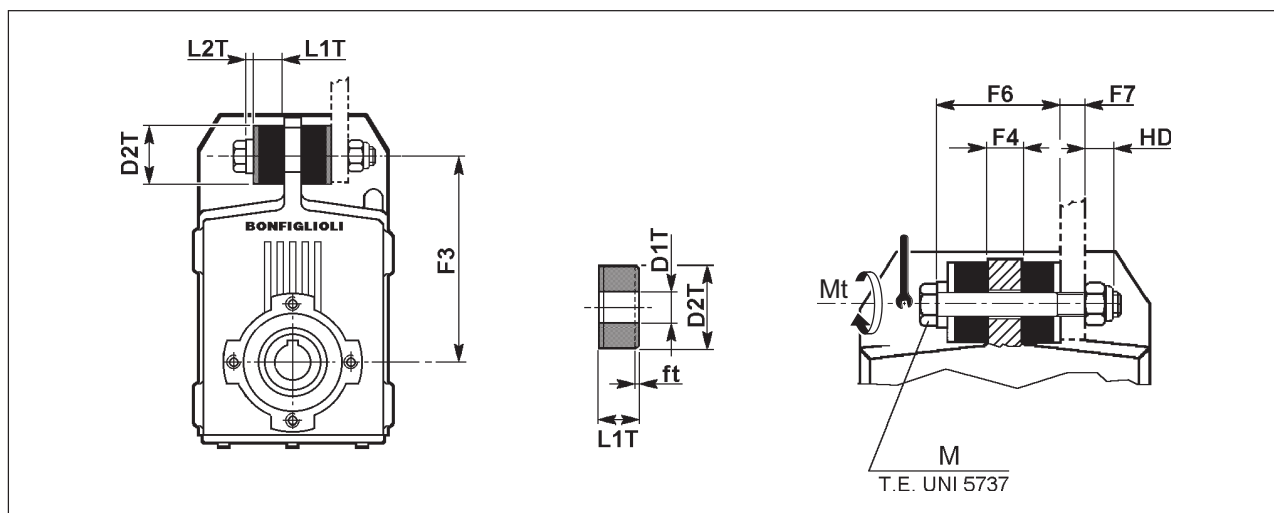




## 60 ACESSÓRIOS

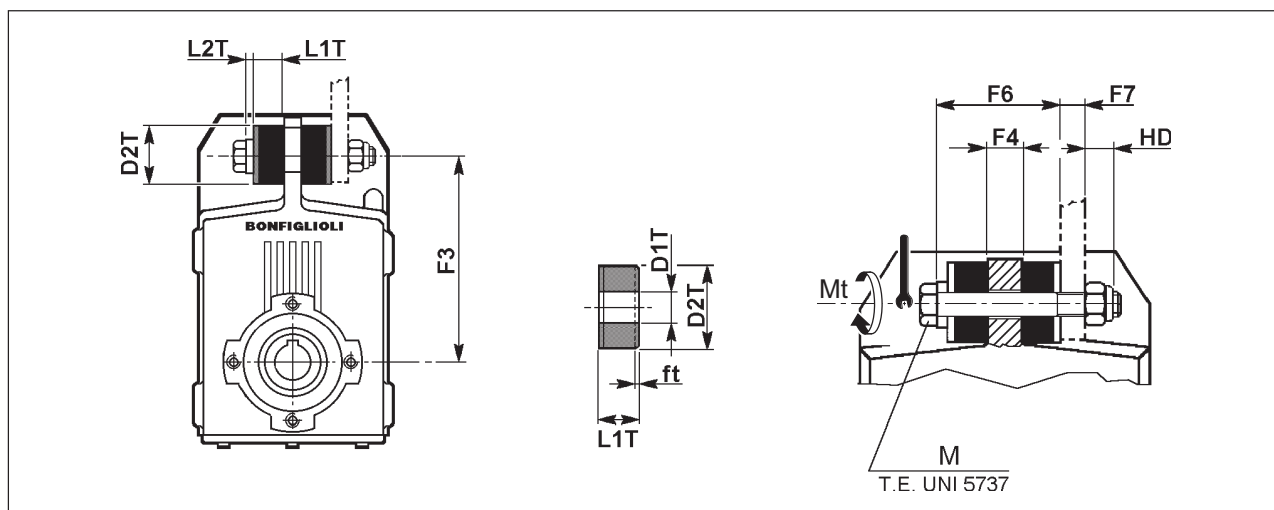
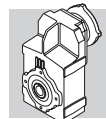
### Kit antivibração

Os redutores da série F series são fornecidos com um kit antivibração, a pedido do cliente. O kit inclui todos os componentes necessários para montagem do eixo (o braço de torque está fora do escopo). As dimensões são apresentadas na tabela abaixo.



Dimensões em mm

	F3	F4	F6	F7 (max.)	HD	L1T	L2T	D1T	D2T	M	Mt [Nm]	ft
<b>F 10</b>	140	20	55	10	12.3	15	5	11	30	M10x80	10	1.5
<b>F 20</b>	160	20	55	10	12.3	15	5	11	30	M10x80	10	1.5
<b>F 25</b>	162	20	65	20	14.8	20	5	12.5	40	M12x100	20	1.5
<b>F 31</b>	170	20	65	20	14.8	20	5	12.5	40	M12x100	20	1.5
<b>F 41</b>	218	16	61	24	14.8	20	5	12.5	40	M12x100	20	2.3
<b>F 51</b>	278	20	90	47	23	30	10	21	60	M20x160	50	3.0
<b>F 60</b>	325	26	96	41	23	30	10	21	60	M20x160	50	4.0
<b>F 70</b>	370	30	122	50	28	40	12	25	80	M24x200	100	4.0
<b>F 80</b>	430	36	128	44	28	40	12	25	80	M24x200	100	6.0
<b>F 90</b>	515	40	175	40	33.2	60	15	32	100	M30x260	200	9.0



Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

	F3	F4	F6	F7 (max.)	HD	L1T	L2T	D1T	D2T	M	Mt [lb · in]	ft
<b>F 10</b>	5.512	0.787	2.165	0.394	0.484	0.591	0.197	0.433	1.181	M10x80	89	0.059
<b>F 20</b>	6.299	0.787	2.165	0.394	0.484	0.591	0.197	0.433	1.181	M10x80	89	0.059
<b>F 25</b>	6.378	0.787	2.559	0.787	0.583	0.787	0.197	0.492	1.575	M12x100	177	0.059
<b>F 31</b>	6.693	0.787	2.559	0.787	0.583	0.787	0.197	0.492	1.575	M12x100	177	0.059
<b>F 41</b>	8.583	0.630	2.402	0.945	0.583	0.787	0.197	0.492	1.575	M12x100	177	0.091
<b>F 51</b>	10.945	0.787	3.543	1.850	0.906	1.181	0.394	0.827	2.362	M20x160	443	0.118
<b>F 60</b>	12.795	1.024	3.780	1.614	0.906	1.181	0.394	0.827	2.362	M20x160	443	0.157
<b>F 70</b>	14.567	1.181	4.803	1.969	1.102	1.575	0.472	0.984	3.150	M24x200	886	0.157
<b>F 80</b>	16.929	1.417	5.039	1.732	1.102	1.575	0.472	0.984	3.150	M24x200	886	0.236
<b>F 90</b>	20.276	1.575	6.890	1.575	1.307	2.362	0.591	1.260	3.937	M30x260	1771	0.354

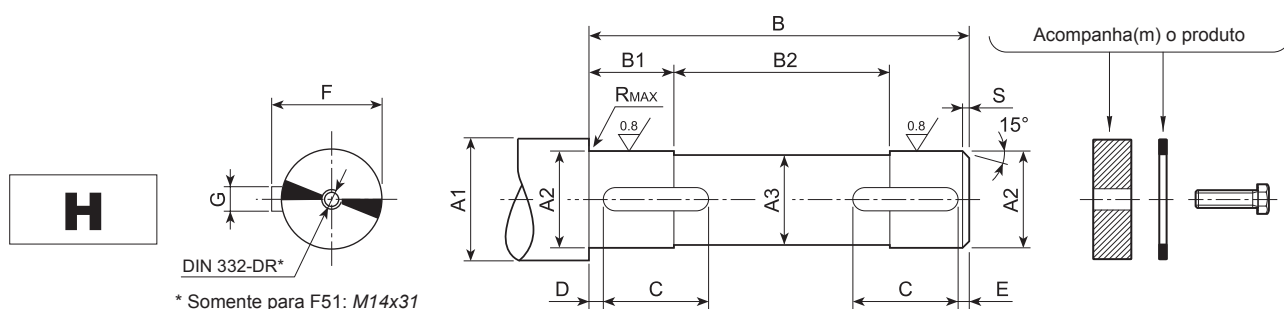






## 61 EIXO DO CLIENTE

Fabricar o eixo motriz a ser acoplado no eixo de saída do redutor com aço de boa qualidade, respeitando as dimensões informadas na tabela.

Um dispositivo, como o ilustrado na figura abaixo, também deverá ser instalado para fixar o eixo axialmente. Tomar o cuidado de verificar e dimensionar os diversos componentes para adequá-los às necessidades da aplicação.

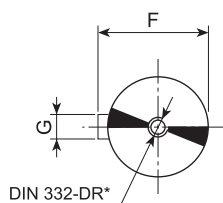


Dimensões em mm

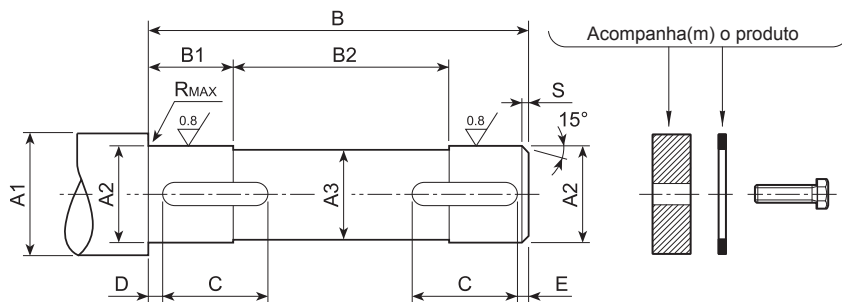
	A1	A2	A3	B	B1	B2	C	D	E	F	G	R	S		
F 10	≥ 35	30 h7	29	87.5	15.5	56.5	20	2	2	33	8 h9	0.5	1.5	8x7x20 A	M8x25
	≥ 30	25 h7	24	87.5	15.5	56.5	20	2	2	28	8 h9	0.5	1.5	8x7x20 A	
F 20	≥ 42	35 h7	34	99	18	63	22	2	2	38	10 h9	0.5	1.5	10x8x22 A	M8x30
	≥ 35	30 h7	29	99	18	63	22	2	2	33	8 h9	0.5	1.5	8x7x22 A	
F 25	≥ 47	40 h7	39	104	23	58	30	2	2	43	12 h9	0.5	1.5	12x8x30 A	M8x30
	≥ 42	35 h7	34	104	23	58	30	2	2	38	10 h9	0.5	1.5	10x8x30 A	
F 31	≥ 47	40 h7	39	104	28	48	30	2	2	43	12 h9	0.5	1.5	12x8x30 A	M8x30
	≥ 42	35 h7	34	104	28	48	30	2	2	38	10 h9	0.5	1.5	10x8x30 A	
F 41	≥ 52	45 h7	44	118	27.5	63	45	2.5	2.5	48.5	14 h9	1	2.0	14x9x45 A	M10x30
	≥ 47	40 h7	39	118	27.5	63	45	2.5	2.5	43	12 h9	1	2.0	12x8x45 A	
F 51	≥ 63	55 h7	54	139	33	73	50	2.5	2.5	59	16 h9	1	2.0	16x10x50 A	M14x45
	≥ 57	50 h7	49	139	33	73	50	2.5	2.5	53.5	14 h9	1	2.0	14x9x50 A	
F 60	≥ 78	70 h7	69	180	38	104	70	2.5	2.5	74.5	20 h9	1	2.0	20x12x70 A	M16x45
	≥ 68	60 h7	59	180	38	104	70	2.5	2.5	64	18 h9	1	2.0	18x11x70 A	
F 70	≥ 89	80 h7	79	229	58	113	75	3	3	85	22 h9	2.5	2.5	22x14x75 A	M20x55
	≥ 78	70 h7	69	229	58	113	75	3	3	74.5	20 h9	2.5	2.5	20x12x75 A	
F 80	≥ 99	90 h7	89	272	78	116	100	3	3	95	25 h9	2.5	2.5	25x14x100 A	M20x55
	√ 89	80 h7	79	272	78	116	100	3	3	85	22 h9	2.5	2.5	22x14x100 A	
F 90	≥ 111	100 h7	99	333	87.5	158	110	3	3	106	28 h9	2.5	2.5	28x16x110 A	M24x65
	≥ 99	90 h7	89	333	87.5	158	110	3	3	95	25 h9	2.5	2.5	25x14x110 A	





**NH**

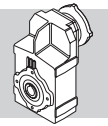


\* Somente para F51: M14x31

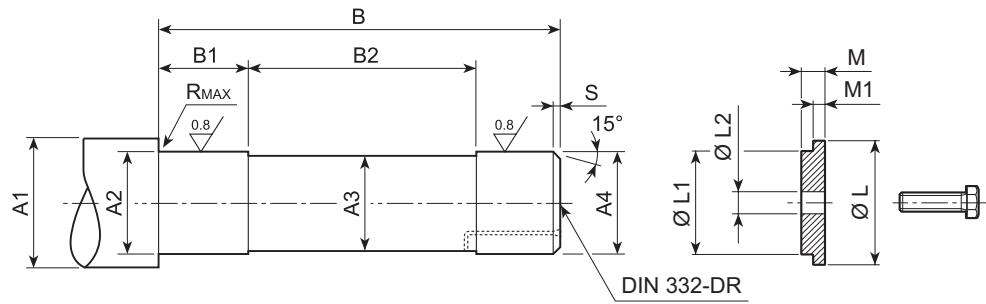


Dimensões em polegadas, exceto quando mostrados em *itálico> [mm]*

	A1	A2	A3	B	B1	B2	C	D	E	F	G	R	S	 Key	 UNI 5739
<b>F 10</b>	≥ 1.201	1.000 <sup>+0</sup> <sub>-0.0008</sub>	0.965	3.445	0.610	2.224	0.875	0.079	0.079	1.109	0.250 <sup>+0</sup> <sub>-0.0014</sub>	0.0196	0.059	1/4 x 1/4 x 7/8	M8x25
<b>F 20</b>	≥ 1.457	1.250 <sup>+0</sup> <sub>-0.0010</sub>	1.201	3.898	0.709	2.480	1.000	0.079	0.079	1.362	0.250 <sup>+0</sup> <sub>-0.0014</sub>	0.0196	0.059	1/4 x 1/4 x 1	M8x30
<b>F 25</b>	≥ 1.654	1.375 <sup>+0</sup> <sub>-0.0010</sub>	1.339	4.094	0.906	2.283	1.250	0.079	0.079	1.513	0.313 <sup>+0</sup> <sub>-0.0014</sub>	0.0196	0.059	5/16 x 5/16 x 1 1/4	M8x30
<b>F 31</b>	≥ 1.654	1.375 <sup>+0</sup> <sub>-0.0010</sub>	1.339	4.094	1.102	1.890	1.250	0.079	0.079	1.513	0.313 <sup>+0</sup> <sub>-0.0014</sub>	0.0196	0.059	5/16 x 5/16 x 1 1/4	M8x30
<b>F 41</b>	≥ 1.772	1.500 <sup>+0</sup> <sub>-0.0010</sub>	1.457	4.646	1.102	1.890	2.000	0.079	0.079	1.664	0.375 <sup>+0</sup> <sub>-0.0014</sub>	0.039	0.079	3/8 x 3/8 x 2	M10x30
<b>F 51</b>	≥ 2.283	2.000 <sup>+0</sup> <sub>-0.0012</sub>	1.969	5.472	1.299	2.874	2.000	0.098	0.098	2.218	0.500 <sup>+0</sup> <sub>-0.0017</sub>	0.039	0.079	1/2 x 1/2 x 2 1/2	M14x45
<b>F 60</b>	≥ 2.677	2.375 <sup>+0</sup> <sub>-0.0012</sub>	2.323	7.087	1.496	4.094	3.000	0.098	0.098	2.646	0.625 <sup>+0</sup> <sub>-0.0017</sub>	0.039	0.079	5/8 x 5/8 x 3	M16x45
<b>F 70</b>	≥ 3.071	2.750 <sup>+0</sup> <sub>-0.0012</sub>	2.717	9.016	2.283	4.449	3.000	0.295	0.118	3.027	0.625 <sup>+0</sup> <sub>-0.0017</sub>	0.098	0.098	5/8 x 5/8 x 3	M20x55
<b>F 80</b>	≥ 3.543	3.188 <sup>+0</sup> <sub>-0.0014</sub>	3.150	10.709	3.071	4.567	4.156	0.295	0.118	3.536	0.750 <sup>+0</sup> <sub>-0.0020</sub>	0.098	0.098	3/4 x 3/4 x 4 5/32	M20x55
<b>F 90</b>	≥ 3.543	3.625 <sup>+0</sup> <sub>-0.0014</sub>	3.583	13.110	3.445	6.220	5.500	0.295	0.118	4.009	0.875 <sup>+0</sup> <sub>-0.0020</sub>	0.098	0.098	7/8 x 7/8 x 5 1/2	M24x65



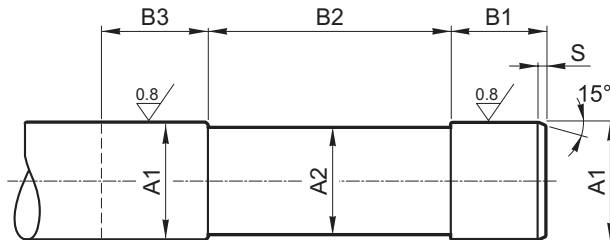
**S**



Dimensões em mm

	A1	A2	A3	A4	B	B1	B2	R	S	L	L1	L2	M	M1	UNI 5739
<b>F 10</b>	≥ 36	27 h7	24	25 h6	138	34	70	0.5	1.5	29.5	25 d9	9	7	5.5	M8x25
<b>F 20</b>	≥ 42	32 h7	29	30 h6	160	38	84	0.5	1.5	35.5	30 d9	9	7	5.5	M8x25
<b>F 25</b>	≥ 42	32 h7	30	31 h6	172	38	96	0.5	1.5	35.5	31 d9	9	7	5.5	M8x25
<b>F 31</b>	≥ 50	38 h7	35	36 h6	155	40	73	1	2	43	36 d9	9	7	5.5	M8x25
<b>F 41</b>	≥ 58	44 h7	41	42 h6	177	46.5	82	1	2	49	42 d9	11	8.5	7	M10x30
<b>F 51</b>	≥ 68	54 h7	51	52 g6	201	48	91	1	2	61	52 d9	18	9	7.5	M16x45
<b>F 60</b>	≥ 84	67 h7	64	65 g6	248	53	133	1.5	2	80	65 d9	18	9	7.5	M16x45
<b>F 70</b>	≥ 104	82 h7	79	80 g6	308	78	140	2.5	2.5	95	80 d9	22	13.5	12	M20x55
<b>F 80</b>	≥ 114	92 h7	89	90 g6	365	88	177	2.5	2.5	105	90 d9	22	13.5	12	M20x55
<b>F 90</b>	≥ 126	102 h7	99	100 g6	429.5	98	221.5	2.5	2.5	120	100 d9	26	20	18.5	M24x70

**QF**

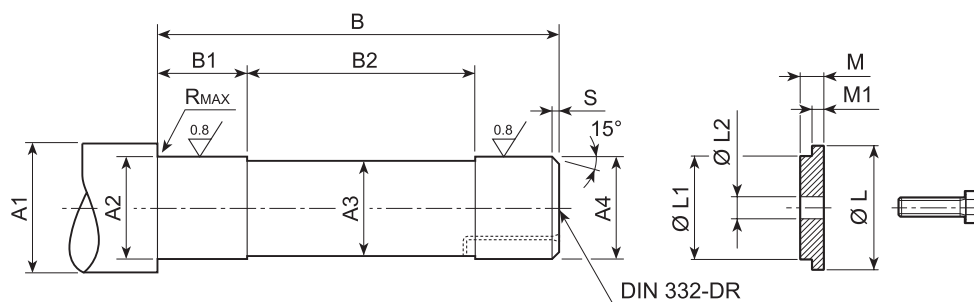


Dimensões em mm

		A1	A2	B1	B2	B3	S
<b>F 10</b>	<b>QF25</b>	25 h6	24	41	83	≥ 50	1.5
	<b>QF30</b>	30 h6	29				
<b>F 20</b>	<b>QF25</b>	25 h6	24	41	104.5	≥ 50	1.5
	<b>QF30</b>	30 h6	29				
<b>F 25</b>	<b>QF30</b>	30 h6	29	41	120.5	≥ 50	1.5
	<b>QF32</b>	32 h6	31				
<b>F 31</b>	<b>QF35</b>	35 h6	34	45	95.5	≥ 54	1.5
	<b>QF40</b>	40 h6	39				
<b>F 41</b>	<b>QF42</b>	42 h6	41	46	112.5	≥ 55	2
	<b>QF45</b>	45 h6	44				
<b>F 51</b>	<b>QF50</b>	50 h6	49	48	131	≥ 57	2
	<b>QF55</b>	55 h6	54				
<b>F 60</b>	<b>QF60</b>	60 h6	59	57	158	≥ 66	2.5
	<b>QF65</b>	65 h6	64				
	<b>QF70</b>	70 h6	69				



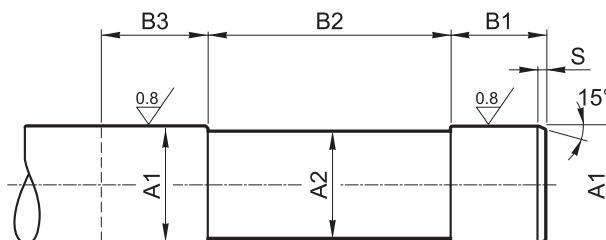
**S**



Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

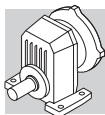
	A1	A2	A3	A4	B	B1	B2	R	S	L	L1	L2	M	M1	UNI 5739
<b>F 10</b>	≥ 1.417	1.063 <sup>+0</sup> / <sub>-0.0008</sub>	0.945	0.984 <sup>+0</sup> / <sub>-0.0005</sub>	5.433	1.339	2.756	0.020	0.059	1.161	0.984 <sup>-0.0026</sup> / <sub>-0.0046</sub>	0.354	0.276	0.217	<i>M8x25</i>
<b>F 20</b>	≥ 1.654	1.260 <sup>+0</sup> / <sub>-0.0010</sub>	1.142	1.181 <sup>+0</sup> / <sub>-0.0005</sub>	6.299	1.496	3.307	0.020	0.059	1.398	1.181 <sup>-0.0026</sup> / <sub>-0.0046</sub>	0.354	0.276	0.217	<i>M8x25</i>
<b>F 25</b>	≥ 1.654	1.260 <sup>+0</sup> / <sub>-0.0010</sub>	1.181	1.220 <sup>+0</sup> / <sub>-0.0006</sub>	6.772	1.496	3.780	0.020	0.059	1.398	1.220 <sup>-0.0031</sup> / <sub>-0.0056</sub>	0.354	0.276	0.217	<i>M8x25</i>
<b>F 31</b>	≥ 1.969	1.496 <sup>+0</sup> / <sub>-0.0010</sub>	1.378	1.417 <sup>+0</sup> / <sub>-0.0006</sub>	6.102	1.575	2.874	0.039	0.079	1.693	1.417 <sup>-0.0031</sup> / <sub>-0.0056</sub>	0.354	0.276	0.217	<i>M8x25</i>
<b>F 41</b>	≥ 2.283	1.732 <sup>+0</sup> / <sub>-0.0010</sub>	1.614	1.654 <sup>+0</sup> / <sub>-0.0006</sub>	6.969	1.831	3.228	0.039	0.079	1.929	1.654 <sup>-0.0031</sup> / <sub>-0.0056</sub>	0.433	0.335	0.276	<i>M10x30</i>
<b>F 51</b>	≥ 2.677	2.126 <sup>+0</sup> / <sub>-0.0012</sub>	2.008	2.047 <sup>+0</sup> / <sub>-0.0011</sub>	7.913	1.890	3.583	0.039	0.079	2.402	2.047 <sup>-0.0039</sup> / <sub>-0.0069</sub>	0.709	0.354	0.295	<i>M16x45</i>
<b>F 60</b>	≥ 3.307	2.638 <sup>+0</sup> / <sub>-0.0012</sub>	2.520	2.559 <sup>-0.0004</sup> / <sub>-0.0011</sub>	9.764	2.087	5.236	0.059	0.079	3.150	2.559 <sup>-0.0039</sup> / <sub>-0.0069</sub>	0.709	0.354	0.295	<i>M16x45</i>
<b>F 70</b>	≥ 4.094	3.228 <sup>+0</sup> / <sub>-0.0014</sub>	3.110	3.150 <sup>-0.0004</sup> / <sub>-0.0011</sub>	12.126	3.071	5.512	0.098	0.098	3.740	3.150 <sup>-0.0039</sup> / <sub>-0.0069</sub>	0.866	0.531	0.472	<i>M20x55</i>
<b>F 80</b>	≥ 4.488	3.622 <sup>+0</sup> / <sub>-0.0014</sub>	3.504	3.543 <sup>-0.0005</sup> / <sub>-0.0013</sub>	14.370	3.465	6.969	0.098	0.098	4.134	3.543 <sup>-0.0047</sup> / <sub>-0.0081</sub>	0.866	0.531	0.472	<i>M20x55</i>
<b>F 90</b>	≥ 4.961	4.016 <sup>+0</sup> / <sub>-0.0014</sub>	3.898	3.937 <sup>-0.0005</sup> / <sub>-0.0013</sub>	16.909	3.858	8.720	0.098	0.098	4.724	3.937 <sup>-0.0047</sup> / <sub>-0.0081</sub>	1.024	0.787	0.728	<i>M24x70</i>

**NQF**



Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

		A1	A2	B1	B2	B3	S
<b>F 10</b>	<b>NQF1</b>	1.000 <sup>+0</sup> / <sub>-0.0005</sub>	0.961	1.614	3.268	≥ 1.969	0.059
	<b>NQF1-3/16</b>	1.188 <sup>+0</sup> / <sub>-0.0006</sub>	1.148				
<b>F 20</b>	<b>NQF1</b>	1.000 <sup>+0</sup> / <sub>-0.0005</sub>	0.961	1.614	4.114	≥ 1.969	0.059
	<b>NQF1-3/16</b>	1.188 <sup>+0</sup> / <sub>-0.0006</sub>	1.148				
<b>F 25</b>	<b>NQF1-3/16</b>	1.188 <sup>+0</sup> / <sub>-0.0006</sub>	1.148	1.614	4.744	≥ 1.969	0.059
	<b>NQF1-1/4</b>	1.250 <sup>+0</sup> / <sub>-0.0006</sub>	1.211				
<b>F 31</b>	<b>NQF1-3/8</b>	1.375 <sup>+0</sup> / <sub>-0.0006</sub>	1.336	1.772	3.760	≥ 2.126	0.059
	<b>NQF1-7/16</b>	1.438 <sup>+0</sup> / <sub>-0.0006</sub>	1.398				
<b>F 41</b>	<b>NQF1-5/8</b>	1.625 <sup>+0</sup> / <sub>-0.0006</sub>	1.586	1.811	4.429	≥ 2.165	0.079
	<b>NQF1-3/4</b>	1.750 <sup>+0</sup> / <sub>-0.0006</sub>	1.711				
<b>F 51</b>	<b>NQF1-15/16</b>	1.938 <sup>+0</sup> / <sub>-0.0006</sub>	1.898	1.890	5.157	≥ 2.244	0.079
	<b>NQF2</b>	2.000 <sup>+0</sup> / <sub>-0.0007</sub>	1.961				
<b>F 60</b>	<b>NQF2-3/8</b>	2.375 <sup>+0</sup> / <sub>-0.0007</sub>	2.336	2.244	6.220	≥ 2.598	0.098
	<b>NQF2-7/16</b>	2.438 <sup>+0</sup> / <sub>-0.0007</sub>	2.398				
	<b>NQF2-3/4</b>	2.750 <sup>+0</sup> / <sub>-0.0007</sub>	2.711				



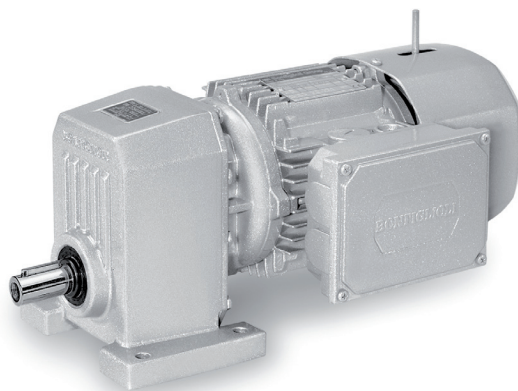
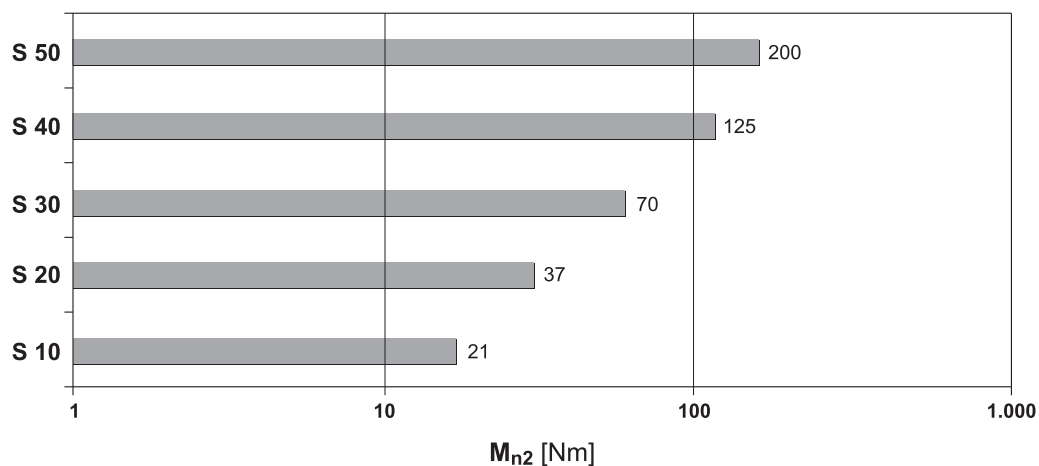
## REDUTORES MONOESTÁGIO SÉRIE S

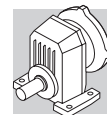
### 62 CARACTERÍSTICAS DE PROJETO

As principais características de projeto são:

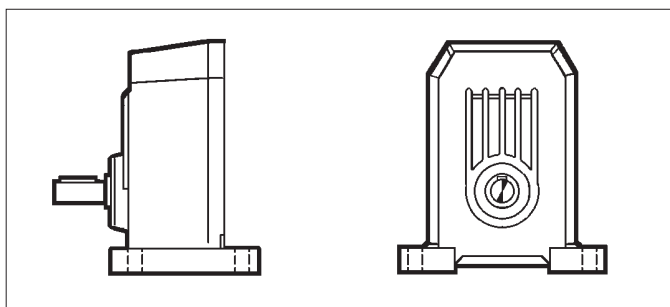
- modularidade
- eficiência de espaço
- montagem universal
- alta eficiência
- operação silenciosa
- engrenagens em aço temperado e aço cementado
- caixa de alumínio bruto para os tamanhos 10, 20, 30, sem pintura
- caixas em ferro fundido de alta resistência pintadas para tamanhos de quadro maiores
- eixos de entrada e saída feitos com aço de alta qualidade.

(E 62)





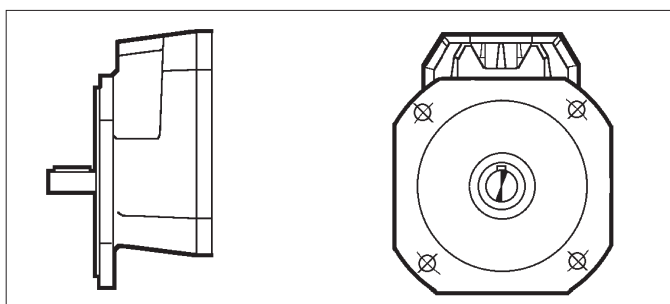
63 VERSÕES



**P**

Montagem com pés

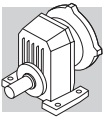
S 10 ... S 50



**F**

Montagem com pés

S 10 ... S 50



# 64 DESIGNAÇÃO

## REDUTORES

**S**

**10**

**1**

**P**

**1.4**

**S1**

**B3**

.....

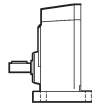
OPÇÕES

POSIÇÃO DE MONTAGEM

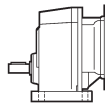
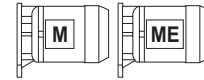
S...P: **B3** (Padrão), **B6**, **B7**, **B8**, **V5**, **V6**

S...F: **B5** (Padrão), **B51**, **B52**, **B53**, **V1**, **V3**

CONFIGURAÇÃO DE ENTRADA

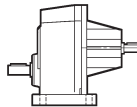
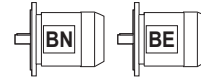


**S05 ... S5**



**IEC\_**

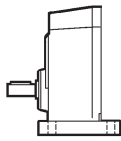
**P63 ... P180**



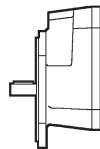
**HS**

RELAÇÃO DE TRANSMISSÃO

VERSÃO



**P**



**F**

REDUÇÕES

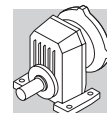
**1**

TAMANHO DO QUADRO DE ENGRENAGEM

**10, 20, 30, 40, 50**

TIPO:

**S** = monoestágio



MOTOR

FREIO

**M 1LA 4 230/400-50 IP54 CLF ..... W FD 7.5 R SB 220 SA .....**

OPÇÕES

ALIMENTAÇÃO DO FREIO

TIPO DE RETIFICADOR AC/DC  
**NB, SB, NBR, SBR**

LIBERAÇÃO MANUAL DO FREIO  
**R, RM**

TORQUE DE FRENAGEM

TIPO DE FREIO  
**FD** (freio d.c.)  
**FA** (freio a.c.)

POSIÇÃO DA CAIXA DE TERMINAIS  
**W** (padrão), **N, E, S**

MONTAGEM DO MOTOR  
— (motor compacto)  
**B5** (motor - IEC)

CLASSE DE ISOLAMENTO  
**CL F** padrão  
**CL H** opção

GRAU DE PROTEÇÃO  
**IP55** padrão (IP54 - freio motor)

TENSÃO - FREQUÊNCIA

NÚMERO DE POLOS  
**2, 4, 6, 2/4, 2/6, 2/8, 2/12, 4/6, 4/8**

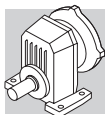
TAMANHO DO MOTOR  
**0B ... 5LA** (motor compacto)  
**63A ... 280M** (motor IEC)

TIPO DE MOTOR

**ME** = trifásico compacto, classe IE2  
**BE** = IEC trifásico, classe IE2

**M** = trifásico compacto  
**BN** = trifásico IEC





## 64.1 Opções de redutor

### SO

Os redutores S10, S20, S30, S40, geralmente preenchidos com óleo pela fábrica, são fornecidos sem lubrificação.

### LO

O redutor S50, geralmente fornecido sem óleo, deve ser preenchido com o óleo sintético atualmente usado pela BONFIGLIOLI REDUTORES de acordo com a posição de montagem especificada.

### DV

Retentores de óleo duplos no eixo de entrada. (Disponíveis apenas para redutores compactos).

### VV

Retentor de óleo em fluorelastômero no eixo de entrada.

### PV

Todos os retentores de óleo em fluorelastômero.

## PROTEÇÃO DE SUPERFÍCIE

Quando nenhuma classe de proteção específica for exigida, as superfícies (ferrosas) pintadas dos redutores serão protegidas de acordo com a classe de corrosividade C2 (UNI EN ISO 12944-2). Para aumentar a resistência contra corrosão atmosférica, os redutores podem ser fornecidos com proteções superficiais **C3** e **C4** obtidas pintando-se o redutor inteiro.

(E 63)

PROTEÇÃO DE SUPERFÍCIE	Ambientes típicos	Temperatura máxima de superfície	Classe corrosividade conforme com UNI EN ISO 12944-2
<b>C3</b>	Ambientes urbanos e industriais com até 100% de umidade relativa (poluição do ar média)	120°C	C3
<b>C4</b>	Áreas industriais, áreas costeiras, fábrica de produtos químicos, com até 100% de umidade relativa do ar (poluição do ar elevado)	120°C	C4

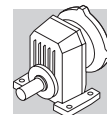
Redutores com proteção opcional para classe **C3** ou **C4** estão disponíveis em diversas cores.

Se nenhuma cor específica for solicitada (ver a opção "PINTURA"), os redutores serão acabados na cor RAL 7042.

Os redutores também podem ser fornecidos com proteção de superfície para corrosividade classe **C5** de acordo com a norma UNI EN ISO 12944-2. Entre em contato com a nossa Assistência Técnica para mais detalhes.

## PINTURA

Redutores com proteção opcional para classe C3 ou C4 estão disponíveis nas cores descritas na tabela abaixo.



(E 64)

PINTURA	Cor	número RAL
<b>RAL7042*</b>	Cinza Tráfego A	7042
<b>RAL5010</b>	Azul Genciano	5010
<b>RAL9005</b>	Preto de Jato	9005
<b>RAL9006</b>	Alumínio Branco	9006
<b>RAL9010</b>	Branco Puro	9010

\* Se nenhuma cor específica for solicitada os redutores serão acabados na cor RAL 7042.

NOTA – Opções de “PINTURA” também podem ser especificadas em conjunto com as opções de “PROTEÇÃO DE SUPERFÍCIE”.

## CERTIFICADOS

### AC - Certificado de Conformidade

O documento certifica a conformidade do produto com a ordem de compra e a construção em conformidade com os procedimentos aplicáveis do Sistema de Qualidade da Bonfiglioli.

### CC - Certificado de Inspeção

O documento implica a verificação do cumprimento do pedido, a inspeção visual das condições externas e das dimensões de acoplamento. A verificação dos principais parâmetros funcionais na condição descarregado também é feita juntamente com a vedação do óleo, tanto na condição estática como na condição de funcionamento. As unidades inspecionadas são amostradas dentro do lote de transporte e marcadas individualmente.

## 64.2 Opções de motor

### AA, AC, AD

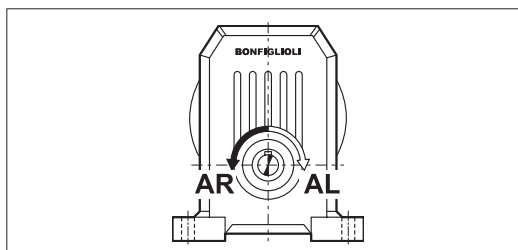
Posição mútua da alavanca de liberação do freio e caixa de terminais. Visualização pelo lado da ventoinha.

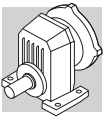
Posição padrão = 90° no sentido horário. AA = 0°, AC = 180°, AD = 90° no sentido anti-horário.

### AL, AR

Um dispositivo contrarrecuo instalado no próprio motor, conforme descrição na seção “Motores Elétricos” deste catálogo, está disponível para redutores com motores integrais Série M ou ME. A tabela abaixo mostra o sentido de rotação livre do redutor, com base no qual a opção correta deve ser selecionada.

(E 65)





## U2

Ventilação forçada com alimentação separada, sem caixa de terminais. Cabos com fios já instalados. A configuração não é compatível com as opções PS e CUS. Disponível nos motores: BN 71, BE 80 ... BE 132, M1, ME2 ... ME4.

Para mais informações sobre opções, consulte a seção “Motores Elétricos”.

## 65 LUBRIFICAÇÃO

As peças internas dos redutores Bonfiglioli são banhadas em óleo e lubrificadas por meio de borrifo. Quadros tamanhos S10, S20, S30 e S40 são fornecidos pela fábrica ou pelos revendedores autorizados já preenchidos com óleo.

Salvo especificado de outro modo, unidades tamanho S50 ou maior são geralmente fornecidas sem lubrificação uma vez que o cliente é responsável pelo abastecimento de óleo antes de colocá-las em operação. Em ambos os casos, dependendo da versão, antes de colocar o redutor em operação poderá ser necessário substituir o bujão fechado usado para fins de transporte por um bujão de respiro fornecido com o produto.

Para tabelas de referência colocação de bujões de óleo e quantidade de lubrificante, consulte o Manual de Instalação, Operação e Manutenção (disponível no site: [www.bonfiglioli.com](http://www.bonfiglioli.com)).

O lubrificante de “longa duração” à base de poliglicol fornecido pela fábrica, se não estiver contaminado, não requer trocas de óleo periódicas durante a vida útil do redutor.

A operação dos redutores é permitida a temperaturas ambiente entre  $-20^{\circ}\text{C}$  e  $+40^{\circ}\text{C}$ . Entretanto, para temperaturas entre  $-20^{\circ}\text{C}$  e  $-10^{\circ}\text{C}$ , a unidade só poderá ser iniciada depois de ter sido gradual e uniformemente pré-aquecida ou inicialmente operada sem carga.

A carga poderá então ser conectada ao eixo de saída quando o redutor tiver atingido a temperatura de  $-10^{\circ}\text{C}$ , ou superior.

## 66 POSIÇÃO DE MONTAGEM E LOCALIZAÇÃO ANGULAR DA CAIXA DE TERMINAIS

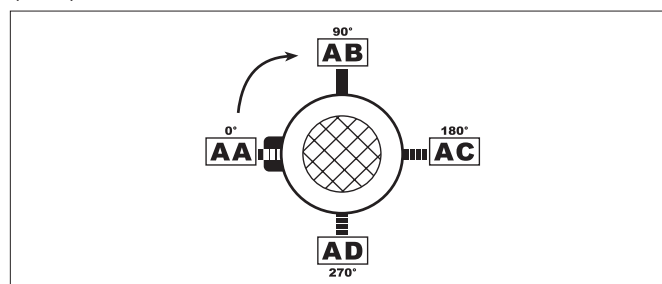
A localização da caixa de terminais do motor pode ser especificada visualizando o motor pelo lado da ventoinha; a localização padrão é mostrada em preto (W).

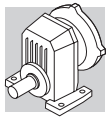
### Posição angular da alavanca de liberação do freio.

Salvo especificado de outro modo, motores com freio têm o lado do dispositivo manual localizado a um ângulo de  $90^{\circ}$  da caixa de terminais.

Ângulos diferentes podem ser especificados utilizando as opções pertinentes disponíveis.

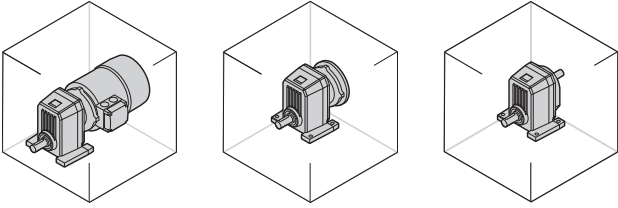
(E 66)





# S ... P

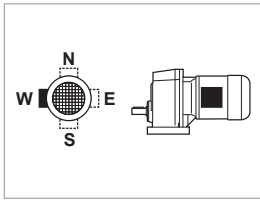
## B3



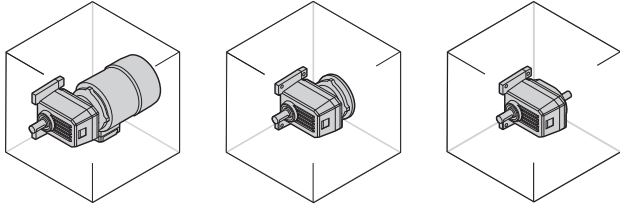
\_S

\_P(IEC)

\_HS



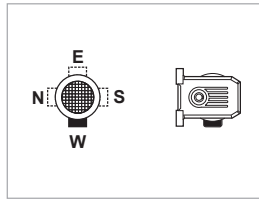
## B6



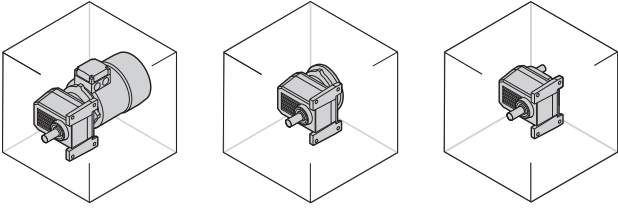
\_S

\_P(IEC)

\_HS



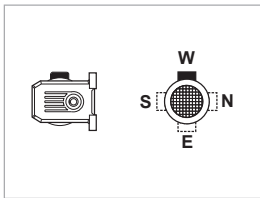
## B7



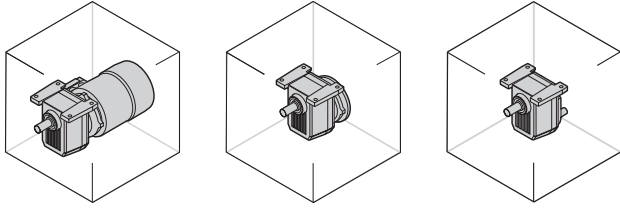
\_S

\_P(IEC)

\_HS



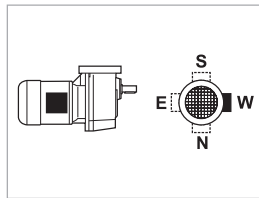
## B8



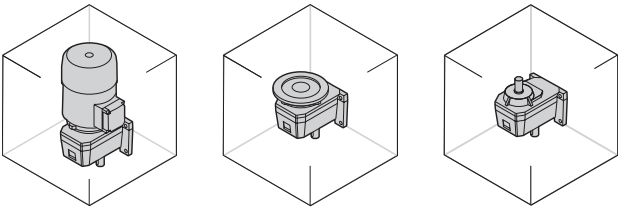
\_S

\_P(IEC)

\_HS



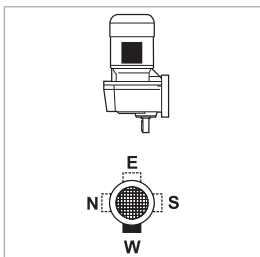
## V5



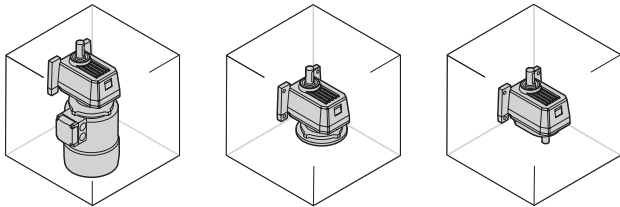
\_S

\_P(IEC)

\_HS



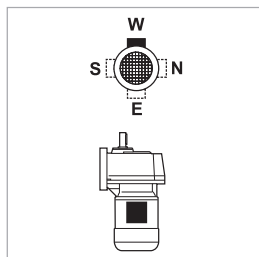
## V6



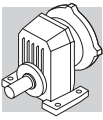
\_S

\_P(IEC)

\_HS

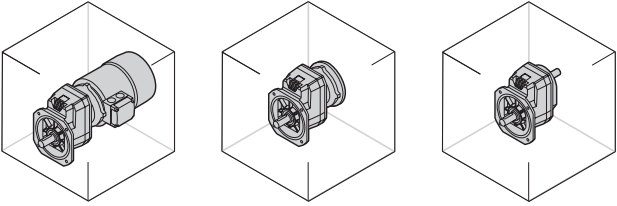


W = Default



# S ... F

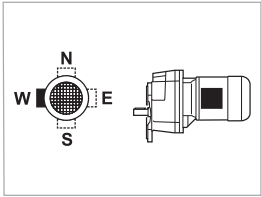
## B5



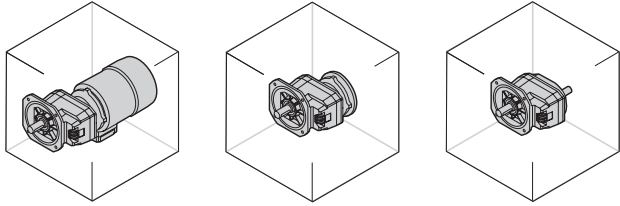
\_S

\_P(IEC)

\_HS



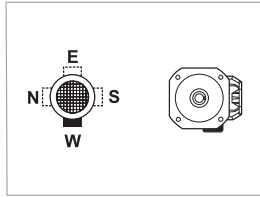
## B51



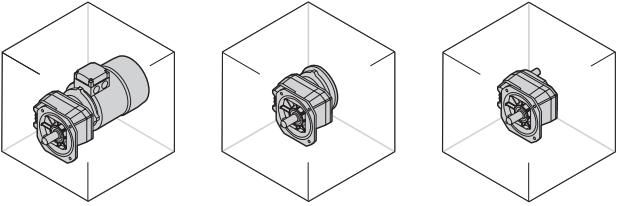
\_S

\_P(IEC)

\_HS



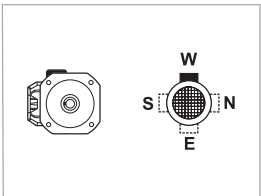
## B53



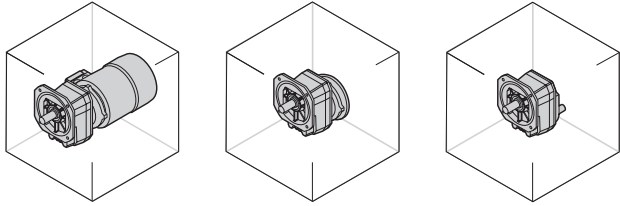
\_S

\_P(IEC)

\_HS



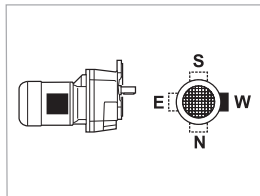
## B52



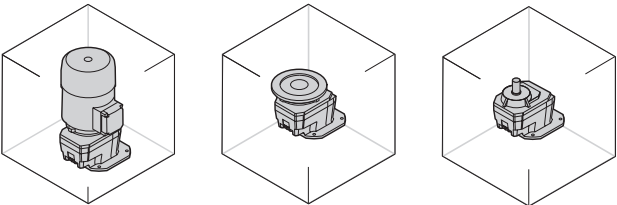
\_S

\_P(IEC)

\_HS



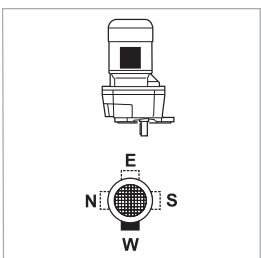
## V1



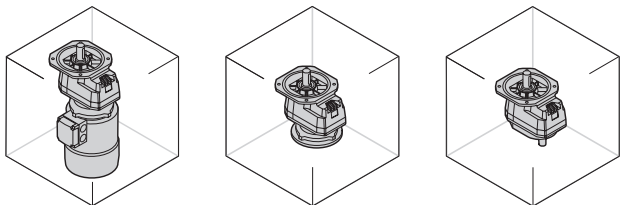
\_S

\_P(IEC)

\_HS



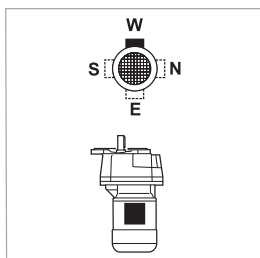
## V3



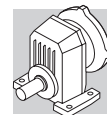
\_S

\_P(IEC)

\_HS



W = Default



## 67 CARGAS RADIAIS

Transmissões externas chaveadas no eixo de entrada e/ou saída geram cargas que atuam radialmente sobre o mesmo eixo.

A carga resultante sobre o eixo deve ser compatível com a capacidade do rolamento e do eixo. A saber, a carga sobre o eixo ( $R_{c1}$  para o eixo de entrada,  $R_{c2}$  para o eixo de saída) deve ser igual ou menor que a capacidade de carga radial permitida para o eixo em estudo ( $R_{n1}$  para o eixo de entrada,  $R_{n2}$  para o eixo de saída). Capacidade OHL informada na tabela de classificação.

Nas fórmulas apresentadas abaixo, o índice (1) refere-se aos parâmetros do eixo de entrada, enquanto o índice (2) refere-se ao eixo de saída.

A carga gerada por uma transmissão externa pode ser calculada de forma bastante aproximada com as seguintes equações:

$$R_{c1} [N] = \frac{2000 \cdot M_1 [Nm] \cdot K_r}{d [mm]} \quad ; \quad R_{c2} [N] = \frac{2000 \cdot M_2 [Nm] \cdot K_r}{d [mm]} \quad (44)$$

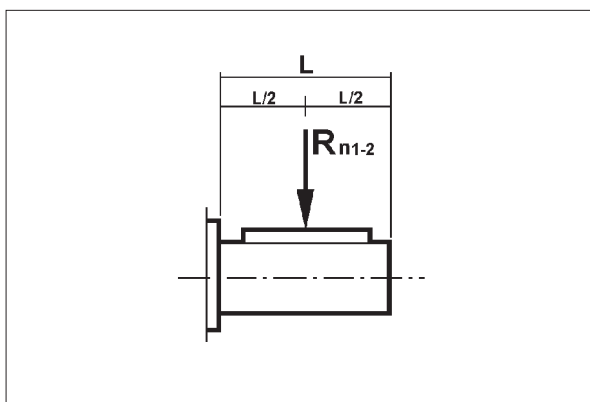
(E 67)

$M_1$ [Nm]	Torque aplicado ao eixo de entrada
$M_2$ [Nm]	Torque produzido no eixo de saída
$d$ [mm]	Diâmetro primitivo do elemento chaveado no eixo
$K_r = 1$	Transmissão por corrente

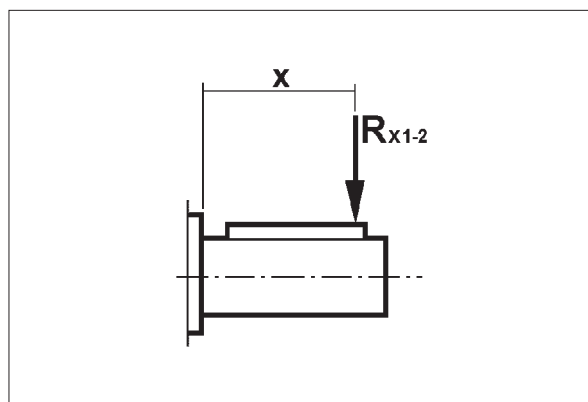
$K_r = 1,25$	Transmissão por engrenagem
$K_r = 1,5$	Transmissão por correia tipo V
$K_r = 2,0$	Transmissão por correia plana

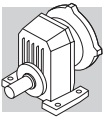
A verificação da capacidade OHL varia dependendo de se a carga é aplicada no ponto médio do eixo ou se ela é deslocada para a ponta:

(E 68)



(E 69)





### a) Carga aplicada no ponto médio do eixo, guia. (E65)

Uma comparação de carga sobre o eixo com as classificações do catálogo OHL deve verificar a seguinte condição:

$$R_{c1} \leq R_{n1} \text{ [eixo de entrada]}$$

ou

$$R_{c2} \leq R_{n2} \text{ [eixo de saída]}$$

### b) Carga fora da guia de ponto médio. (E66)

Quando a carga é deslocada a uma distância “x” do batente mecânico do eixo, a carga permitida deve ser calculada para essa distância.

Cargas radiais permitidas revisadas  $R_{x1}$  (entrada) e  $R_{x2}$  (saída) são calculadas respectivamente a partir dos valores nominais originais  $R_{n1}$  e  $R_{n2}$  com o fator:

$$\frac{a}{b+x} \quad (45)$$

(E 70)

	Fatores de localização de carga [mm]					
	Eixo de saída			Eixo de entrada		
	a	b	c	a	b	c
<b>S 10 1</b>	61	46	200	21	1	300
<b>S 20 1</b>	73.5	53.5	270	40	20	350
<b>S 30 1</b>	91.5	66.5	380	38.5	18.5	350
<b>S 40 1</b>	126.5	96.5	600	49.5	24.5	450
<b>S 50 1</b>	153.5	113.5	680	49.5	24.5	450

O procedimento de verificação é descrito abaixo.

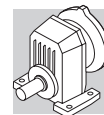
### EIXO DE ENTRADA

1. Calcular:

$$R_{x1} = R_{n1} \cdot \frac{a}{b+x} \quad (46)$$

OBS: Sujeito à condição:

$$\frac{L}{2} \leq x \leq c \quad (47)$$



Por fim, a condição abaixo deve ser verificada:

$$R_{c1} \leq R_{x1} \quad (48)$$

## EIXO DE SAÍDA

1. Calcular:

$$R_{x2} = R_{n2} \cdot \frac{a}{b+x} \quad (49)$$

OBS: Sujeito à condição:

$$\frac{L}{2} \leq x \leq c \quad (50)$$

Por fim, a condição abaixo deve ser verificada:

$$R_{c2} \leq R_{x2} \quad (51)$$

## 68 CARGAS AXIAIS, $A_{n1}$ , $A_{n2}$

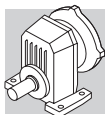
As cargas axiais permitidas nos eixos de entrada [ $A_{n1}$ ] e de saída [ $A_{n2}$ ] são obtidas a partir da carga radial do eixo em consideração [ $R_{n1}$ ] e [ $R_{n2}$ ] por meio da seguinte equação:

$$\begin{aligned} A_{n1} &= R_{n1} \cdot 0.2 \\ A_{n2} &= R_{n2} \cdot 0.2 \end{aligned} \quad (52)$$

As cargas axiais calculadas com estas fórmulas aplicam-se às forças axiais ocorridas ao mesmo tempo que as cargas radiais nominais.

No único caso que nenhuma carga radial atue sobre o eixo, o valor da carga axial permitida [ $A_n$ ] equivale a 50% de OHL nominal [ $R_n$ ] sobre o mesmo eixo. Quando as cargas axiais excederem o valor permitido ou prevalecerem em grande parte sobre as cargas radiais, entre em contato com a Bonfiglioli Redutores para uma análise detalhada da aplicação.









## 69 TABELAS DE CLASSIFICAÇÃO DE MOTOREDUTORES



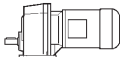



A seleção de motores sem freio leva em consideração os requisitos da Norma EC 640/2009 (ver a seção **M** deste catálogo). Quando a potência nominal do motor for maior que 0,75kW, motores BN/M podem ser fornecidos.

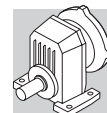
Considerando que a Norma EC 640/2009 não é aplicável aos motores equipados com freio, a escolha do motofreio leva em consideração apenas motores BN/M, sem considerar a potência nominal. Moto-freios BE e ME estão disponíveis mediante solicitação.

### 0.12 kW





$n_2$ rpm	$M_2$ Nm	S	i	$R_{n2}$ N			 IEC	
136	8	1.9	12.4	1371	S201_12.4 S05 M05A4	628	S201_12.4 P63 BN63A4	629
137	8	1.7	12.3	911	S101_12.3 S05 M05A4	626	S101_12.3 P63 BN63A4	627
157	7	2.2	10.8	1371	S201_10.8 S05 M05A4	628	S201_10.8 P63 BN63A4	629
164	7	2.0	10.3	875	S101_10.3 S05 M05A4	626	S101_10.3 P63 BN63A4	627
190	6	2.3	8.9	838	S101_8.9 S05 M05A4	626	S101_8.9 P63 BN63A4	627
199	6	2.8	8.5	1371	S201_8.5 S05 M05A4	628	S201_8.5 P63 BN63A4	629
245	5	3.0	6.9	783	S101_6.9 S05 M05A4	626	S101_6.9 P63 BN63A4	627

### 0.18 kW





$n_2$ rpm	$M_2$ Nm	S	i	$R_{n2}$ N			 IEC	
127	14	2.0	13.1	2201			S301_13.1 P63 BN63B4	631
134	13	1.2	12.4	1371	S201_12.4 S05 M05B4	628	S201_12.4 P63 BN63B4	629
135	13	1.1	12.3	911	S101_12.3 S05 M05B4	626	S101_12.3 P63 BN63B4	627
155	11	1.4	10.8	1371	S201_10.8 S05 M05B4	628	S201_10.8 P63 BN63B4	629
162	11	2.6	10.3	2137			S301_10.3 P63 BN63B4	631
162	11	1.3	10.3	929	S101_10.3 S05 M05B4	626	S101_10.3 P63 BN63B4	627
188	9	3.0	8.9	2045			S301_8.9 P63 BN63B4	631
188	9	1.5	8.9	802	S101_8.9 S05 M05B4	626	S101_8.9 P63 BN63B4	627
196	9	1.8	8.5	1371	S201_8.5 S05 M05B4	628	S201_8.5 P63 BN63B4	629
242	7	1.9	6.9	747	S101_6.9 S05 M05B4	626	S101_6.9 P63 BN63B4	627
273	6	2.2	6.1	729	S101_6.1 S05 M05B4	626	S101_6.1 P63 BN63B4	627
353	5	2.2	4.7	683	S101_4.7 S05 M05B4	626	S101_4.7 P63 BN63B4	627
434	4	2.8	3.8	638	S101_3.8 S05 M05B4	626	S101_3.8 P63 BN63B4	627

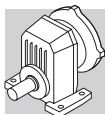


## 0.25 kW





$n_2$ rpm	$M_2$ Nm	S	i	$R_{n2}$ N				
127	18	1.5	13.1	2201			S301_13.1 P71 BN71A4	631
134	17	0.9	12.4	1280	S201_12.4 S05 M05C4	628	S201_12.4 P71 BN71A4	629
135	17	2.7	12.4	3458	S401_12.4 S05 M05C4	632	S401_12.4 P71 BN71A4	633
155	15	1.1	10.8	1371	S201_10.8 S05 M05C4	628	S201_10.8 P71 BN71A4	629
162	14	2.0	10.3	2109			S301_10.3 P71 BN71A4	631
162	14	1.0	10.3	820	S101_10.3 S05 M05C4	626	S101_10.3 P71 BN71A4	627
188	12	2.3	8.9	2017			S301_8.9 P71 BN71A4	631
188	12	1.1	8.9	802	S101_8.9 S05 M05C4	626	S101_8.9 P71 BN71A4	627
196	12	1.3	8.5	1371	S201_8.5 S05 M05C4	628	S201_8.5 P71 BN71A4	629
231	10	2.4	7.2	1371	S201_7.2 S05 M05C4	628	S201_7.2 P71 BN71A4	629
242	9	1.5	6.9	711	S101_6.9 S05 M05C4	626	S101_6.9 P71 BN71A4	627
273	8	1.6	6.1	701	S101_6.1 S05 M05C4	626	S101_6.1 P71 BN71A4	627
287	8	3.0	5.8	1307	S201_5.8 S05 M05C4	628	S201_5.8 P71 BN71A4	629
353	6	1.7	4.7	656	S101_4.7 S05 M05C4	626	S101_4.7 P71 BN71A4	627
434	5	2.1	3.8	619	S101_3.8 S05 M05C4	626	S101_3.8 P71 BN71A4	627
522	4	2.5	3.2	592	S101_3.2 S05 M05C4	626	S101_3.2 P71 BN71A4	627
668	3	2.7	2.5	556	S101_2.5 S05 M05C4	626	S101_2.5 P71 BN71A4	627

## 0.37 kW

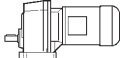



$n_2$ rpm	$M_2$ Nm	S	i	$R_{n2}$ N				
130	27	1.0	13.1	2192			S301_13.1 P71 BN71B4	631
137	25	1.8	12.4	3458	S401_12.4 S1 M1SD4	632	S401_12.4 P71 BN71B4	633
159	22	2.1	10.7	3458	S401_10.7 S1 M1SD4	632	S401_10.7 P71 BN71B4	633
165	21	1.3	10.3	2054	S301_10.3 S1 M1SD4	630	S301_10.3 P71 BN71B4	631
191	18	1.5	8.9	1972	S301_8.9 S1 M1SD4	630	S301_8.9 P71 BN71B4	631
197	18	2.6	8.6	3285	S401_8.6 S1 M1SD4	632	S401_8.6 P71 BN71B4	633
235	15	1.6	7.2	1334	S201_7.2 S1 M1SD4	628	S201_7.2 P71 BN71B4	629
246	14	1.0	6.9	674	S101_6.9 S1 M1SD4	626	S101_6.9 P71 BN71B4	627
278	13	1.1	6.1	647	S101_6.1 S1 M1SD4	626	S101_6.1 P71 BN71B4	627
292	12	2.0	5.8	1270	S201_5.8 S1 M1SD4	628	S201_5.8 P71 BN71B4	629
356	10	2.4	4.8	1197	S201_4.8 S1 M1SD4	628	S201_4.8 P71 BN71B4	629
360	10	1.1	4.7	610	S101_4.7 S1 M1SD4	626	S101_4.7 P71 BN71B4	627
432	8	3.0	3.9	1133	S201_3.9 S1 M1SD4	628	S201_3.9 P71 BN71B4	629
442	8	1.4	3.8	583	S101_3.8 S1 M1SD4	626	S101_3.8 P71 BN71B4	627
531	7	1.7	3.2	565	S101_3.2 S1 M1SD4	626	S101_3.2 P71 BN71B4	627
680	5	1.8	2.5	528	S101_2.5 S1 M1SD4	626	S101_2.5 P71 BN71B4	627
907	4	2.4	1.9	492	S101_1.9 S1 M1SD4	626	S101_1.9 P71 BN71B4	627

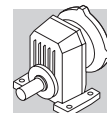


## 0.55 kW

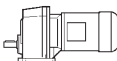



n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
133	39	2.3	12.9	5071	S501_12.9 S1 M1LA4	634	S501_12.9 P80 BN80A4	635
138	38	1.2	12.4	3458	S401_12.4 S1 M1LA4	632	S401_12.4 P80 BN80A4	633
160	33	1.4	10.7	3431	S401_10.7 S1 M1LA4	632	S401_10.7 P80 BN80A4	633
164	32	2.9	10.5	4761	S501_10.5 S1 M1LA4	634	S501_10.5 P80 BN80A4	635
192	27	1.0	8.9	1889	S301_8.9 S1 M1LA4	630	S301_8.9 P80 BN80A4	631
198	26	1.8	8.6	3221	S401_8.6 S1 M1LA4	632	S401_8.6 P80 BN80A4	633
237	22	1.1	7.2	1252	S201_7.2 S1 M1LA4	628	S201_7.2 P80 BN80A4	629
241	22	2.1	7.1	1779	S301_7.1 S1 M1LA4	630	S301_7.1 P80 BN80A4	631
293	18	2.6	5.8	1687	S301_5.8 S1 M1LA4	630	S301_5.8 P80 BN80A4	631
294	18	1.3	5.8	1197	S201_5.8 S1 M1LA4	628	S201_5.8 P80 BN80A4	629
359	15	1.6	4.8	1143	S201_4.8 S1 M1LA4	628	S201_4.8 P80 BN80A4	629
435	12	2.0	3.9	1088	S201_3.9 S1 M1LA4	628	S201_3.9 P80 BN80A4	629
445	12	0.9	3.8	501	S101_3.8 S1 M1LA4	626	S101_3.8 P80 BN80A4	627
534	10	1.1	3.2	510	S101_3.2 S1 M1LA4	626	S101_3.2 P80 BN80A4	627
550	10	2.5	3.1	1024	S201_3.1 S1 M1LA4	628	S201_3.1 P80 BN80A4	629
684	8	1.2	2.5	492	S101_2.5 S1 M1LA4	626	S101_2.5 P80 BN80A4	627
903	6	2.7	1.9	887	S201_1.9 S1 M1LA4	628	S201_1.9 P80 BN80A4	629
912	6	1.6	1.9	456	S101_1.9 S1 M1LA4	626	S101_1.9 P80 BN80A4	627
1203	4	2.1	1.4	428	S101_1.4 S1 M1LA4	626	S101_1.4 P80 BN80A4	627

## 0.75 kW

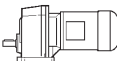



n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
135	52	1.8	12.9	4980	S501_12.9 S2 ME2SB4	634	S501_12.9 P80 BE80B4	635
141	50	0.9	12.4	3185	S401_12.4 S2 ME2SB4	632	S401_12.4 P80 BE80B4	633
164	43	1.1	10.7	3340	S401_10.7 S2 ME2SB4	632	S401_10.7 P80 BE80B4	633
167	42	2.2	10.5	4679	S501_10.5 S2 ME2SB4	634	S501_10.5 P80 BE80B4	635
199	35	2.6	8.8	4441	S501_8.8 S2 ME2SB4	634	S501_8.8 P80 BE80B4	635
202	35	1.3	8.6	3149	S401_8.6 S2 ME2SB4	632	S401_8.6 P80 BE80B4	633
244	29	2.6	7.2	2985	S401_7.2 S2 ME2SB4	632	S401_7.2 P80 BE80B4	633
246	28	1.6	7.1	1706	S301_7.1 S2 ME2SB4	630	S301_7.1 P80 BE80B4	631
298	23	2.0	5.8	1632	S301_5.8 S2 ME2SB4	630	S301_5.8 P80 BE80B4	631
300	23	1.0	5.8	1097	S201_5.8 S2 ME2SB4	628	S201_5.8 P80 BE80B4	629
354	20	2.3	4.9	1559	S301_4.9 S2 ME2SB4	630	S301_4.9 P80 BE80B4	631
366	19	1.2	4.8	1079	S201_4.8 S2 ME2SB4	628	S201_4.8 P80 BE80B4	629
442	16	2.9	3.9	1467	S301_3.9 S2 ME2SB4	630	S301_3.9 P80 BE80B4	631
444	16	1.5	3.9	1033	S201_3.9 S2 ME2SB4	628	S201_3.9 P80 BE80B4	629
561	13	1.9	3.1	978	S201_3.1 S2 ME2SB4	628	S201_3.1 P80 BE80B4	629
698	10	0.9	2.5	428	S101_2.5 S2 ME2SB4	626	S101_2.5 P80 BE80B4	627
716	10	2.4	2.4	923	S201_2.4 S2 ME2SB4	628	S201_2.4 P80 BE80B4	629
921	8	2.1	1.9	859	S201_1.9 S2 ME2SB4	628	S201_1.9 P80 BE80B4	629
931	8	1.2	1.9	419	S101_1.9 S2 ME2SB4	626	S101_1.9 P80 BE80B4	627



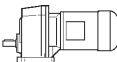



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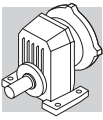
n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
1228	6	1.6	1.4	401	S101_1.4 S2 ME2SB4	626	S101_1.4 P80 BE80B4	627
1254	6	2.8	1.4	786	S201_1.4 S2 ME2SB4	628	S201_1.4 P80 BE80B4	629

## 1.1 kW





n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
135	76	1.2	12.9	4852	S501_12.9 S3 ME3SA4	634	S501_12.9 P90 BE90S4	635
166	61	1.5	10.5	4578	S501_10.5 S3 ME3SA4	634	S501_10.5 P90 BE90S4	635
198	52	1.8	8.8	4350	S501_8.8 S3 ME3SA4	634	S501_8.8 P90 BE90S4	635
201	51	0.9	8.6	3049	S401_8.6 S3 ME3SA4	632	S401_8.6 P90 BE90S4	633
235	44	2.7	7.4	4131	S501_7.4 S3 ME3SA4	634	S501_7.4 P90 BE90S4	635
243	42	1.8	7.2	2894	S401_7.2 S3 ME3SA4	632	S401_7.2 P90 BE90S4	633
245	42	1.1	7.1	1586	S301_7.1 S3 ME3SA4	630	S301_7.1 P90 BE90S4	631
287	36	2.1	6.1	2766	S401_6.1 S3 ME3SA4	632	S401_6.1 P90 BE90S4	633
298	34	1.3	5.8	1531	S301_5.8 S3 ME3SA4	630	S301_5.8 P90 BE90S4	631
353	29	1.6	4.9	1476	S301_4.9 S3 ME3SA4	630	S301_4.9 P90 BE90S4	631
360	28	2.6	4.8	2594	S401_4.8 S3 ME3SA4	632	S401_4.8 P90 BE90S4	633
441	23	2.0	3.9	1403	S301_3.9 S3 ME3SA4	630	S301_3.9 P90 BE90S4	631
442	23	1.0	3.9	914	S201_3.9 S3 ME3SA4	628	S201_3.9 P90 BE90S4	629
559	18	1.3	3.1	905	S201_3.1 S3 ME3SA4	628	S201_3.1 P90 BE90S4	629
568	18	2.6	3.1	1311	S301_3.1 S3 ME3SA4	630	S301_3.1 P90 BE90S4	631
714	14	1.7	2.4	859	S201_2.4 S3 ME3SA4	628	S201_2.4 P90 BE90S4	629
918	11	1.4	1.9	813	S201_1.9 S3 ME3SA4	628	S201_1.9 P90 BE90S4	629
953	11	2.6	1.8	1137	S301_1.8 S3 ME3SA4	630	S301_1.8 P90 BE90S4	631
1224	8	1.1	1.4	355	S101_1.4 S3 ME3SA4	626	S101_1.4 P90 BE90S4	627
1251	8	1.9	1.4	749	S201_1.4 S3 ME3SA4	628	S201_1.4 P90 BE90S4	629

## 1.5 kW





n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
166	84	1.1	10.5	4578	S501_10.5 S3 ME3SB4	634	S501_10.5 P90 BE90LA4	635
198	70	1.3	8.8	4350	S501_8.8 S3 ME3SB4	634	S501_8.8 P90 BE90LA4	635
235	59	2.0	7.4	4131	S501_7.4 S3 ME3SB4	634	S501_7.4 P90 BE90LA4	635
243	57	1.3	7.2	2894	S401_7.2 S3 ME3SB4	632	S401_7.2 P90 BE90LA4	633
287	49	1.5	6.1	2766	S401_6.1 S3 ME3SB4	632	S401_6.1 P90 BE90LA4	633
287	49	2.4	6.1	3894	S501_6.1 S3 ME3SB4	634	S501_6.1 P90 BE90LA4	635
298	47	1.0	5.8	1421	S301_5.8 S3 ME3SB4	630	S301_5.8 P90 BE90LA4	631
353	40	1.2	4.9	1476	S301_4.9 S3 ME3SB4	630	S301_4.9 P90 BE90LA4	631
360	39	1.9	4.8	2594	S401_4.8 S3 ME3SB4	632	S401_4.8 P90 BE90LA4	633
441	32	1.4	3.9	1403	S301_3.9 S3 ME3SB4	630	S301_3.9 P90 BE90LA4	631
456	31	2.4	3.8	2412	S401_3.8 S3 ME3SB4	632	S401_3.8 P90 BE90LA4	633



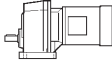



## 1.5 kW

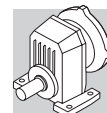
n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
559	25	1.0	3.1	905	S201_3.1 S3 ME3SB4	628	S201_3.1 P90 BE90LA4	629
568	25	1.9	3.1	1311	S301_3.1 S3 ME3SB4	630	S301_3.1 P90 BE90LA4	631
714	20	1.2	2.4	786	S201_2.4 S3 ME3SB4	628	S201_2.4 P90 BE90LA4	629
719	19	2.4	2.4	1467	S301_2.4 S3 ME3SB4	630	S301_2.4 P90 BE90LA4	631
918	15	1.0	1.9	777	S201_1.9 S3 ME3SB4	628	S201_1.9 P90 BE90LA4	629
953	15	1.9	1.8	1403	S301_1.8 S3 ME3SB4	630	S301_1.8 P90 BE90LA4	631
1236	11	2.4	1.4	1330	S301_1.4 S3 ME3SB4	630	S301_1.4 P90 BE90LA4	631
1251	11	1.4	1.4	740	S201_1.4 S3 ME3SB4	628	S201_1.4 P90 BE90LA4	629

## 2.2 kW

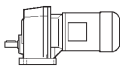



n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
236	87	1.4	7.4	3830	S501_7.4 S3 ME3LA4	634	S501_7.4 P100 BE100LA4	635
288	71	1.0	6.1	2457	S401_6.1 S3 ME3LA4	632	S401_6.1 P100 BE100LA4	633
288	71	1.7	6.1	4104	S501_6.1 S3 ME3LA4	634	S501_6.1 P100 BE100LA4	635
361	57	1.3	4.8	2257	S401_4.8 S3 ME3LA4	632	S401_4.8 P100 BE100LA4	633
367	56	2.1	4.8	4378	S501_4.8 S3 ME3LA4	634	S501_4.8 P100 BE100LA4	635
442	46	1.0	3.9	1220	S301_3.9 S3 ME3LA4	630	S301_3.9 P100 BE100LA4	631
454	45	2.6	3.8	4560	S501_3.8 S3 ME3LA4	634	S501_3.8 P100 BE100LA4	635
458	45	1.7	3.8	2503	S401_3.8 S3 ME3LA4	632	S401_3.8 P100 BE100LA4	633
570	36	1.3	3.1	1174	S301_3.1 S3 ME3LA4	630	S301_3.1 P100 BE100LA4	631
572	36	2.1	3.1	2548	S401_3.1 S3 ME3LA4	632	S401_3.1 P100 BE100LA4	633
721	28	1.6	2.4	1091	S301_2.4 S3 ME3LA4	630	S301_2.4 P100 BE100LA4	631
730	28	2.6	2.4	2002	S401_2.4 S3 ME3LA4	632	S401_2.4 P100 BE100LA4	633
942	22	2.6	1.9	1856	S401_1.9 S3 ME3LA4	632	S401_1.9 P100 BE100LA4	633
956	21	1.3	1.8	1027	S301_1.8 S3 ME3LA4	630	S301_1.8 P100 BE100LA4	631
1240	17	1.7	1.4	963	S301_1.4 S3 ME3LA4	630	S301_1.4 P100 BE100LA4	631
1254	16	1.0	1.4	658	S201_1.4 S3 ME3LA4	628	S201_1.4 P100 BE100LA4	629

## 3 kW

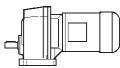



n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N				
234	120	1.0	7.4	3648	S501_7.4 S3 ME3LB4	634	S501_7.4 P100 BE100LB4	635
287	98	1.2	6.1	3539	S501_6.1 S3 ME3LB4	634	S501_6.1 P100 BE100LB4	635
359	78	0.9	4.8	2120	S401_4.8 S3 ME3LB4	632	S401_4.8 P100 BE100LB4	633
365	77	1.6	4.8	3739	S501_4.8 S3 ME3LB4	634	S501_4.8 P100 BE100LB4	635
452	62	1.9	3.8	3922	S501_3.8 S3 ME3LB4	634	S501_3.8 P100 BE100LB4	635
455	62	1.2	3.8	2184	S401_3.8 S3 ME3LB4	632	S401_3.8 P100 BE100LB4	633
567	50	0.9	3.1	1009	S301_3.1 S3 ME3LB4	630	S301_3.1 P100 BE100LB4	631
568	49	1.5	3.1	2230	S401_3.1 S3 ME3LB4	632	S401_3.1 P100 BE100LB4	633
570	49	2.4	3.0	4195	S501_3.0 S3 ME3LB4	634	S501_3.0 P100 BE100LB4	635



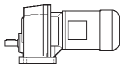



### 3 kW

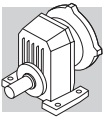
n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			IEC 	
717	39	1.2	2.4	990	S301_2.4 S3 ME3LB4	630	S301_2.4 P100 BE100LB4	631
726	39	1.9	2.4	1929	S401_2.4 S3 ME3LB4	632	S401_2.4 P100 BE100LB4	633
937	30	1.9	1.9	1793	S401_1.9 S3 ME3LB4	632	S401_1.9 P100 BE100LB4	633
950	30	0.9	1.8	917	S301_1.8 S3 ME3LB4	630	S301_1.8 P100 BE100LB4	631
1233	23	1.2	1.4	899	S301_1.4 S3 ME3LB4	630	S301_1.4 P100 BE100LB4	631
1272	22	2.5	1.4	1656	S401_1.4 S3 ME3LB4	632	S401_1.4 P100 BE100LB4	633

### 3.7 kW





n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			IEC 	
287	119	1.0	6.1	3420	S501_6.1 S4 ME4SA4	634	S501_6.1 P112 BE112M4	635
366	93	1.3	4.8	3219	S501_4.8 S4 ME4SA4	634	S501_4.8 P112 BE112M4	635
453	75	1.6	3.8	3064	S501_3.8 S4 ME4SA4	634	S501_3.8 P112 BE112M4	635
456	75	1.0	3.8	2001	S401_3.8 S4 ME4SA4	632	S401_3.8 P112 BE112M4	633
570	60	1.2	3.1	1957	S401_3.1 S4 ME4SA4	632	S401_3.1 P112 BE112M4	633
572	60	2.0	3.0	2891	S501_3.0 S4 ME4SA4	634	S501_3.0 P112 BE112M4	635
719	47	1.0	2.4	917	S301_2.4 S4 ME4SA4	630	S301_2.4 P112 BE112M4	631
723	47	2.5	2.4	2709	S501_2.4 S4 ME4SA4	634	S501_2.4 P112 BE112M4	635
728	47	1.6	2.4	1847	S401_2.4 S4 ME4SA4	632	S401_2.4 P112 BE112M4	633
940	36	1.5	1.9	1820	S401_1.9 S4 ME4SA4	632	S401_1.9 P112 BE112M4	633
973	35	2.6	1.8	2827	S501_1.8 S4 ME4SA4	634	S501_1.8 P112 BE112M4	635
1236	28	1.0	1.4	844	S301_1.4 S4 ME4SA4	630	S301_1.4 P112 BE112M4	631
1276	27	2.1	1.4	1911	S401_1.4 S4 ME4SA4	632	S401_1.4 P112 BE112M4	633

### 5.5 kW

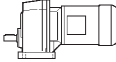



n <sub>2</sub> rpm	M <sub>2</sub> Nm	S	i	R <sub>n2</sub> N			IEC 	
458	113	1.1	3.8	2873	S501_3.8 S4 ME4SB4	634	S501_3.8 P132 BE132S4	635
578	89	1.3	3.0	2736	S501_3.0 S4 ME4SB4	634	S501_3.0 P132 BE132S4	635
731	71	1.7	2.4	2581	S501_2.4 S4 ME4SB4	634	S501_2.4 P132 BE132S4	635
736	70	1.1	2.4	1702	S401_2.4 S4 ME4SB4	632	S401_2.4 P132 BE132S4	633
950	54	1.0	1.9	1611	S401_1.9 S4 ME4SB4	632	S401_1.9 P132 BE132S4	633
984	53	1.7	1.8	2380	S501_1.8 S4 ME4SB4	634	S501_1.8 P132 BE132S4	635
1239	42	2.2	1.4	2234	S501_1.4 S4 ME4SB4	634	S501_1.4 P132 BE132S4	635
1291	40	1.4	1.4	1511	S401_1.4 S4 ME4SB4	632	S401_1.4 P132 BE132S4	633







## 7.5 kW

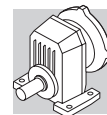
<b>n<sub>2</sub></b> rpm	<b>M<sub>2</sub></b> Nm	<b>S</b>	<b>i</b>	<b>R<sub>n2</sub></b> N				
578	122	1.0	3.0	2563	S501_3.0 S4 ME4LA4	634	S501_3.0 P132 BE132MA4	635
731	97	1.2	2.4	2435	S501_2.4 S4 ME4LA4	634	S501_2.4 P132 BE132MA4	635
984	72	1.3	1.8	2271	S501_1.8 S4 ME4LA4	634	S501_1.8 P132 BE132MA4	635
1239	57	1.6	1.4	2143	S501_1.4 S4 ME4LA4	634	S501_1.4 P132 BE132MA4	635
1291	55	1.0	1.4	1401	S401_1.4 S4 ME4LA4	632	S401_1.4 P132 BE132MA4	633



## 9.2 kW

<b>n<sub>2</sub></b> rpm	<b>M<sub>2</sub></b> Nm	<b>S</b>	<b>i</b>	<b>R<sub>n2</sub></b> N				
731	118	1.0	2.4	2143	S501_2.4 S4 ME4LB4	634	S501_2.4 P132 BE132MB4	635
984	88	1.0	1.8	2180	S501_1.8 S4 ME4LB4	634	S501_1.8 P132 BE132MB4	635
1239	70	1.3	1.4	2070	S501_1.4 S4 ME4LB4	634	S501_1.4 P132 BE132MB4	635



## 11 kW

<b>n<sub>2</sub></b> rpm	<b>M<sub>2</sub></b> Nm	<b>S</b>	<b>i</b>	<b>R<sub>n2</sub></b> N				
1242	84	1.1	1.4	1961	S501_1.4 S5 ME5SA4	634	S501_1.4 P160 BE160M4	635

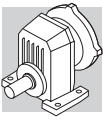

**70 TABELAS DE CLASSIFICAÇÃO DE REDUTORES**
**S 10 21 Nm**

	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
S 10 1_1.4	1.4	1286	9	1.3	800	355	857	11	1.0	800	410	487
S 10 1_1.9	1.9	947	9	0.93	800	419	632	11	0.71	800	483	
S 10 1_2.5	2.5	720	9	0.71	800	474	480	11	0.54	800	547	
S 10 1_3.2	3.2	563	11	0.66	800	510	375	13	0.51	800	589	
S 10 1_3.8	3.8	474	11	0.56	800	556	316	13	0.43	800	641	
S 10 1_4.7	4.7	383	11	0.45	800	601	255	13	0.34	800	694	
S 10 1_6.1	6.1	295	14	0.43	800	647	197	16	0.33	800	746	
S 10 1_6.9	6.9	261	14	0.38	800	674	174	16	0.29	800	778	
S 10 1_8.9	8.9	202	9	0.20	800	802	135	11	0.15	800	925	
S 10 1_10.3	10.3	175	9	0.17	800	847	117	11	0.13	800	977	
S 10 1_12.3	12.3	146	9	0.14	800	911	98	11	0.11	800	1051	

**S 20 37 Nm**



	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
S 20 1_1.4	1.4	1286	16	2.1	1000	676	857	18	1.6	1000	778	487
S 20 1_1.9	1.9	947	16	1.6	1000	786	632	18	1.2	1000	904	
S 20 1_2.4	2.4	750	24	1.9	781	786	500	27	1.5	890	904	
S 20 1_3.1	3.1	581	24	1.5	882	868	387	27	1.1	1000	998	
S 20 1_3.9	3.9	462	24	1.18	919	969	308	27	0.90	1000	1114	
S 20 1_4.8	4.8	375	24	0.96	919	1060	250	27	0.73	1000	1219	
S 20 1_5.8	5.8	310	24	0.79	960	1152	207	27	0.60	1000	1324	
S 20 1_7.2	7.2	250	24	0.64	980	1252	167	27	0.49	1000	1440	
S 20 1_8.5	8.5	212	16	0.35	1000	1371	141	18	0.27	1000	1500	
S 20 1_10.8	10.8	167	16	0.28	1000	1371	111	18	0.21	1000	1500	
S 20 1_12.4	12.4	145	16	0.24	1000	1430	97	18	0.18	1000	1500	







## S 30

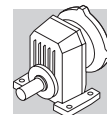
## 70 Nm

	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
S 30 1_1.4	1.4	1286	28	3.8	1500	889	857	32	2.9	1500	1019	489
S 30 1_1.8	1.8	1000	28	2.9	1500	1000	667	32	2.2	1500	1146	
S 30 1_2.4	2.4	750	46	3.7	1386	981	500	53	2.8	1500	1125	
S 30 1_3.1	3.1	581	46	2.9	1470	1100	387	53	2.2	1500	1261	
S 30 1_3.9	3.9	462	46	2.3	1500	1247	308	53	1.7	1500	1429	
S 30 1_4.9	4.9	367	46	1.8	1500	1376	245	53	1.4	1500	1577	
S 30 1_5.8	5.8	310	46	1.5	1500	1476	207	53	1.2	1500	1692	
S 30 1_7.1	7.1	254	46	1.2	1500	1605	169	53	0.95	1500	1839	
S 30 1_8.9	8.9	202	28	0.60	1500	1907	135	32	0.45	1500	2186	
S 30 1_10.3	10.3	175	28	0.51	1500	2008	117	32	0.39	1500	2302	
S 30 1_13.1	13.1	137	28	0.40	1500	2201	92	32	0.31	1500	2400	

## S 40



## 125 Nm

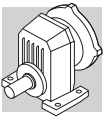
	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
S 40 1_1.4	1.4	1286	56	7.6	2000	1456	857	63	5.7	2000	1688	489
S 40 1_1.9	1.9	947	56	5.6	2000	1665	632	63	4.2	2000	1931	
S 40 1_2.4	2.4	750	83	6.7	1860	1702	500	94	5.0	2000	1973	
S 40 1_3.1	3.1	581	83	5.2	2000	1893	387	94	3.9	2000	2194	
S 40 1_3.8	3.8	474	83	4.2	2000	2084	316	94	3.2	2000	2416	
S 40 1_4.8	4.8	375	83	3.3	2000	2302	250	94	2.5	2000	2669	
S 40 1_6.1	6.1	295	83	2.6	2000	2539	197	94	2.0	2000	2943	
S 40 1_7.2	7.2	250	74	2.0	2000	2757	167	84	1.5	2000	3197	
S 40 1_8.6	8.6	209	56	1.2	2000	3067	140	63	0.94	2000	3555	
S 40 1_10.7	10.7	168	46	0.83	2000	3358	112	52	0.63	2000	3800	
S 40 1_12.4	12.4	145	46	0.72	2000	3458	97	52	0.54	2000	3800	



# S 50

# 200 Nm

	i	n <sub>1</sub> = 1800 rpm					n <sub>1</sub> = 1200 rpm					
		n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	n <sub>2</sub> rpm	M <sub>n2</sub> Nm	P <sub>n1</sub> kW	R <sub>n1</sub> N	R <sub>n2</sub> N	
<b>S 50 1_1.4</b>	1.4	1286	101	13.9	730	1961	857	115	10.6	768	2268	491
<b>S 50 1_1.8</b>	1.8	1000	101	10.8	1220	2189	667	115	8.2	1441	2532	
<b>S 50 1_2.4</b>	2.4	750	119	9.6	930	2408	500	136	7.3	1020	2785	
<b>S 50 1_3.0</b>	3.0	600	128	8.2	902	2627	400	147	6.3	1073	3038	
<b>S 50 1_3.8</b>	3.8	474	138	7.0	760	2855	316	157	5.3	905	3302	
<b>S 50 1_4.8</b>	4.8	375	138	5.5	1025	3119	250	157	4.2	1220	3608	
<b>S 50 1_6.1</b>	6.1	295	119	3.8	2060	3539	197	136	2.9	2400	4093	
<b>S 50 1_7.4</b>	7.4	243	119	3.1	2122	3821	162	136	2.4	2400	4420	
<b>S 50 1_8.8</b>	8.8	205	101	2.2	2400	4168	136	115	1.7	2400	4821	
<b>S 50 1_10.5</b>	10.5	171	101	1.8	2400	4441	114	115	1.4	2400	5138	
<b>S 50 1_12.9</b>	12.9	140	92	1.4	2400	4834	93	100	1.0	2400	5592	

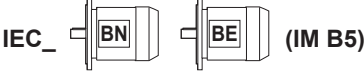


## 71 DISPONIBILIDADE DE MOTOR

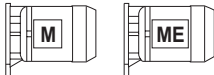
Observe que as combinações de motor e redutor resultantes das tabelas (E68) e (E69) baseiam-se meramente na compatibilidade geométrica.

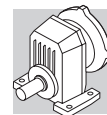
**Ao seleccionar um redutor, consulte o procedimento especificado no parágrafo 11 e observe especificamente a condição  $S \geq f_g$ .**

(E 71)

										
		P63	P71	P80	P90	P100	P112	P132	P160	P180
<b>S 10 1</b>	<b>i =</b>	1.4_12.3	1.4_12.3	1.4_8.9	1.4_8.9	1.4_8.9	1.4_8.9			
<b>S 20 1</b>		1.9_12.4	1.9_12.4	1.4_10.8	1.4_10.8	1.4_10.8	1.4_10.8			
<b>S 30 1</b>		2.4_13.1	2.4_13.1	1.4_13.1	1.4_13.1	1.4_13.1	1.4_13.1	1.4_4.9		
<b>S 40 1</b>		3.1_12.4	3.1_12.4	1.4_12.4	1.4_12.4	1.4_12.4	1.4_12.4	1.4_6.1		
<b>S 50 1</b>		3.8_12.9	3.8_12.9	1.4_12.9	1.4_12.9	1.4_12.9	1.4_12.9	1.4_7.4	1.4_7.4	1.4_7.4

(E 72)

							
		M05	M1	M2 - ME2	ME3	ME4	ME5
<b>S 10 1</b>	<b>i =</b>	1.4_12.3	1.4_6.9	1.4_8.9	1.4_8.9		
<b>S 20 1</b>		1.9_12.4	1.9_8.5	1.4_10.8	1.4_10.8		
<b>S 30 1</b>			2.4_10.3	1.4_13.1	1.4_13.1	1.4_4.9	
<b>S 40 1</b>			3.1_12.4	1.4_12.4	1.4_12.4	1.4_6.1	
<b>S 50 1</b>			3.8_12.9	1.4_12.9	1.4_12.9	1.4_7.4	1.4_7.4



## 72 MOMENTO DE INÉRCIA

As tabelas abaixo indicam os valores de momento de inércia  $J_r$  [kgm<sup>2</sup>] referentes ao eixo de alta velocidade do redutor. Legenda dos símbolos utilizados a seguir:



Valores sob este ícone referem-se a redutores compactos, sem motor. Para obter o momento de inércia total do redutor, basta incluir o valor da inércia do motor compacto específico, fornecido na tabela de classificação pertinente.



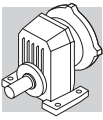
Valores sob este símbolo referem-se a redutores com adaptador para motor IEC (tamanho IEC...).






Este símbolo refere-se a valores para redutores.

## S 10




	i	J (•10 <sup>-4</sup> ) [kgm <sup>2</sup> ]							
			63	71	80	90	100	112	
<b>S 10 1_1.4</b>	1.4	0.33	1.8	1.8	3.2	3.1	4.4	4.4	1.2
<b>S 10 1_1.9</b>	1.9	0.22	1.7	1.7	3.1	3.0	4.3	4.3	1.1
<b>S 10 1_2.5</b>	2.5	0.16	1.6	1.6	3.0	2.9	4.2	4.2	1.0
<b>S 10 1_3.2</b>	3.2	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.97
<b>S 10 1_3.9</b>	3.9	0.08	1.5	1.5	2.9	2.9	4.2	4.2	0.95
<b>S 10 1_4.7</b>	4.7	0.06	1.5	1.5	2.9	2.8	4.1	4.1	0.93
<b>S 10 1_6.1</b>	6.1	0.04	1.5	1.5	2.9	2.8	4.1	4.1	0.92
<b>S 10 1_6.9</b>	6.9	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.91
<b>S 10 1_8.9</b>	8.9	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.90
<b>S 10 1_10.3</b>	10.3	0.02	1.5	1.5	—	—	—	—	0.89
<b>S 10 1_12.3</b>	12.3	0.01	1.5	1.5	—	—	—	—	0.89

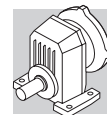


## S 20




	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]							
			IEC 						
			63	71	80	90	100	112	
<b>S 20 1_1.4</b>	1.4	0.73	—	—	3.6	3.5	4.8	4.8	2.7
<b>S 20 1_1.9</b>	1.9	0.48	1.9	1.9	3.3	3.3	4.6	4.6	2.4
<b>S 20 1_2.4</b>	2.4	0.34	1.8	1.8	3.2	3.1	4.4	4.4	2.3
<b>S 20 1_3.1</b>	3.1	0.20	1.7	1.7	3.0	3.0	4.3	4.3	2.1
<b>S 20 1_3.9</b>	3.9	0.14	1.6	1.6	3.0	2.9	4.2	4.2	2.1
<b>S 20 1_4.8</b>	4.8	0.12	1.6	1.6	3.0	2.9	4.2	4.2	2.0
<b>S 20 1_5.8</b>	5.8	0.08	1.6	1.5	2.9	2.9	4.2	4.2	2.0
<b>S 20 1_7.2</b>	7.2	0.06	1.5	1.5	2.9	2.8	4.1	4.1	2.0
<b>S 20 1_8.5</b>	8.5	0.05	1.5	1.5	2.9	2.8	4.1	4.1	2.0
<b>S 20 1_10.8</b>	10.8	0.03	1.5	1.5	2.9	2.8	4.1	4.1	1.9
<b>S 20 1_12.4</b>	12.4	0.02	1.5	1.5	—	—	—	—	1.9

## S 30




	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]								
			IEC 							
			63	71	80	90	100	112	132	
<b>S 30 1_1.4</b>	1.4	1.5	—	—	4.3	4.3	5.6	5.6	18	3.8
<b>S 30 1_1.8</b>	1.8	1.1	—	—	3.9	3.8	5.1	5.1	18	3.4
<b>S 30 1_2.4</b>	2.4	0.59	2.1	2.0	3.4	3.4	4.7	4.7	17	2.9
<b>S 30 1_3.1</b>	3.1	0.45	1.9	1.9	3.3	3.2	4.5	4.5	17	2.8
<b>S 30 1_3.9</b>	3.9	0.33	1.8	1.8	3.2	3.1	4.4	4.4	17	2.7
<b>S 30 1_4.9</b>	4.9	0.24	1.7	1.7	3.1	3.0	4.3	4.3	17	2.6
<b>S 30 1_5.8</b>	5.8	0.19	1.7	1.7	3.0	3.0	4.3	4.3	—	2.6
<b>S 30 1_7.1</b>	7.1	0.14	1.6	1.6	3.0	2.9	4.2	4.2	—	2.5
<b>S 30 1_8.9</b>	8.9	0.10	1.6	1.6	2.9	2.9	4.2	4.2	—	2.5
<b>S 30 1_10.3</b>	10.3	0.08	1.5	1.5	2.9	2.9	4.2	4.2	—	2.4
<b>S 30 1_13.1</b>	13.1	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	2.4

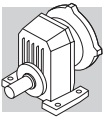


## S 40

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]								
			IEC 							
			63	71	80	90	100	112	132	
S 40 1_1.4	1.4	3.7	—	—	6.5	6.5	7.8	7.8	23	14
S 40 1_1.9	1.9	2.4	—	—	5.2	5.2	6.5	6.5	21	13
S 40 1_2.4	2.4	1.6	—	—	4.4	4.4	5.7	5.7	21	12
S 40 1_3.1	3.1	1.1	2.6	2.6	4.0	3.9	5.2	5.2	20	12
S 40 1_3.8	3.8	0.82	2.3	2.3	3.7	3.6	4.9	4.9	18	11
S 40 1_4.8	4.8	0.50	2.0	2.0	3.3	3.3	4.6	4.6	18	11
S 40 1_6.1	6.1	0.39	1.8	1.8	3.2	3.2	4.5	4.5	18	11
S 40 1_7.2	7.2	0.30	1.8	1.8	3.1	3.1	4.4	4.4	—	11
S 40 1_8.6	8.6	0.22	1.7	1.7	3.1	3.0	4.3	4.3	—	11
S 40 1_10.7	10.7	0.15	1.6	1.6	3.0	2.9	4.2	4.2	—	11
S 40 1_12.4	12.4	0.12	1.6	1.6	3.0	2.8	4.2	4.2	—	11

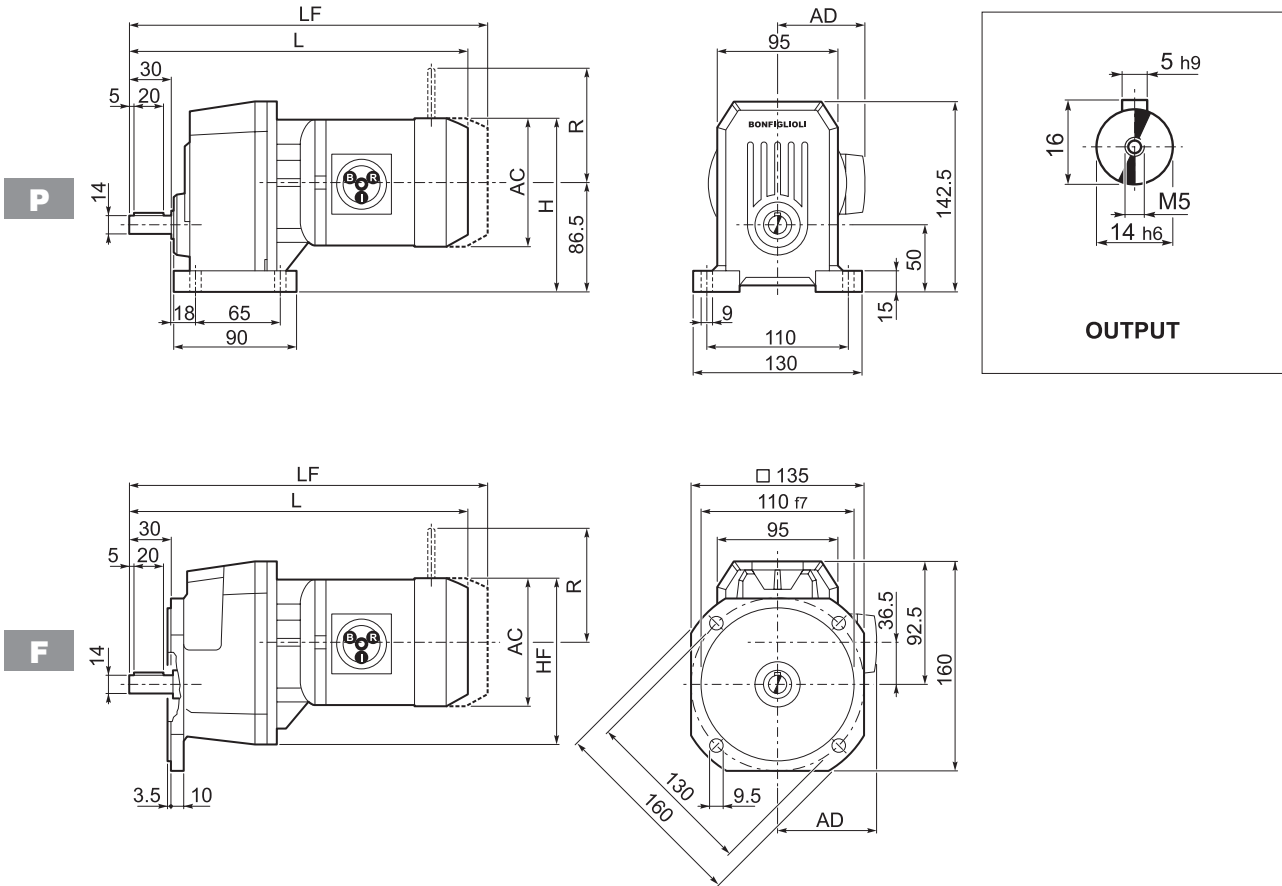
## S 50

	i	J ( $\cdot 10^{-4}$ ) [kgm <sup>2</sup> ]										
			IEC 									
			63	71	80	90	100	112	132	160	180	
S 50 1_1.4	1.4	8.2	—	—	11	11	12	12	27	86	84	19
S 50 1_1.8	1.8	5.9	—	—	8.8	8.7	10	10	25	84	82	16
S 50 1_2.4	2.4	3.9	—	—	6.8	6.7	8.0	8.0	23	82	80	14
S 50 1_3.0	3.0	2.7	—	—	5.5	5.5	6.8	6.8	22	81	79	13
S 50 1_3.8	3.8	1.9	3.3	3.3	4.7	4.6	5.9	5.9	21	80	78	12
S 50 1_4.8	4.8	1.4	2.8	2.8	4.2	4.1	5.4	5.4	21	79	77	12
S 50 1_6.1	6.1	0.89	2.4	2.4	3.7	3.7	5.0	5.0	21	79	77	11
S 50 1_7.4	7.4	0.63	2.1	2.1	3.5	3.4	4.7	4.7	20	79	77	11
S 50 1_8.8	8.8	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
S 50 1_10.5	10.5	0.36	1.8	1.8	3.2	3.1	4.4	4.4	—	—	—	11
S 50 1_12.9	12.9	0.25	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	11



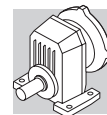
**73 DIMENSÕES**

**S 10...M/ME**

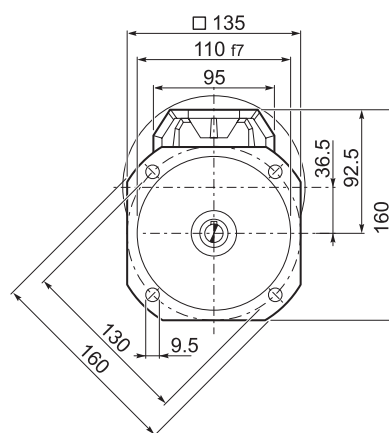
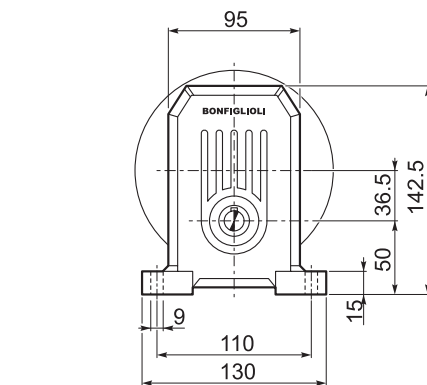
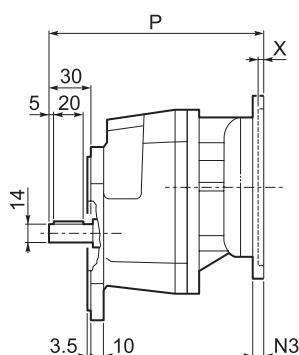
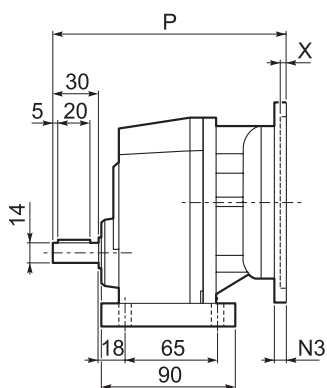
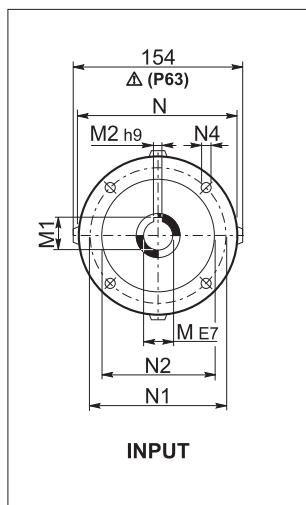
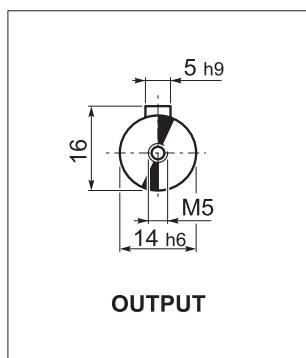


Dimensões em mm

Motor Icon	S	M	AC	H	HF	L	AD	Kg	M...FD M...FA		M...FD		M...FA		
									LF	Kg	R	AD	R	AD	
	S 10 1	S05	M05	121	147	143	315	95	8	381	11	96	122	116	95
	S 10 1	S1	M1	137	155	151	344	102	10	405	13	103	135	124	108
	S 10 1	S2	M2S	156	164	160	367	111	13	443	17	129	146	134	119
	S 10 1	S2	ME2S	156	164	160	367	111	13	—	—	—	—	—	—
	S 10 1	S3	ME3S	195	184	180	416	135	20.5	—	—	—	—	—	—
	S 10 1	S3	ME3L	195	184	180	448	135	21	—	—	—	—	—	—



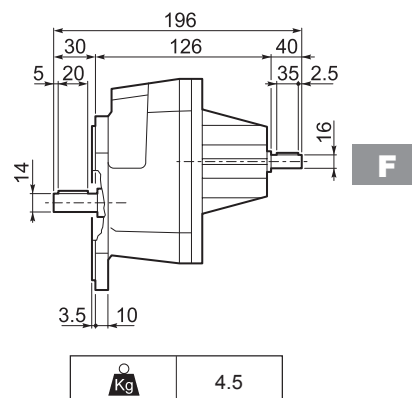
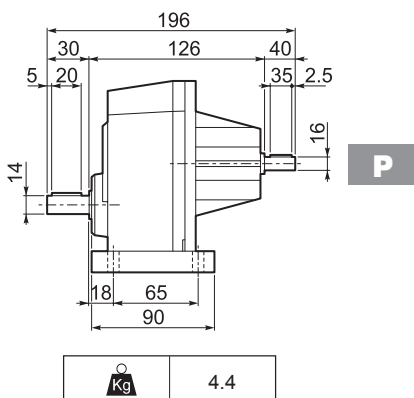
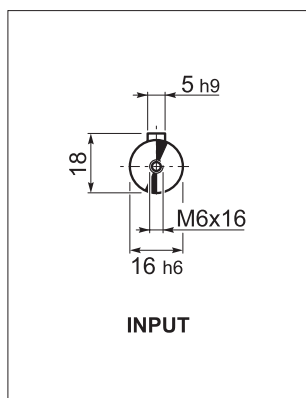
## S 10...P (IEC)



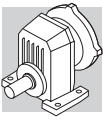
Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	P	X	Kg
S 10 1	P63	11	12.8	4	140	115	95	—	M8x10	189	4	5
S 10 1	P71	14	16.3	5	160	130	110	—	M8x10	189	4.5	5
S 10 1	P80	19	21.8	6	200	165	130	—	M10x14.5	208	4	6
S 10 1	P90	24	27.3	8	200	165	130	—	M10x14.5	208	4	6
S 10 1	P100	28	31.3	8	250	215	180	—	M12x16	218	4.5	10
S 10 1	P112	28	31.3	8	250	215	180	—	M12x16	218	4.5	10

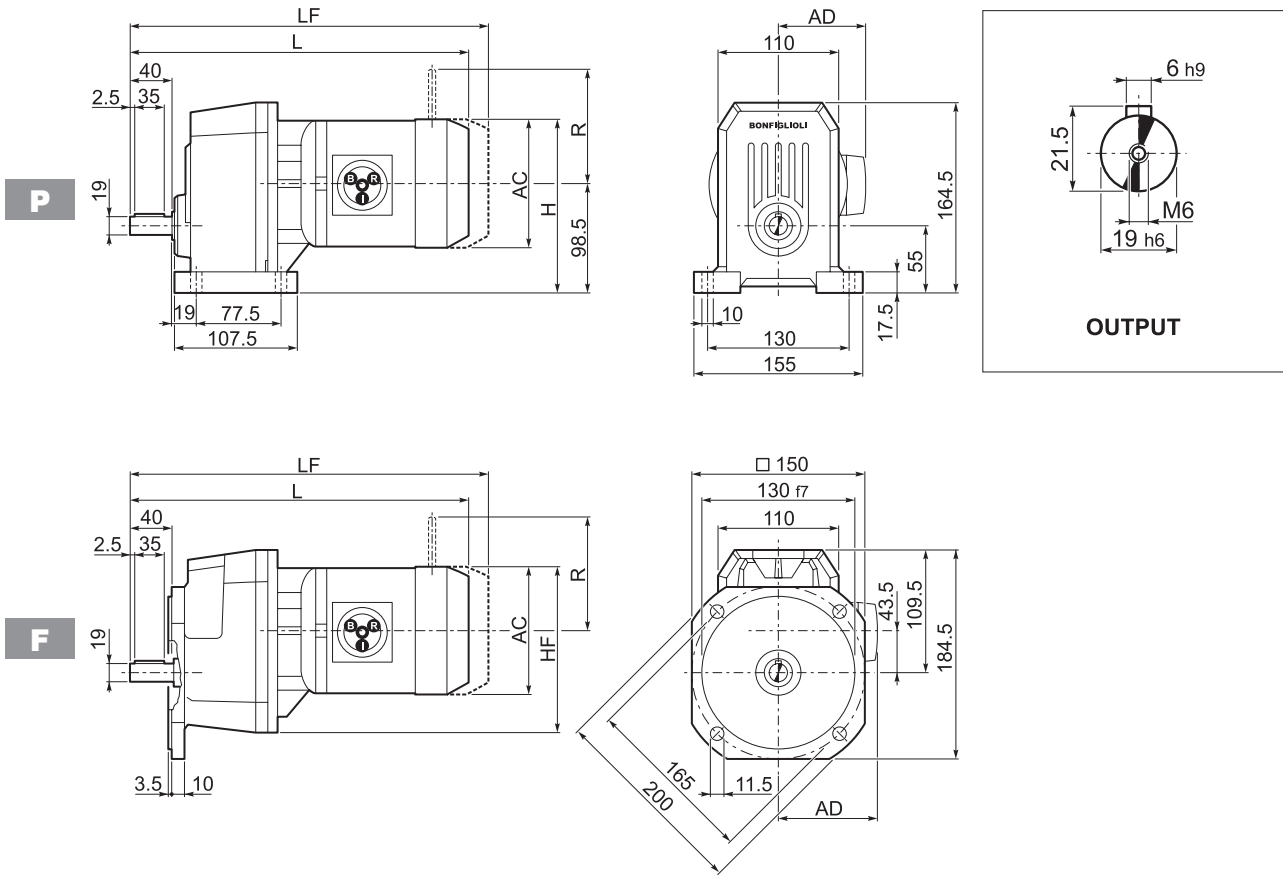
## S 10...HS





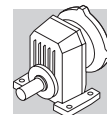


## S 20...M/ME

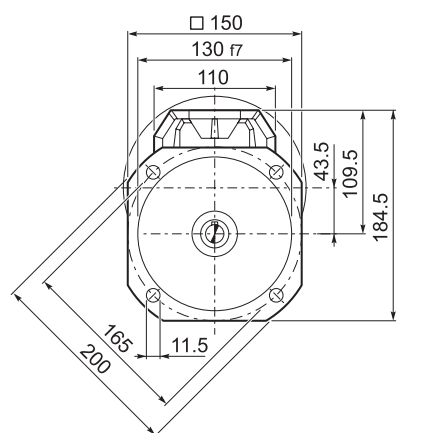
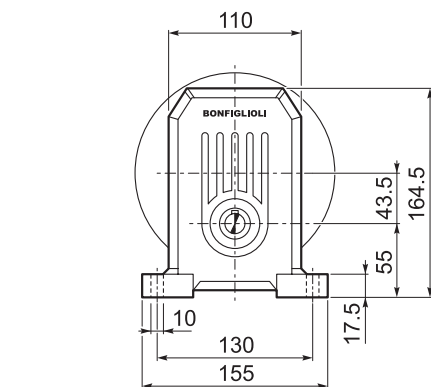
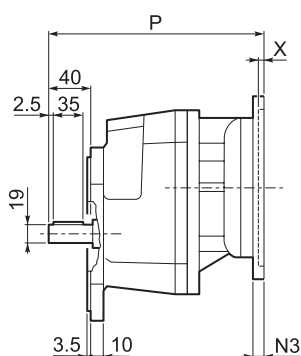
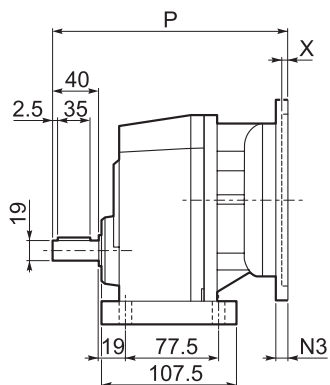
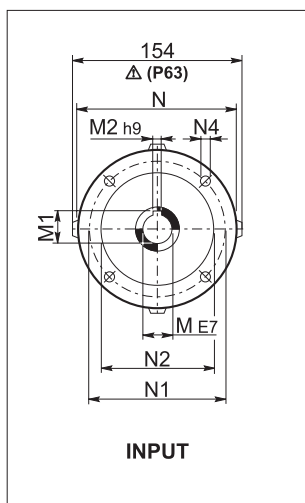
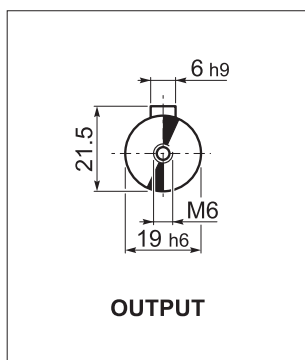


Dimensões em mm

			AC	H	HF	L	AD	Kg	M...FD M...FA		M...FD		M...FA	
									LF	Kg	R	AD	R	AD
S 20 1	S05	M05	121	159	153	333.5	95	10	399.5	12	96	122	116	95
S 20 1	S1	M1	137	167	161	362.5	102	12	423.5	14	103	135	124	108
S 20 1	S2	M2S	156	176	170	385.5	111	16	461.5	19	129	146	134	119
S 20 1	S2	ME2S	156	176	170	385.5	111	16	—	—	—	—	—	—
S 20 1	S3	ME3S	195	196	190	434.5	135	21.5	—	—	—	—	—	—
S 20 1	S3	ME3L	195	196	190	466.5	135	26	—	—	—	—	—	—



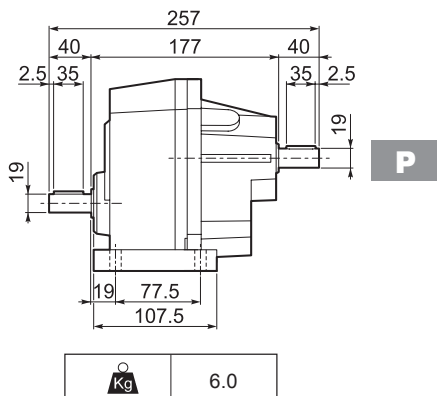
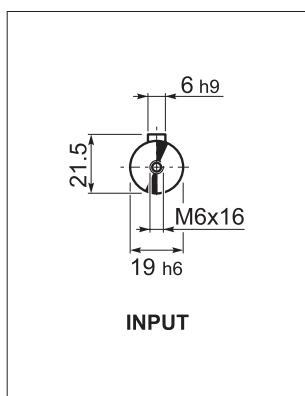
## S 20...P(IEC)



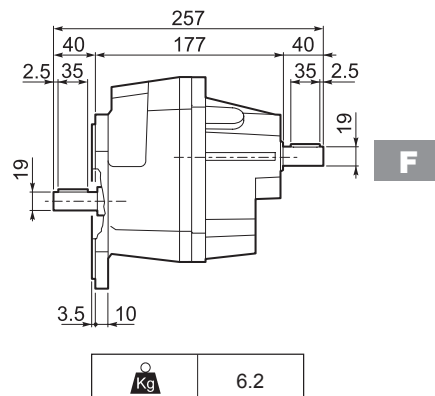
Dimensões em mm

		M	M1	M2	N	N1	N2	N3	N4	P	X	Kg
S 20 1	P63	11	12.8	4	140	115	95	—	M8x10	207	4	6
S 20 1	P71	14	16.3	5	160	130	110	—	M8x10	207	4.5	6
S 20 1	P80	19	21.8	6	200	165	130	—	M10x14.5	227	4	7
S 20 1	P90	24	27.3	8	200	165	130	—	M10x14.5	227	4	7
S 20 1	P100	28	31.3	8	250	215	180	—	M12x16	237	4.5	11
S 20 1	P112	28	31.3	8	250	215	180	—	M12x16	237	4.5	11

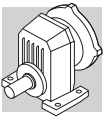
## S 20...HS



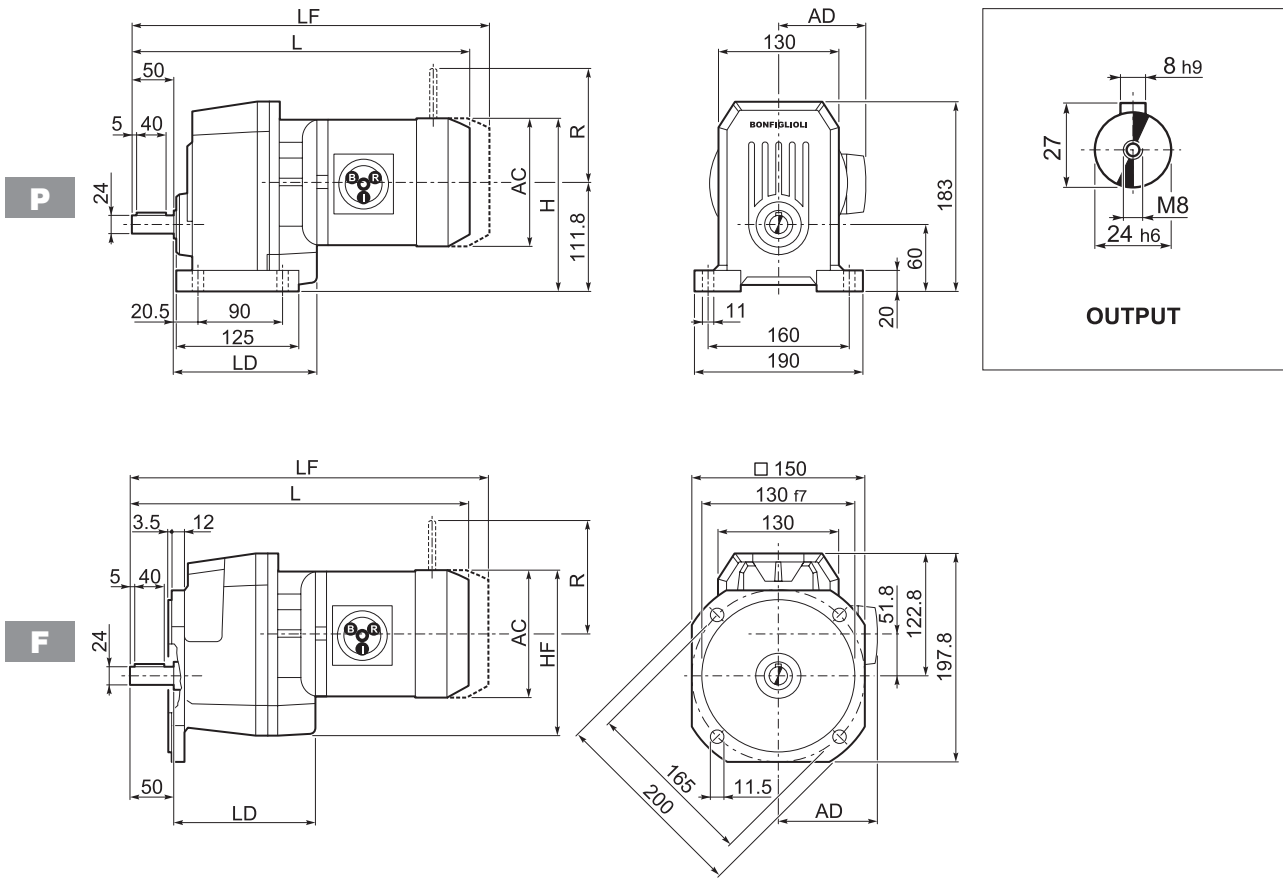
Kg	6.0
----	-----



Kg	6.2
----	-----

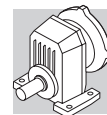


## S 30...M/ME

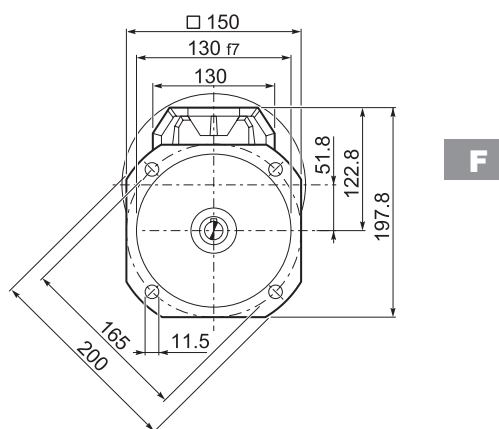
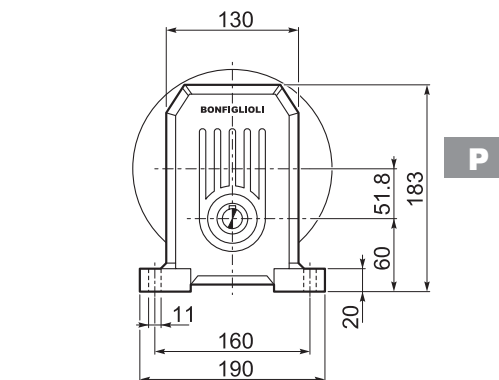
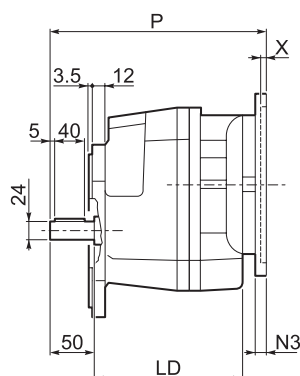
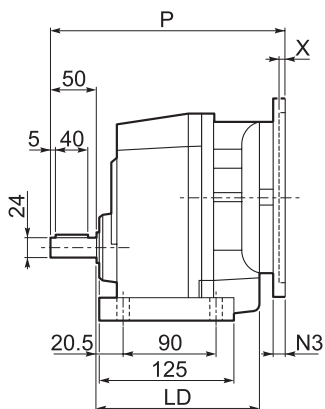
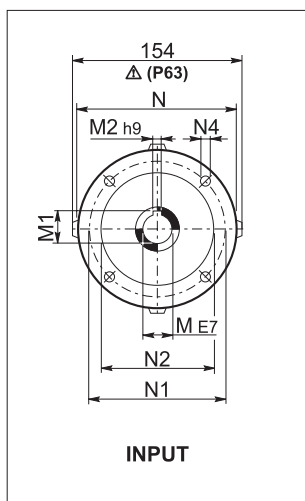
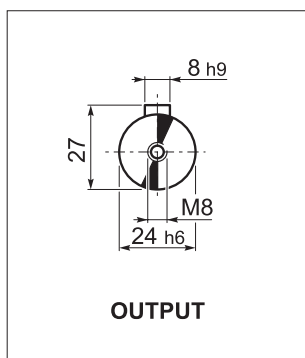


Dimensões em mm

			AC	H	HF	L	LD	AD	Kg	M...FD M...FA		M...FD		M...FA	
										LF	Kg	R	AD	R	AD
S 30 1	S1	M1	137	180	177	387.5	140.5	102	14	448.5	16	103	135	124	108
S 30 1	S2	MES	156	190	186	410.5	152.5	111	18	486.5	21	129	146	134	119
S 30 1	S2	ME2S	156	190	186	410.5	152.5	111	18	—	—	—	—	—	—
S 30 1	S3	ME3S	195	209	206	459.5	162.5	135	24.5	—	—	—	—	—	—
S 30 1	S3	ME3L	195	209	206	491.5	162.5	135	32	—	—	—	—	—	—
S 30 1	S4	ME4	258	240.8	237	599.5	—	193	71	—	—	—	—	—	—
S 30 1	S4	ME4LB	258	240.8	237	634.5	—	193	79	—	—	—	—	—	—



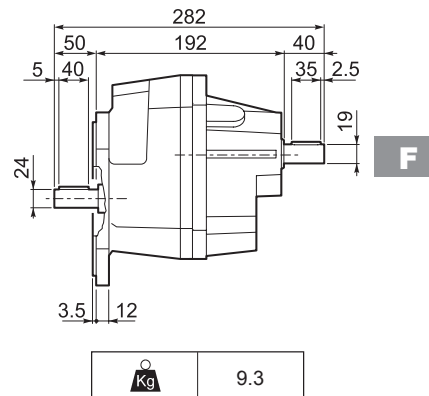
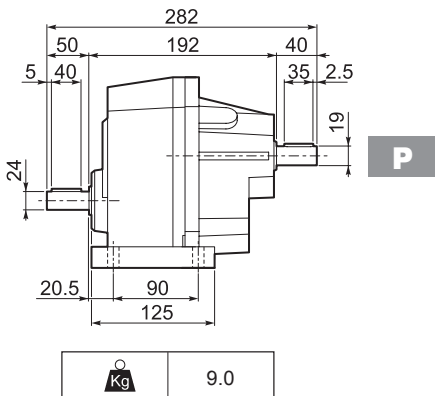
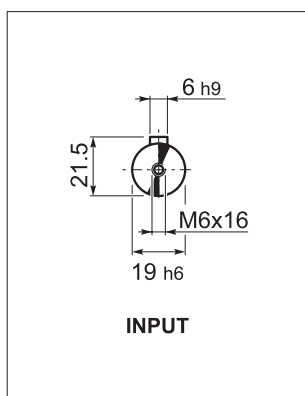
## S 30...P(IEC)

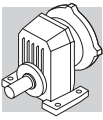


Dimensões em mm

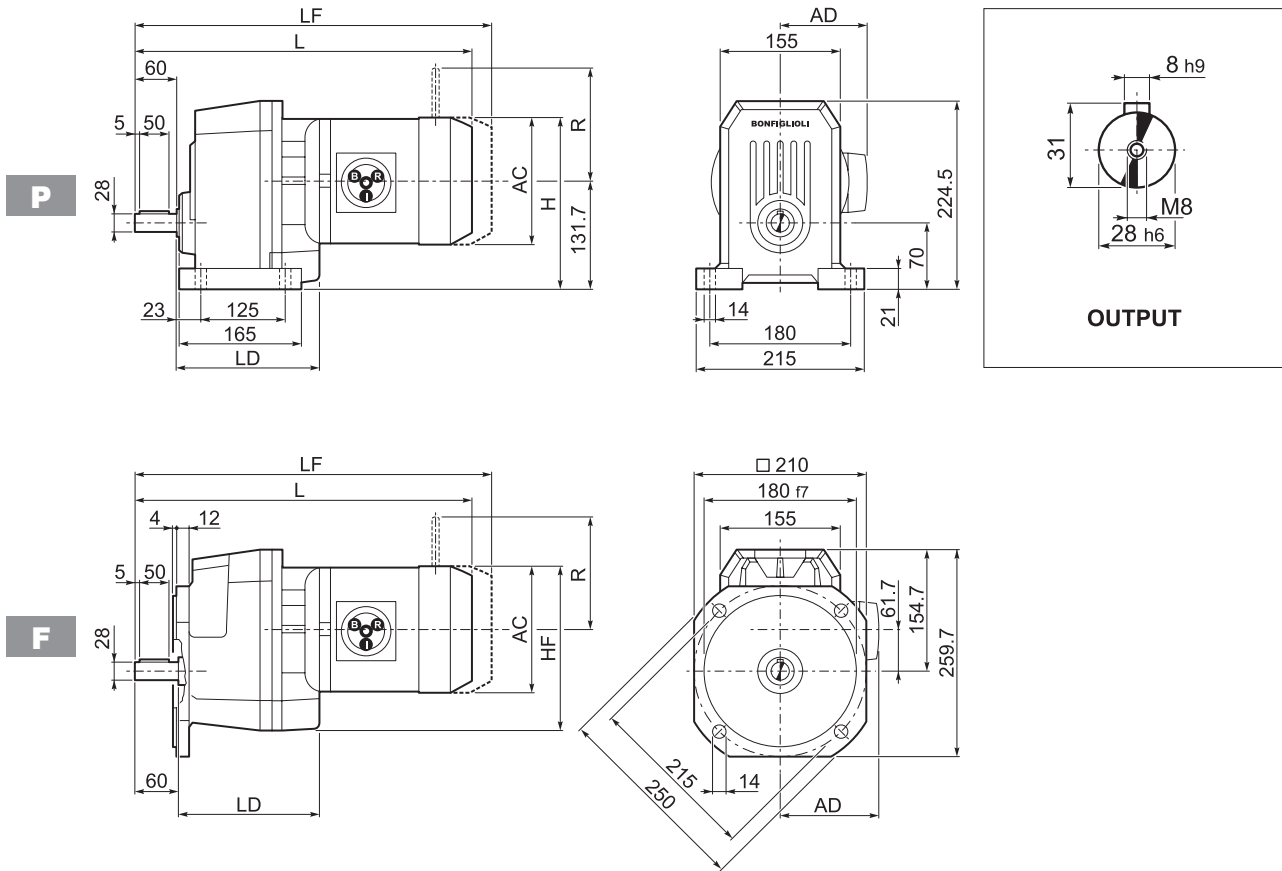
		LD	M	M1	M2	N	N1	N2	N3	N4	P	X	kg
S 30 1	P63	152.5	11	12.8	4	140	115	95	—	M8x10	232	4	8
S 30 1	P71	152.5	14	16.3	5	160	130	110	—	M8x10	232	4.5	8
S 30 1	P80	162.5	19	21.8	6	200	165	130	—	M10x14.5	252	4	9
S 30 1	P90	162.5	24	27.3	8	200	165	130	—	M10x14.5	252	4	9
S 30 1	P100	162.5	28	31.3	8	250	215	180	—	M12x16	262	4.5	13
S 30 1	P112	162.5	28	31.3	8	250	215	180	—	M12x16	262	4.5	13
S 30 1	P132	—	38	41.3	10	300	265	230	16	14	298.5	5	21

## S 30...HS



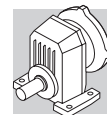


## S 40...M/ME

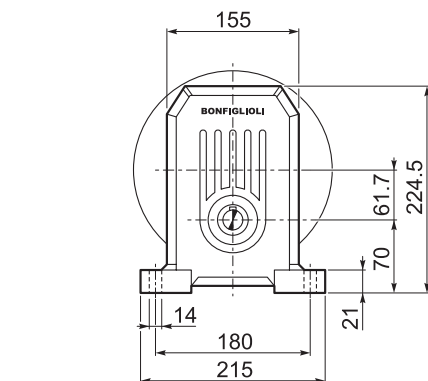
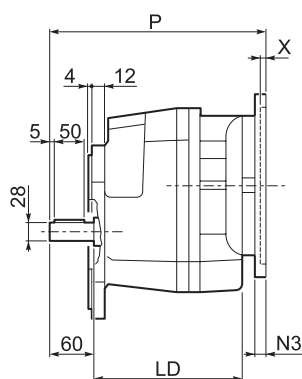
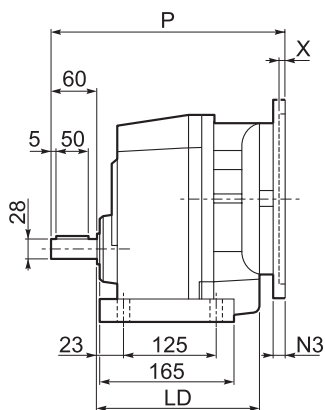
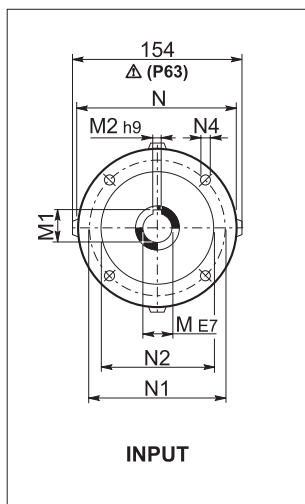
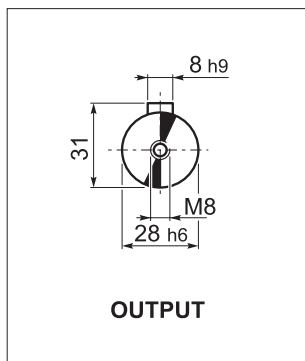


Dimensões em mm

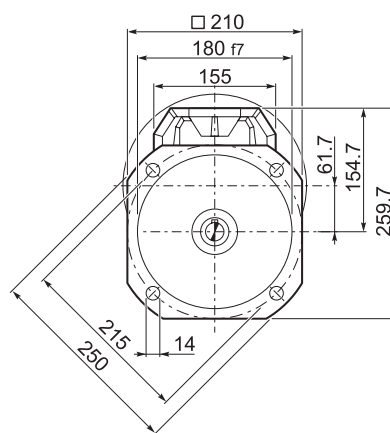
			AC	H	HF	L	LD	AD	Kg	M...FD M...FA		M...FD		M...FA	
										LF	Kg	R	AD	R	AD
S 40 1	S1	M1	137	200	197	429.5	168	102	28	490.5	31	103	135	124	108
S 40 1	S2	M2S	156	210	206	452.5	183.5	111	34	528.5	37	129	146	134	119
S 40 1	S2	ME2S	156	210	206	452.5	183.5	111	34	—	—	—	—	—	—
S 40 1	S3	ME3S	195	229	226	501.5	199.5	135	40.5	—	—	—	—	—	—
S 40 1	S3	ME3L	195	229	226	533.5	199.5	135	48	—	—	—	—	—	—
S 40 1	S4	ME4	MX4	258	261	257	641.5	—	193	82	—	—	—	—	—
S 40 1	S4	ME4LB	MX4LA	258	261	257	676.5	—	193	90	—	—	—	—	—



## S 40...P(IEC)



**P**

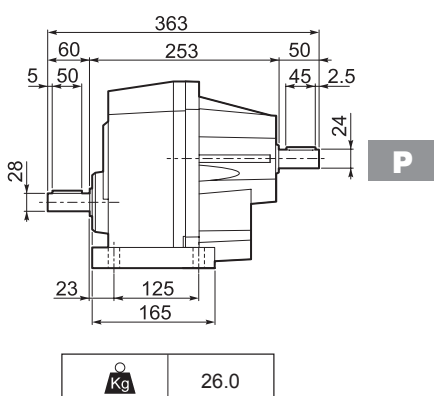
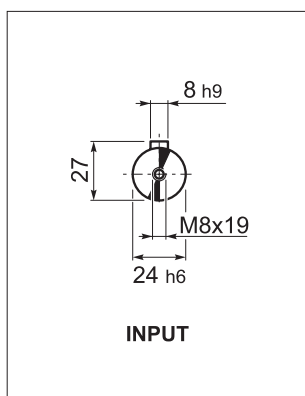


**F**

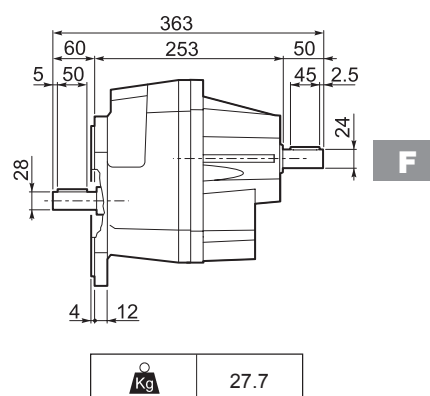
Dimensões em mm

		LD	M	M1	M2	N	N1	N2	N3	N4	P	X	Kg
S 40 1	P63	183.5	11	12.8	4	140	115	95	—	M8x10	274	4	25
S 40 1	P71	183.5	14	16.3	5	160	130	110	—	M8x10	274	4.5	26
S 40 1	P80	199.5	19	21.8	6	200	165	130	—	M10x14.5	294	4	26
S 40 1	P90	199.5	24	27.3	8	200	165	130	—	M10x14.5	294	4	30
S 40 1	P100	—	28	31.3	8	250	215	180	—	M12x16	304	4.5	30
S 40 1	P112	—	28	31.3	8	250	215	180	—	M12x16	304	4.5	30
S 40 1	P132	—	38	41.3	10	300	265	230	16	14	340	5	32

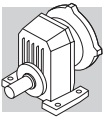
## S 40...HS



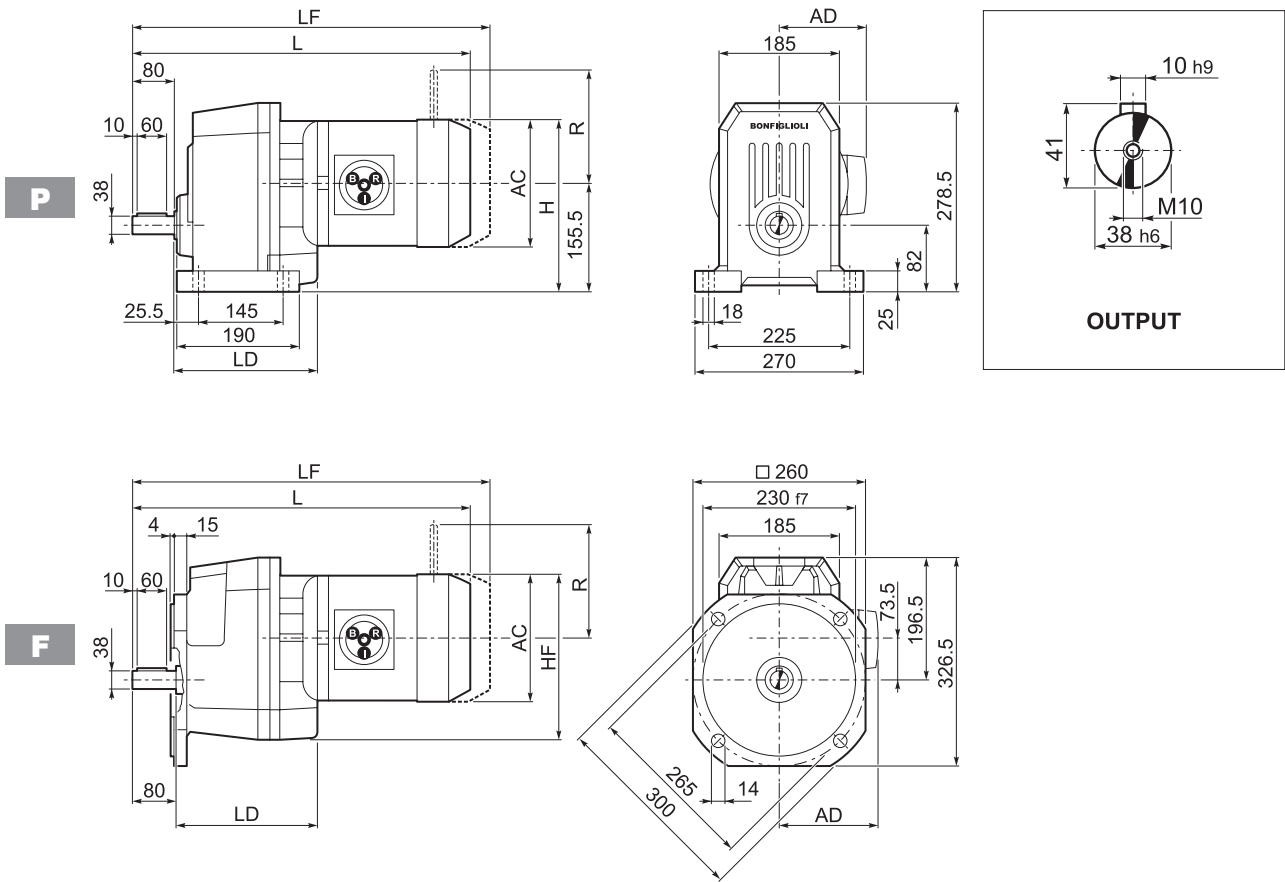
**Kg** 26.0



**Kg** 27.7

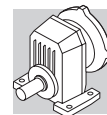


## S 50...M/ME

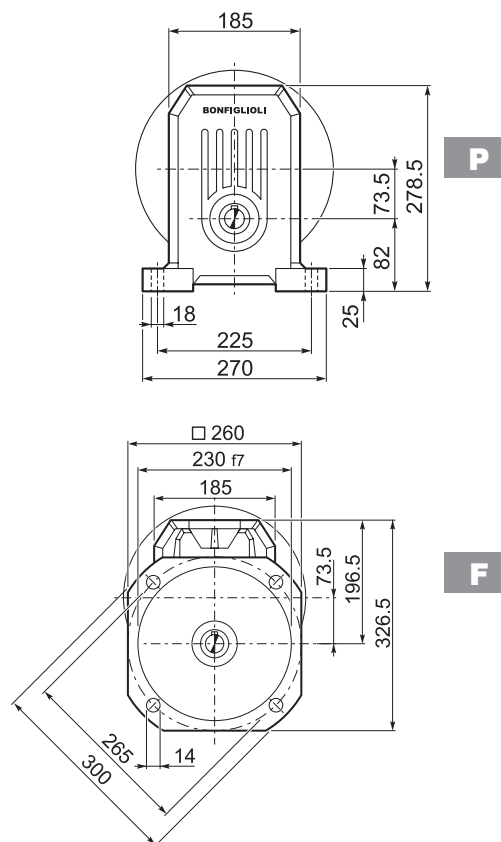
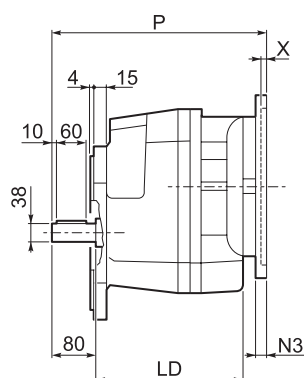
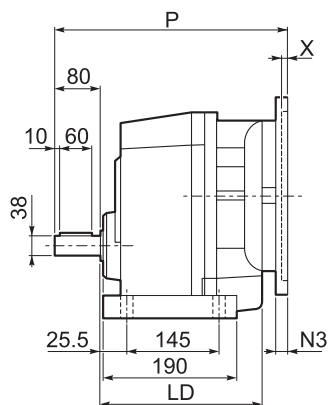
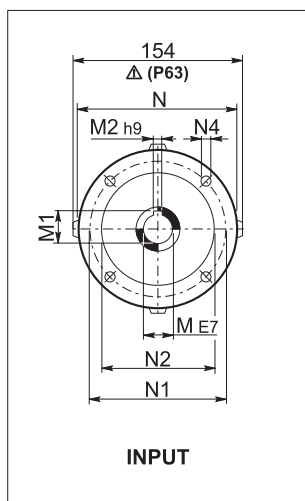
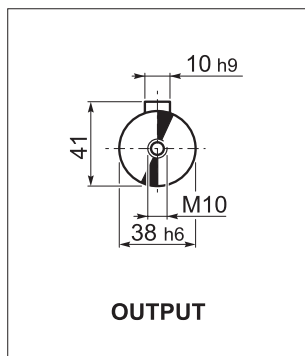


Dimensões em mm

Motor	Gearbox	Output	AC	H	HF	L	LD	AD	Kg	M...FD M...FA		M...FD		M...FA	
										LF	Kg	R	AD	R	AD
S 50 1	S1	M1	137	225	222	469	—	102	40	530	42	103	135	124	108
S 50 1	S2	M2S	156	233	230	492.5	204.5	111	44	568.5	47	129	146	134	119
S 50 1	S2	ME2S	156	233	230	492.5	204.5	111	44	—	—	—	—	—	—
S 50 1	S3	ME3S	195	253	250	541.5	219.5	135	52.5	—	—	—	—	—	—
S 50 1	S3	ME3L	195	253	250	573.5	219.5	135	60	—	—	—	—	—	—
S 50 1	S4	ME4	258	284	281	681.5	204.5	193	86	—	—	—	—	—	—
S 50 1	S4	ME4LB	258	284	281	716.5	204.5	193	94	—	—	—	—	—	—
S 50 1	S5	ME5S	310	310.5	307	768	—	245	114	—	—	—	—	—	—
S 50 1	S5	ME5L	310	310.5	307	812	—	245	130	—	—	—	—	—	—



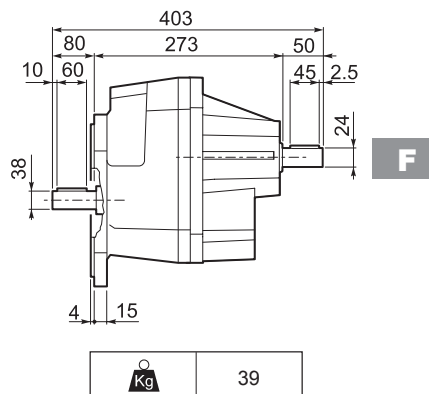
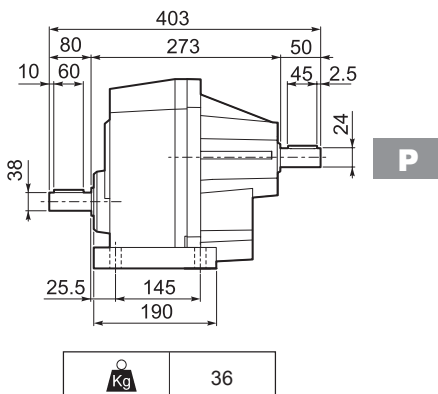
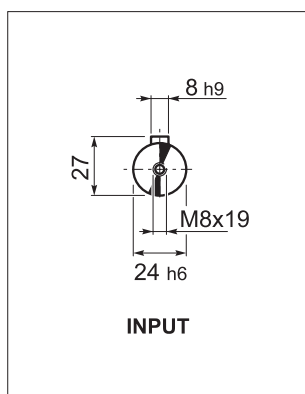
## S 50...P(IEC)



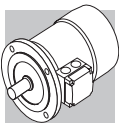
Dimensões em mm

		LD	M	M1	M2	N	N1	N2	N3	N4	P	X	kg
S 50 1	P63	204.5	11	12.8	4	140	115	95	—	M8x10	314	4	35
S 50 1	P71	204.5	14	12.8	4	160	130	110	—	M8x10	314	4.5	35
S 50 1	P80	219.5	19	16.3	5	200	165	130	—	M10x14.5	314	4	37
S 50 1	P90	219.5	24	21.8	6	200	165	130	—	M10x14.5	334	4	37
S 50 1	P100	204.5	28	27.3	8	250	215	180	—	M12x16	344	4.5	41
S 50 1	P112	204.5	28	31.3	8	250	215	180	—	M12x16	344	4.5	41
S 50 1	P132	204.5	38	41.3	10	300	265	230	16	14	380	5	44
S 50 1	P160	—	42	45.3	12	350	300	250	23	18	431	5.5	48
S 50 1	P180	—	48	51.8	14	350	300	250	23	18	431	5.5	48

## S 50...HS



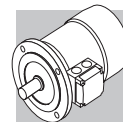




## MOTORES ELÉTRICOS

### M1 SÍMBOLOS E UNIDADES DE MEDIDA

Simbologia	Unidades de Medida	Descrição	Simbologia	Unidades de Medida	Descrição
$\cos\varphi$	–	Fator de potência	$n$	[rpm]	Velocidade nominal
$\eta$	–	Eficiência	$P_B$	[W]	Potência absorvida pelo freio a 20°C
$f_m$	–	Fator de ajuste de potência	$P_n$	[kW]	Potência nominal do motor
$l$	–	Fator de duração de ciclo	$P_r$	[kW]	Potência requerida
$I_N$	[A]	Corrente nominal	$t_1$	[ms]	Tempo de resposta do freio com retificador unidirecional
$I_S$	[A]	Corrente do rotor bloqueado	$t_{1s}$	[ms]	Tempo de resposta do freio com retificador controlado eletronicamente
$J_C$	[Kgm <sup>2</sup> ]	Momento de inércia da carga	$t_2$	[ms]	Tempo de reação do freio com a.c. desconectada
$J_M$	[Kgm <sup>2</sup> ]	Momento de inércia	$t_{2c}$	[ms]	Tempo de reação do freio com a.c. e d.c. desconectadas
$K_C$	–	Fator de torque	$t_a$	[°C]	Temperatura ambiente
$K_d$	–	Fator de carga	$t_f$	[min]	Tempo de operação com carga constante
$K_J$	–	Fator de inércia	$t_r$	[min]	Tempo de descanso
$M_A$	[Nm]	Torque de partida médio	$W$	[J]	Trabalho de frenagem entre o intervalo de serviço
$M_B$	[Nm]	Torque do freio	$W_{max}$	[J]	Trabalho máximo do freio para cada frenagem
$M_N$	[Nm]	Torque nominal	$Z$	[1/h]	Número de partidas permitidas, carregadas
$M_L$	[Nm]	Medição do torque durante a aceleração	$Z_0$	[1/h]	Número máximo de partidas permitidas, não carregadas (l = 50%)
$M_S$	[Nm]	Torque de partida			



## M2 INTRODUÇÃO

### Classes de eficiência e métodos de teste

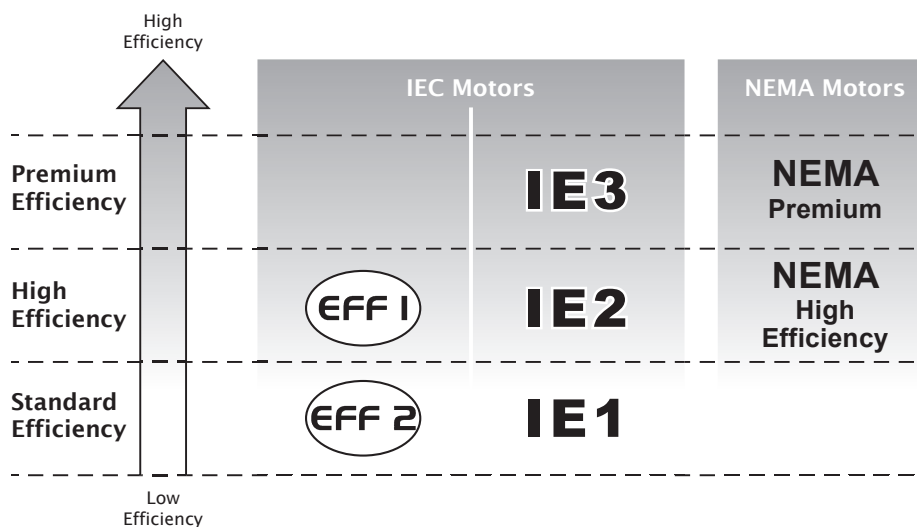
Classes de eficiência caracterizam a eficiência com a qual um motor elétrico converte a energia elétrica em energia mecânica. Na Europa, a eficiência energética dos motores elétricos de baixa tensão costuma ser classificada com o uso voluntário do sistema Eff1/Eff2/Eff3. Fora da Europa, outros países costumam aplicar seus próprios sistemas nacionais, geralmente muito diferentes do sistema Europeu. Esta incerteza nos padrões levou os fabricantes a desenvolver um padrão internacional harmonizado, e forçou a emissão do padrão IEC (International Electrotechnical Commission) [Comissão Eletrotécnica Internacional] IEC 60034-30-1, “Classes de eficiência de Motores de Indução de Gaiola de Esquilo, trifásicos, de uma velocidade (Código IE)”.

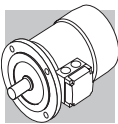
Nos EUA, o padrão de referência é o NEMA MG1.

Estes novos padrões:

- definem novas classes de eficiência
- **IE1** (eficiência padrão)
- **IE2** (alta eficiência NEMA)
- **IE3** (eficiência premium NEMA)
- fornecem um sistema de referência comum internacional para a classificação de motores elétricos e para a legislação nacional
- introduzem um novo método de medida de eficiência em conformidade com o padrão IEC 60034-1-2:2007

A tabela abaixo exhibe a correspondência entre as principais classes.





## Regulamento da Comissão Europeia 640/2009

Padrão IEC 60034-30-1 estabelece diretrizes técnicas para classificação de eficiência, mas não impõe nenhum requisito legal para a adoção de uma classe de eficiência específica. Estes requisitos são estabelecidos pelas Diretivas Europeias e leis nacionais.

A Regulamentação EC que aplica a Diretiva 2005/32/EC foi adotada em 22 de julho de 2009. Isto estabelece os requisitos legais e os critérios de projeto eco-compatíveis, além de impor limites mínimos de eficiência de acordo com o cronograma a seguir:

- **16/06/2011:** Motores elétricos deverão ter um nível mínimo de eficiência equivalente à classe **IE2**
- **01/01/2015:** Motores elétricos com saída de potência nominal entre 7,5 kW e 375 kW deverão ter
  - um nível mínimo de eficiência correspondente a **IE3**, ou a **IE2** se controlados por um inversor.
- **01/01/2017:** Motores elétricos com saída de potência nominal entre 0,75 kW e 375 kW deverão ter
  - um nível mínimo de eficiência correspondente a **IE3**, ou a **IE2** se controlados por um inversor.

## Escopo e exclusões

O Regulamento EC 640/2009 aplica-se a Motores de Indução de Gaiola de Esquilo de 50 Hz or 60 Hz, trifásicos, de 1 velocidade, com 2, 4, ou 6 polos, com saídas nominais de 0,75 kW até 375 kW, e tensão nominal de até 1000 V, projetados para serviço contínuo (S1).

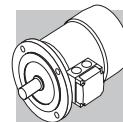
O regulamento não é aplicável a:

- motores com freio
- motores projetados para funcionar imersos em líquido
- motores totalmente integrados em um produto (como um redutor, bomba, ventilador), uma vez que não é possível testar o desempenho do motor independentemente do desempenho do produto.
- motores expressamente projetados para funcionar:
  - em altitudes acima de 4000 metros acima do nível do mar;
  - em temperaturas ambiente acima de 40°C;
  - a temperaturas de funcionamento máximas acima de 400°C;
  - em temperaturas ambiente abaixo de -30°C (todos os motores) ou abaixo de 0°C (motores resfriados a água);
  - com líquidos refrigerantes de entrada em temperaturas abaixo de 0°C ou acima de 32°C;
  - em ambientes potencialmente explosivos conforme definido pela Diretiva 2014/34/UE.

## DOE (Departamento de Energia dos EUA)

De acordo com o Código Eletrônico de Regulamentos Federais (eCFR) dos Estados Unidos da América, parte 431 (PROGRAMA DE EFICIÊNCIA ENERGÉTICA PARA DETERMINADOS EQUIPAMENTOS COMERCIAIS E INDUSTRIAIS), subparte B (Motores Elétricos), motores de indução elétrica TEFC (tampa do ventilador totalmente fechada), equipados ou não com freio, poderão ser colocados no mercado dos EUA de acordo com as seguintes prescrições:

- **Motores IE1/Padrão** poderão ser comercializados no EUA somente se uma ou mais das condições abaixo forem aplicáveis:
  - sua potência é  $P_n < 0,75$  kW
  - eles são classificados para um serviço não contínuo (todos os serviços, exceto S1)
  - eles são rotulados somente para a operação de inversor (VFD)
  - eles são motores multivelocidades
- **Motores IE2/de Alta Eficiência** podem ser comercializados nos EUA até **1º de junho de 2016**, somente se:
  - tiverem desempenho de acordo com as características de projeto NEMA tipo C, conforme descrição em MG1 ou um projeto IEC equivalente como um Projeto IEC tipo H
- Qualquer motor produzido a partir de **1º de junho de 2016** será do tipo **IE3 ou terá Eficiência Premium**, a menos que as isenções pertinentes a seguir sejam aplicáveis:
  - sua potência nominal seja  $P_n < 0,75$  kW
  - motores classificados para um serviço não contínuo (todos os serviços, exceto S1)
  - motores rotulados somente para a operação de inversor (VFD)
  - motores multivelocidades



### M3 CARACTERÍSTICAS GERAIS

#### M3.1 Escala de produção

Os motores elétricos trifásicos assíncronos BE, BN, ME e M produzidos pela BONFIGLIOLI RIDUTTORI estão disponíveis nos projetos básicos IMB5 e versões derivadas, com as seguintes polaridades: 2, 4, 6 polos a 50Hz e 60Hz (os motores BE, ME estão disponíveis em 60 Hz somente na configuração 4 polos). Para solicitações relativas a outras polaridades (ex: motores com duas velocidades), favor contatar o Departamento Técnico.

Os motores são fornecidos com resfriamento por ventilador totalmente fechado (TEFC) de acordo com o padrão NEMA MG1.

#### M3.2 Padrões

Os motores descritos neste catálogo são produzidos de acordo com os padrões aplicáveis apresentados na tabela abaixo.

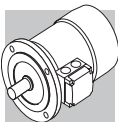
(F01)

Título	CEI	IEC
Requisitos gerais para máquinas eléctricas rotativas	CEI EN 60034-1	IEC 60034-1
Marcações do terminal e sentido de rotação das máquinas rotativas	CEI 2-8	IEC 60034-8
Métodos de resfriamento para máquinas eléctricas	CEI EN 60034-6	IEC 60034-6
Dimensões e classificações de saída para máquinas eléctricas rotativas	EN 50347	IEC 60072
Classificação do grau de proteção fornecido pelas carcaças das máquinas rotativas	CEI EN 60034-5	IEC 60034-5
Limites de ruído	CEI EN 60034-9	IEC 60034-9
Classificação do tipo de construção e disposições de montagem	CEI EN 60034-7	IEC 60034-7
Tensão nominal para redes eléctricas de baixa tensão	CEI 8-6	IEC 60038
Nível de vibração das máquinas eléctricas	CEI EN 60034-14	IEC 60034-14
Classes de eficiência de motores de indução de gaiola de esquilo trifásicos, com uma velocidade (Código IE)	CEI EN 60034-30-1	IEC 60034-30-1
Método padrão para determinar perdas e eficiência através de testes	CEI EN 60034-2-1	IEC 60034-2-1

Os motores também cumprem padrões internacionais adaptados à IEC 60034-1 conforme mostrado aqui abaixo.

(F02)

NEMA MG1	USA
DIN VDE 0530	Alemanha
BS5000 / BS4999	Grã Bretanha
AS 1359	Austrália
NBNC 51 - 101	Bélgica
NEK - IEC 34	Noruega
NF C 51	França
OEVE M 10	Áustria
SEV 3009	Suíça
NEN 3173	Países Baixos
SS 426 01 01	Suécia



### M3.3 Diretivas 2006/95/EC (LVD) e 2004/108/EC (EMC)

Os motores BE, BN, ME e M cumprem os requisitos das Diretivas 2006/95/EC (Diretiva de Baixa Tensão) e 2004/108/EC (Diretiva de Compatibilidade Eletromagnética) e suas placas de identificação contêm a marca CE.

Quanto à Diretiva EMC, a construção é feita em conformidade com os padrões CEI EN 60034-1, EN 61000-6-2, EN 61000-6-4.

Os motores com freios FD, quando equipados com o filtro capacitivo adequado na entrada do retificador (opção **CF**), cumprem os limites de emissão exigidos pelo Padrão EN 61000-6-3:2007 “Compatibilidade eletromagnética - Padrão de Emissão Genérica - Parte 6-3 Ambiente residencial, comercial e de luz industrial”.

Os motores também cumprem os requisitos do padrão CEI EN 60204-1 “Equipamento eléctrico de máquinas”.

A responsabilidade pela segurança do produto final e conformidade com as diretivas aplicáveis recai sobre o fabricante ou o montador que incorpora os motores como partes componentes.

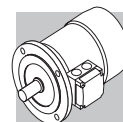
### M3.4 Tolerâncias

De acordo com as Normas CEI EN 60034-1, as tolerâncias abaixo são aplicáveis às seguintes quantidades.

(F03)

$-0.15 (1 - \eta) \quad P \leq 50 \text{ kW}$	Eficiência
$-(1 - \cos\phi)/6 \quad \text{min } 0.02 \quad \text{max } 0.07$	Fator de potência
$\pm 20\% \quad *$	Deslocamento
$+20\%$	Corrente do rotor bloqueado
$-15\% \quad +25\%$	Torque do rotor bloqueado
$-10\%$	Torque máximo

(\*)  $\pm 30\%$  para motores com  $P_n < 1 \text{ kW}$



## M4 VARIANTES E OPÇÕES

### M4.1 Variantes

(F04)

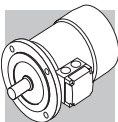
Descrição	Padrão	Opção	Página
Tensão	230/400/50		647
Classe de proteção	BE - BN - ME - M	IP 55	644
	BN_FD - BN_FA M_FD - M_FA	IP 54	
Classe de isolamento	CLF	CLH	650 651
Versão do projeto	BE - BN	<b>B5</b> <b>B5 R</b>	643

Valores padrão.

### M4.2 Opções

(F05)

Descrição	Números de catálogo						Disponibilidade	Página
	D3	K1	E3					
Dispositivos de proteção térmica	<b>D3</b>	<b>K1</b>	<b>E3</b>				BE - BN ME - M	666
50 Hz de energia normalizada	<b>PN</b>						BN M	649
Dispositivos de realimentação	<b>EN1</b>	<b>EN2</b>	<b>EN3</b>	<b>EN4</b>	<b>EN5</b>	<b>EN6</b>	BE - BN ME - M	675
Aquecedores anticondensação	<b>H1</b>	<b>NH1</b>					BE - BN ME - M	670
Bobinas tropicalizadas	<b>TP</b>						BE - BN ME - M	670
Eixo com extensão dupla	<b>PS</b>						BE - BN ME - M	671
Grau B de balanceamento do rotor	<b>RV</b>						BE - BN ME - M	672
Proteções mecânicas externas	<b>RC</b>	<b>TC</b>					BE - BN ME - M	674
Ventilação forçada	<b>U1</b>	<b>U2*</b>					BE - BN ME - M	673
Motores para EUA e Canadá	<b>CUS</b>						BE - BN ME - M	649
Certificação Obrigatória da China	<b>CCC</b>						BE - BN ME - M	650
Conector de Plug	<b>CON</b>						BE - BN ME - M	667
Proteção de superfície	<b>C_</b>						BE - BN ME - M	676
Pintura	<b>RAL</b>						BE - BN ME - M	676
Certificados	<b>ACM</b>						BE - BN ME - M	677
Certificado de inspeção	<b>CC</b>						BE - BN ME - M	677
Dispositivo contrarrecuo	<b>AL</b>	<b>AR</b>					ME - M	671
Tipo de serviço	<b>S2</b>	<b>S3</b>	<b>S9</b>				BN M	651



### M4.3 Opções relacionados a freio

(F06)	Descrição	Números de catálogo				Disponibilidade	Página
	Torque do freio	Refer to the specific brake type					659 662
	Alavanca de liberação manual	<b>R</b>	<b>RM</b>			BN M	664
	Orientação da alavanca de liberação	<b>AB</b>	<b>AA</b>	<b>AC</b>	<b>AD</b>	BN M	665
	Retificador de freio DC	<b>NB</b>	<b>NBR</b>	<b>SB</b>	<b>SBR</b>	BN M	658
	Volante de partida lenta	<b>F1</b>				BN M	665
	Filtro capacitivo	<b>CF</b>				BN M	666
	Fonte de alimentação separada do freio (*)	<b>...SA</b>	<b>...SD</b>			BN M	658 662
	Verificação de funcionalidade do freio	<b>MSW</b>				BN M	669
	Entrada de cabo adicional para motores com freio	<b>IC</b>				BN M	670

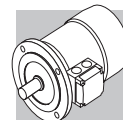
(\*) Especificar tensão.

Valores padrão.

### M4.4 Exemplo de placa de identificação

3~Mot BE 90LA 4		Cod. 8U0903000P	
No 1003001 - 6954785		S 1 IM B 5 15,1 kg	
kW 1,5 HP 2		CL F IP 55 Amb 40 °C	
Hz		V ± 10%	
50		A min <sup>-1</sup> cos φ	
230/400 Δ/Y		6.1/3.5 1430 0.74	
50Hz-IE2		83.5(100%) - 83.0(75%) - 80.0(50%)	
TEFC - kVA Code H			

- ① Tipo de motor  
BONFIGLIOLI
- ② Número de série
- ③ Tensão nominal
- ④ Código do motor
- ⑤ Tipo de serviço:  
Ciclo contínuo S1
- ⑥ Classe IE, Eficiência a:  
Carga 4/4 - 3/4 - 2/4



## M5 CARACTERÍSTICAS MECÂNICAS

### M5.1 Versões

motores BE e BN com normalização EC estão disponíveis nas versões de projeto indicadas na tabela abaixo de acordo com os Padrões EN 60034-7 (BE), CEI EN 60034-14 (BN).

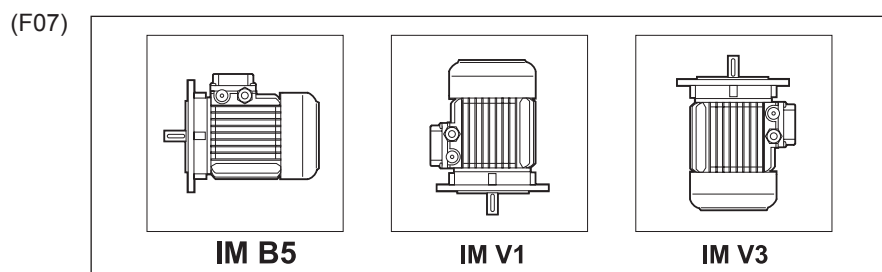
As versões de montagem são:

**IM B5** (básica)

IM V1, IM V3 (derivadas)

Motores com projeto IM B5 podem ser instalados nas posições IM V1 e IM V3. Nesses casos, o projeto básico IM B5 é indicado na placa de identificação do motor.

Nas versões de projeto com um motor localizado na vertical e o eixo para baixo, recomendamos solicitar a tampa de gotejamento (sempre necessária para freios motor). Esta facilidade, incluída na lista de opções deve ser especificada uma vez que ela não vem como um dispositivo padrão.



Motores com saída com flange também estão disponíveis com dimensões de acoplamento reduzidas, conforme indicadas na tabela abaixo - execuções **B5R**.

(F08)

	BN 71	BE/BN 80	BE/BN 90	BE/BN 100	BE/BN 112	BE/BN 132
	DxE - Ø					
<b>B5R</b>	11x23 - 140	14x30 - 160	19x40 - 200	24x50 - 200	24x50 - 200	28x60 - 250

A flange B5R está provida de furos de passagem

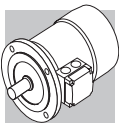
### M5.2 Grau de proteção

**IP..**







O esquema abaixo fornece uma visão geral dos graus de proteção disponíveis.






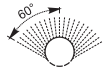








Além do grau de proteção especificado no pedido, os motores a serem instalados ao ar livre requerem proteção contra luz solar direta e também – quando eles tiverem de ser instalados verticalmente para baixo – uma tampa de gotejamento para impedir a penetração de água e partículas sólidas (opção **RC**).





(F09)

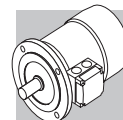
		IP 54	IP 55	IP 56
<b>BE - BN</b>	<b>ME - M</b>		standard	
<b>BN_FD BN_FA</b>	<b>M_FD M_FA</b>	standard		

<b>IP</b>		<b>5</b>	<b>5</b>		
<b>0</b>		Sem proteção	<b>0</b>		Sem proteção
<b>1</b>		Protegido contra corpos sólidos estranhos com $\varnothing \geq 50$ mm	<b>1</b>		Proteção contra gotas de água verticais
<b>2</b>		Protegido contra corpos sólidos estranhos com $\varnothing \geq 12,5$ mm	<b>2</b>		Proteção contra gotas de água verticais inclinadas até 15°
<b>3</b>		Protegido contra corpos sólidos estranhos com $\varnothing \geq 2,5$ mm	<b>3</b>		Proteção contra chuva
<b>4</b>		Protegido contra corpos sólidos estranhos com $\varnothing \geq 1,0$ mm	<b>4</b>		Proteção contra respingos de água
<b>5</b>		Proteção contra poeira	<b>5</b>		Proteção contra jatos de água
<b>6</b>		Sem entrada de poeira	<b>6</b>		Proteção contra fortes jatos de água
<b>7</b>			<b>7</b>		Proteção contra os efeitos de imersão temporária
<b>8</b>			<b>8</b>		Proteção contra os efeitos de imersão contínua

### M5.3 Resfriamento

Os motores são ventilados externamente (IEC 411 / NEMA MG1-6 - CEI EN 60034-6) e são equipados com um ventilador de plástico que trabalha nos dois sentidos.

Os motores devem ser instalados de modo a permitir espaço suficiente entre a tampa do ventilador e a parede mais próxima para garantir a entrada de ar livre e permitir o acesso para fins de manutenção no motor e no freio, se fornecido. Ventilação forçada de ar independente (IC 416) pode ser fornecida a pedido (opção U1). Esta solução permite aumentar o fator de serviço do motor quando acionado por um inversor de frequência e funcionando com velocidade reduzida.



#### M5.4 Sentido da rotação

A rotação é possível nos dois sentidos. Se os terminais U1, V1 e W1 estiverem conectados às fases das linhas L1, L2 e L3, a rotação sentido horário (olhando pelo lado eixo) é obtida. Para rotação sentido anti-horário, inverte duas fases.

#### M5.5 Ruído

Níveis de ruído, medidos com o uso do método prescrito pelo Padrão ISO 1680, estão dentro dos níveis máximos especificados pelo Padrão CEI EN 60034-9.

#### M5.6 Vibrações e balanceamento

Os eixos do rotor são equilibrados com meia chaveta montada e enquadram-se na classe de vibração N, segundo o Padrão CEI EN 60034-14.

#### M5.7 Caixa de terminais



A placa do terminal possui 6 pinos para conexão dos orifícios do terminal (execução 9 pinos para tensão de US “Dual Voltage”).

Um terminal de aterramento também é fornecido para ligação do equipamento à terra (aterramento). O número e o tipo dos terminais são exibidos na tabela abaixo.

Para fonte de alimentação do freio, favor leia par. 8 (freio FD), 9 (freio FA).

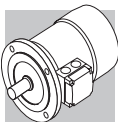
Freios motor abrigam o retificador a.c./d.c. (com cabos já instalados de fábrica) dentro da caixa de terminais. Instruções de cabeamento são fornecidas na própria caixa ou no manual do usuário.

(F10)



		Número de terminais	Fios do terminal	Seção transversal máxima do cabo / bitola
BE 80, BE 90 BN 56 ... BN 71 BN 80, BN 90	ME2 M05, M1 M2	6	M4	2.5
BE 100 ... BE 132 BN 100 ... BN 112 BN 132 ... BN 160MR	ME3, ME4 M3 M4	6	M5	6
BE 160 BN 160M ... BN 180M	ME 5 M5	6	M6	16
BE 180 BN 180L ... BN 200L	— —	6	M8	25
BE 80 ... 132 BN 63 ... BN 160MR	ME2 ... ME4 M05 ... M4	9	M4	6
BE 160 ... BE 180 BN 160M ... BN 200L	ME 5 M5	9	M6	16

#### M5.8 Entrada de cabos

Os furos usados para levar os cabos até as caixas de terminais usam roscas métricas de acordo com o padrão EN 50262, conforme indicado na tabela abaixo.



(F11)


			Dimensões do prensa cabos		Diâmetro do cabo máximo permitido [mm]
<b>BN 63</b>		<b>M05</b>	2 x M20 x 1.5	1 Furo de cada lado	13
<b>BN 71</b>		<b>M1</b>	2 x M25 x 1.5		17
<b>BE 80, BE 90</b> <b>BN 80, BN 90</b>		<b>ME2</b> <b>M2</b>	2 x M25 x 1.5		17
<b>BE 100</b> <b>BN 100</b>		<b>ME3</b> <b>M3</b>	2 x M32 x 1.5 2 x M25 x 1.5	2 Furos de cada lado	21 17
<b>BN 112, BE 112</b>		–	2 x M32 x 1.5 2 x M25 x 1.5		21 17
<b>BE 132</b> <b>BN 132...BN 160MR</b>		<b>ME4</b> <b>M4</b>	4 x M32 x 1.5		21
<b>BE 160, BE 180</b> <b>BN 160M...BN 200L</b>		<b>ME5</b> <b>M5</b>	2 x M40 x 1.5	Rotacionáveis, 4 x 90°	28


### M5.9 Rolamentos

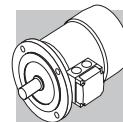
São usados rolamentos de esferas radiais pré-carregados com lubrificação. Os tipos são apresentados no esquema a seguir. Vida útil da resistência calculada  $L_{10h}$ , segundo a ISO 281, na condição não carregada, excede 40000 horas.

**DE** = lado eixo    **NDE** = lado hélice

(F12)

	<b>DE</b>	<b>NDE</b>	
	<b>M, M_FD, M_FA</b>	<b>M</b>	<b>M_FD, M_FA</b>
<b>M05</b>	6004 2Z C3	6201 2Z C3	6201 2RS C3
<b>M1</b>	6004 2Z C3	6202 2Z C3	6202 2RS C3
<b>ME2 - M2</b>	6007 2Z C3	6204 2Z C3	6204 2RS C3
<b>ME3 - M3</b>	6207 2Z C3	6206 2Z C3	6206 2RS C3
<b>ME4 - M4</b>	6309 2Z C3	6308 2Z C3	6308 2RS C3
<b>ME5 - M5</b>	6309 2Z C3	6309 2Z C3	6309 2RS C3

	<b>DE</b>	<b>NDE</b>	
	<b>BE, BN, BN_FD, BN_FA</b>	<b>BE, BN</b>	<b>BN_FD, BN_FA</b>
<b>BN 56</b>	6201 2Z C3	6201 2Z C3	–
<b>BN 63</b>	6201 2Z C3	6201 2Z C3	6201 2RS C3
<b>BN 71</b>	6202 2Z C3	6202 2Z C3	6202 2RS C3
<b>BE 80</b> <b>BN 80</b>	6204 2Z C3	6204 2Z C3	6204 2RS C3
<b>BE 90</b> <b>BN 90</b>	6205 2Z C3	6205 2Z C3	6305 2RS C3
<b>BE 100</b> <b>BN 100</b>	6206 2Z C3	6206 2Z C3	6206 2RS C3
<b>BE 112</b> <b>BN 112</b>	6306 2Z C3	6306 2Z C3	6306 2RS C3
<b>BE 132</b> <b>BN 132</b>	6308 2Z C3	6308 2Z C3	6308 2RS C3
<b>BN 160MR</b>	6309 2Z C3	6308 2Z C3	6308 2RS C3
<b>BE 160M/L</b> <b>BN 160M/L</b>	6309 2Z C3	6309 2Z C3	6309 2RS C3
<b>BN 180M</b>	6310 2Z C3	6309 2Z C3	6309 2RS C3
<b>BE 180M/L</b> <b>BN 180L</b>	6310 2Z C3	6310 2Z C3	6310 2RS C3
<b>BN 200L</b>	6312 2Z C3	6310 2Z C3	6310 2RS C3



## M6 CARACTERÍSTICAS ELÉTRICAS

### M6.1 Tensão



Motores de uma velocidade são fornecidos em execução padrão, seja para tensão nominal 230 / 400 V, 50 Hz, ou 400 / 690 V, 50 Hz, ou 230 / 460 V, 60 Hz com tolerância de tensão de  $\pm 10\%$ , conforme especificado na tabela abaixo.

Em todos os motores BN e M, para os quais a configuração de tensão/frequência não está incluída na tabela abaixo, a tolerância de tensão é reduzida para  $\pm 5\%$ .

Para a operação fora dos limites de tolerância, a temperatura poderá exceder em 10 K o limite previsto pela classe de isolamento adotada.

Os motores são adequados para operação em rede de distribuição europeia com a tensão em conformidade com a publicação IEC 60038.

(F13)


Classe de eficiência			$V_{mot}$ $\pm 10\%$ 3 ~	Configuração
IE2	BE 80 ... 132	ME 2 ... ME 4	230 / 400 V - $\Delta/Y$ - 50 Hz	Padrão
			460 V Y - 60 Hz <sup>1</sup>	Padrão
	BE 160, BE 180	ME 5	400 / 690 V - $\Delta/Y$ - 50 Hz	A pedido, sem custo adicional
			400 / 690 V - $\Delta/Y$ - 50 Hz	Padrão
IE1	BN 56 ... BN 132	M0 ... M4	460 V $\Delta$ - 60 Hz <sup>1</sup>	Padrão
			230 / 400 V - $\Delta/Y$ - 50 Hz	Padrão
	BN 160 ... 200	M5	400 / 690 V - $\Delta/Y$ - 50 Hz	A pedido, sem custo adicional
			460 V Y - 60 Hz	Padrão
			400 / 690 V - $\Delta/Y$ - 50 Hz	Padrão
			460 V $\Delta$ - 60 Hz	Padrão

<sup>1</sup> somente motor 4 polos

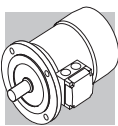
A única tensão nominal para o tipo de motores a 50 Hz e todos os motores de duas velocidades é 400 V. Tolerâncias aplicáveis segundo o padrão CEI EN 60034-1.

A tabela abaixo mostra as opções de cabeamento disponíveis.

(F14)

Número de polos		Conexão da bobina
2	BE 80 ... BE 160, BN 63 ... BN 200	$\Delta / Y$ <sup>(2)</sup>
4	BE 80 ... BE 180, BN 56 ... BN 200	
6	BE 90 ... BE 160, BN 63 ... BN 200	
8	BN 71 ... BN 132	
2/4	BN 63 ... BN 132	$\Delta / YY$ (Dahlander)
2/6	BN 71 ... BN 132	Y / Y (Duas bobinas)
2/8	BN 71 ... BN 132	
2/12	BN 80 ... BN 132	
4/6	BN 71 ... BN 132	
4/8	BN 80 ... BN 132	$\Delta / YY$ (Dahlander)

<sup>(2)</sup> Motores com tensão na relação 2 (ex. 230/460 - 60) serão equipados com uma caixa de terminais com 9 pinos com conexão para bobina, seja  $\Delta\Delta / \Delta$  ou  $YY / Y$  (exceto BN 63 com 6 polos  $\Delta / Y$ )



## M6.2 Frequência

A potência de saída nominal BN / M para operação a 60 Hz é exibida no diagrama abaixo.

(F15)

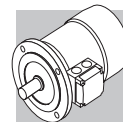
		P <sub>n</sub> [kW]					P <sub>n</sub> [kW]		
		2P	4P	6P			2P	4P	6P
BN 56A	–	–	0.07	–	BN 112M	M3LB	4.7	4.7	2.5
BN 56B	M0B	–	0.10	–	–	M3LC	–	4.7	2.5
BN 63A	M05A	0.21	0.14	0.10	BN 132S	M4SA	–	6.5	3.5
BN 63B	M05B	0.30	0.21	0.14	BN 132SA	M4SB	6.5	–	–
BN 71A	M05C	0.45	0.30	0.21	BN 132SB		8.7	–	–
BN 71B	M05SD	0.65	0.45	0.30	BN 132M	M4LA	11	–	–
BN 80A	M1LA	0.90	0.65	0.45	BN 132MA		–	8.7	4.6
BN 80B	M2SA	1.30	0.90	0.65	BN 132MB	M4LB	–	11	6.5
BN 90S	M2SB	–	1.30	0.90	BN 160MR	M4LC	12.5	12.5	–
BN 90SA		1.8	–	–	BN 160MB	M5SB	17.5	–	–
BN 90L	M3SA	2.5	–	1.30	BN 160M	M5SA	–	–	8.6
BN 90LA		–	1.8	–	BN 160L	M5S	21.5	17.5	12.6
BN 100L	M3LA	3.5	–	–	BN 180M	M5LA	24.5	21.5	–
BN 100LA		–	2.5	1.8	BN 180L	–	–	25.3	17.5
BN 100LB		M3LB	4.7	3.5	2.2	BN 200L	–	–	34
					BN 200LA	–	34	–	22

Motores BE/ME estão disponíveis a 60 Hz somente na configuração 4 polos, e sua potência nominal é a mesma do seu homólogo de 50 Hz. Motores BN/M de dupla polaridade alimentados em 60Hz terão um aumento de potência nominal, a que se refere a 50 Hz, de 15%.

Se uma classificação de potência nominal, igual à classificação de potência nominal normalizada a 50 Hz, foi solicitada para ser incluída na placa de identificação de um motor feito para ser alimentado com tensão a 60 Hz, a opção PN deverá ser especificada na designação do motor. Motores geralmente projetados para uma frequência de 50 Hz poderão ser usados em uma rede operacional de 60 Hz, porém os dados relacionados deverão ser atualizados de acordo com a seguinte tabela. A placa de identificação dos motores projetados para uma frequência de 50 Hz inclui valores para 60 Hz (excluindo motores em configuração CUS e motores com freio). Ver a seguinte tabela.

(F16)

	50 Hz	60 Hz			
	V - 50 Hz	V - 60 Hz	P <sub>n</sub> - 60 Hz	M <sub>n</sub> , M <sub>a</sub> /M <sub>n</sub> - 60 Hz	n [rpm] - 60 Hz
BE/ME	230/400 Δ/Y	265 - 460 Δ Y	1	0.83	1.2
	400/690 Δ/Y	460 Δ			
BN/M	230/400 Δ/Y	220 - 240 Δ			
		380 - 415 Y			
	400/690 Δ/Y	380 - 415 Δ			
BN/M	230/400 Δ/Y	265 - 280 Δ			
		440 - 480 Y			
	400/690 Δ/Y	440 - 480 Δ			



### M6.3 Temperatura ambiente

Os valores de classificação incluídos no catálogo são calculados para condições ambientais normais (temperatura  $-15^{\circ}\text{C} < t_a < 40^{\circ}\text{C}$ ; elevação  $\leq 1000$  m acima do nível do mar) de acordo com o padrão CEI EN 60034-1.

Os motores podem ser usados dentro da faixa de temperatura  $40\text{-}60^{\circ}\text{C}$  com saída de potência nominal ajustada pelos fatores fornecidos na tabela abaixo.

(F17)

Temperatura ambiente ( $^{\circ}\text{C}$ )	100°	115°	120°	130°	140°
potência permitida como % da potência nominal	100%	95%	90%	85%	80%

Se um fator de redução superior a 15% for aplicável, favor consultar a fábrica.

### M6.4 50 HZ de energia normalizada

**PN**

Com esta opção, a placa de identificação do motor incluirá a informação de energia normalizada de 50 Hz mesmo quando o motor for projetado para funcionar com corrente elétrica de 60 Hz. Para alimentação a 60 Hz junto com tensões de 230/460V e 575V, a opção PN é aplicada por padrão.

### M6.5 Motores para EUA e Canadá

**CUS**

Motores BN estão disponíveis na configuração NEMA Projeto tipo C (referente às características elétricas), em conformidade com CSA (padrão canadense) C22.2 n° 100 e UL (Underwriters Laboratory) UL 1004-1 (número de arquivo UL Bonfiglioli E308649). Especificando a opção CUS, a placa de identificação é marcada com os dois símbolos exibidos abaixo.

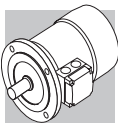


A opção CUS não se aplica a motores servo-ventilados. As redes de energia elétrica dos EUA e as respectivas tensões nominais a serem especificadas para o motor são indicadas na tabela a seguir:

(F18)

Frequência	Tensão da rede	$V_{\text{mot}}$
60 Hz	208 V	<b>200 V</b>
	240 V	<b>230 V</b>
	480 V	<b>460 V</b>
	600 V	<b>575 V</b>

A opção CUS também é aplicável em motores com funcionamento a 50 Hz.



Motores com tensão na relação 2 (ex: 230/460-60; 220/440-60) possuem, de série, uma placa de terminais com 9 pinos. Para as mesmas execuções, bem como para execuções a 575V-60Hz, bem como para alimentação a 575V-60Hz, a classificação nominal coincide com a respectiva classificação para 50Hz. Para motores com freio DC do tipo BN/M\_FD, o retificador é conectado a uma tensão de alimentação de 230 VAC monofásica na caixa de terminais do motor.

A fonte de alimentação de freio para motores com freio é a seguinte:

(F19)

BN_FD M_FD	BN_FA M_FA	Alimentação
Conectada à caixa de terminais 1~230V c.a.	Fonte de alimentação separada 230V Δ	230SA
	Fonte de alimentação separada 460V Y	460SA

## M6.6 Certificação Obrigatória da China

**CCC**

Motores elétricos destinados à comercialização na República Popular da China devem ser certificados nos termos do sistema CCC (Certificação Obrigatória da China). Motores BN de até 7 Nm de torque nominal estão disponíveis com a certificação CCC e uma placa de identificação especial que leva a marca exibida abaixo:



A opção CCC não se aplica a motores servo-ventilados.

## M6.7 Classe de isolamento

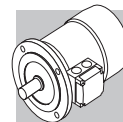
**CL F**

Os motores Bonfiglioli utilizam materiais de isolamento da classe **F** (fios esmaltados, isoladores, resinas de impregnação) em comparação com o motor padrão.

Em motores padrão, a sobretemperatura das bobinas do estator normalmente permanece abaixo do limite de 80 K correspondente à classe de sobretemperatura B.

A seleção cuidadosa dos componentes de isolamento torna os motores compatíveis com climas tropicais e vibração normal.

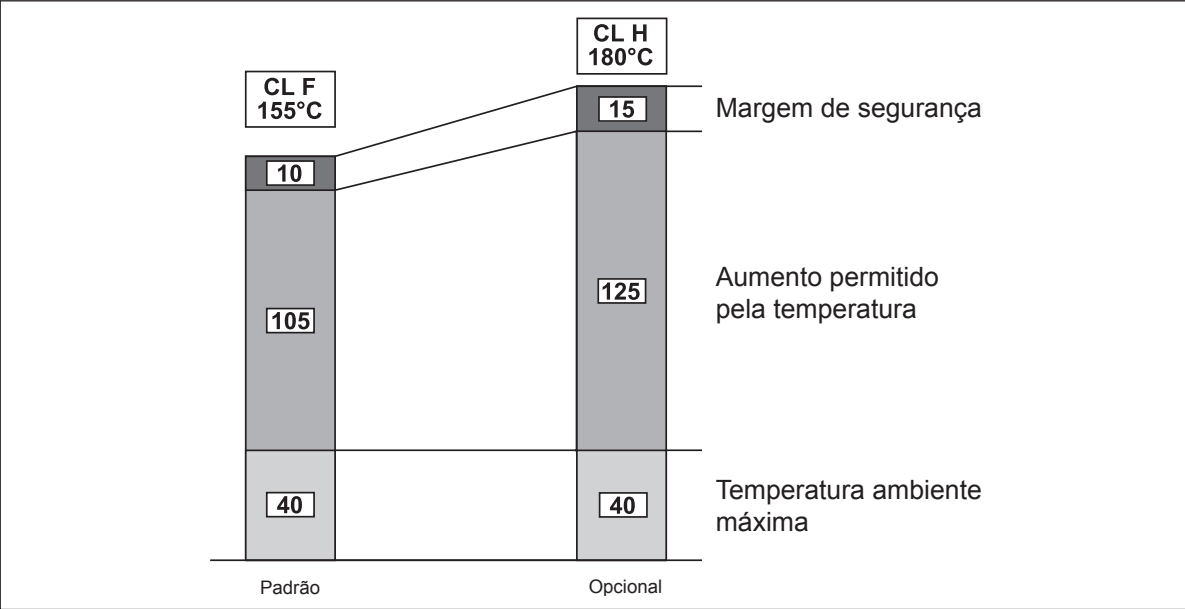
Para aplicações que envolvem a presença de produtos químicos agressivos ou alta umidade, favor contatar a Engenharia da Bonfiglioli para assistência na escolha do produto.



# CL H

Motores produzidos na classe de isolamento **H** estão disponíveis, mediante solicitação. Indisponível para motores em conformidade com os padrões CSA e UL (opção CUS).

(F20)



### M6.8 Tipo de serviço

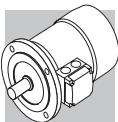
Salvo especificação em contrário, a potência do motor informada no catálogo refere-se ao serviço contínuo S1. Qualquer condição operacional diferente do serviço S1 deverá ser identificada de acordo com as definições de ciclo de serviço estabelecidas no padrão CEI EN 60034-1. Para os ciclos de serviço S2 e S3, o coeficiente de aumento de potência informado na tabela abaixo deverá ser usado. Favor observar que a tabela apresentada abaixo aplica-se a motores de uma velocidade. Como uma alternativa ao serviço contínuo S1, um dos valores abaixo pode ser especificado na etapa de configuração do produto: S2, S3 ou S9. A placa de identificação do motor será marcada com uma potência nominal maior para atender o tipo de serviço, e com dados elétricos específicos e um tipo de serviço de S2-30 min, S3-70% ou S9 respectivamente. Para mais detalhes, favor contatar o Serviço de Assistência Técnica da Bonfiglioli. Favor contatar a Engenharia da Bonfiglioli para obter os coeficientes de aumento de potência aplicáveis motores de dupla polaridade.

(F21)

	Tipo de serviço						
	S2			S3 *			S4 - S9
	Duração (min)			Intermitência (I)			
	10	30 (*)	60	25%	40%	70% (*)	Contato
f <sub>m</sub>	1.35	1.15	1.05	1.25	1.15	1.1	

\* A duração do ciclo deverá, em qualquer caso, ser igual ou menor que 10 minutos; se este tempo for excedido, favor entrar em contato com a nossa Assistência Técnica.  
 (\*) Valores padrão das opções (tab. F05).





### M6.8.1 Fator de duração de ciclo:

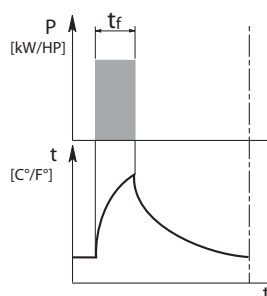
$$I = \frac{t_f}{t_f + t_r} \cdot 100 \quad (01)$$

$t_f$  = tempo de operação a carga constante

$t_r$  = tempo de descanso

### M6.8.2 Serviço S2 com duração limitada

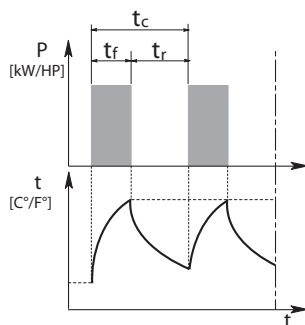
Este tipo de serviço é caracterizado pela operação sob carga constante por um tempo limitado, menor do que o tempo necessário para atingir o equilíbrio térmico, seguido por um período de descanso com duração suficiente para restabelecer a temperatura ambiente no motor.



### M6.8.3 Serviço S3 com intermitência periódica:

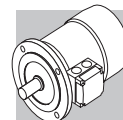
Este tipo de serviço é caracterizado por uma sequência de ciclos de operação idênticos, cada um incluindo um período de operação sob carga constante e um período de descanso.

Para este tipo de serviço, a corrente de partida não influencia significativamente a sobretemperatura.



### M6.9 Motores controlados por inversor

Os motores elétricos Bonfiglioli poderão ser usados em combinação com inversores PWM com tensão nominal a uma entrada de transformador de até 500 V. Motores padrão utilizam um sistema de isolamento de fase com separadores, fios esmaltados classe 2 e resinas de impregnação classe H (capacidade de pulso de tensão pico a pico de 1600V e borda de subida  $t_s > 0,1\mu s$  nos terminais do motor são permitidos). Os motores elétricos Bonfiglioli poderão ser operados continuamente (serviço S1) no modo "turn - down" [modo de redução], ou seja, a frequências menores que a frequência nominal, também doravante chamadas "frequência básica" -  $f_b$ , em relações  $f_b / f$  até 10: 1, de acordo com as tabelas informadas abaixo.



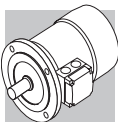
(F22)

OPERAÇÃO DO INVERSOR - TURN-DOWN DADOS DE MOTORES BE																	
4 polos 1800 rpm S1	Operação do inversor Dados do motor 10:1 (60-6Hz) TORQUE CONSTANTE			Operação do inversor Dados do motor 5:1 (60-12Hz) TORQUE CONSTANTE			60HZ fornecem de rede - Dados do motor										
	Tipo	M <sub>6</sub>	N <sub>6</sub>	P <sub>6</sub>	M <sub>12</sub>	n <sub>12</sub>	P <sub>12</sub>	P <sub>n</sub>	n	η	M <sub>n</sub>	In 230V	In 460V	cosφ	Is/In	Jm x 10 <sup>-4</sup>	kVA Code
		[Nm]	[rpm]	[kW]	[Nm]	[rpm]	[kW]	[kW]	[rpm]	%	[Nm]	[A]	[A]		p.u.	[Kg <sup>m</sup> ²]	
BE 80B 4	4.1	125	0.054	4.1	305	0.131	0.75	1745	82.5	4.1	2.92	1.46	0.78	7.6	28	K	
BE 90S 4	6.0	120	0.076	6.0	300	0.190	1.1	1740	84	6.0	4.50	2.25	0.73	7.7	28	L	
BE 90LA 4	7.4	120	0.093	8.2	300	0.259	1.5	1740	84.5	8.2	6.20	3.10	0.73	7.1	34	K	
BE 100LA 4	11.2	125	0.146	12.0	305	0.385	2.2	1745	87.5	12.0	8.40	4.20	0.76	7	54	J	
BE 100LB 4	13.6	115	0.165	16.5	295	0.510	3	1735	87.5	16.5	11.80	5.90	0.76	7	61	K	
BE 112M 4	16.5	130	0.224	20	310	0.655	3.7	1750	87.5	20	13.20	6.60	0.80	7.8	105	K	
BE 132S 4	26	140	0.378	30	320	1.000	5.5	1760	89.5	30	18.60	9.30	0.83	8.7	270	K	
BE 132MA 4	34	140	0.500	41	320	1.364	7.5	1760	89.5	41	25.40	12.70	0.83	8	319	K	
BE 132MB 4	42	140	0.614	50	320	1.673	9.2	1760	90	50	31.20	15.60	0.82	8.3	360	K	
BE 160M 4	51	145	0.774	59	325	2.025	11	1765	91	59	37.40	19	0.81	7.7	650	J	
BE 160L 4	61	150	0.964	73	330	2.522	15	1770	90.5	81	51.00	25.5	0.81	7.1	790	J	
BE 180M 4	75	145	1.139	89	325	3.035	18.5	1765	91.9	100	60.60	30.3	0.83	7.3	1250	H	
BE 180L 4	86	150	1.345	102	330	3.519	22	1770	92.5	119	72.00	36.0	0.83	8.1	1650	J	

(F23)

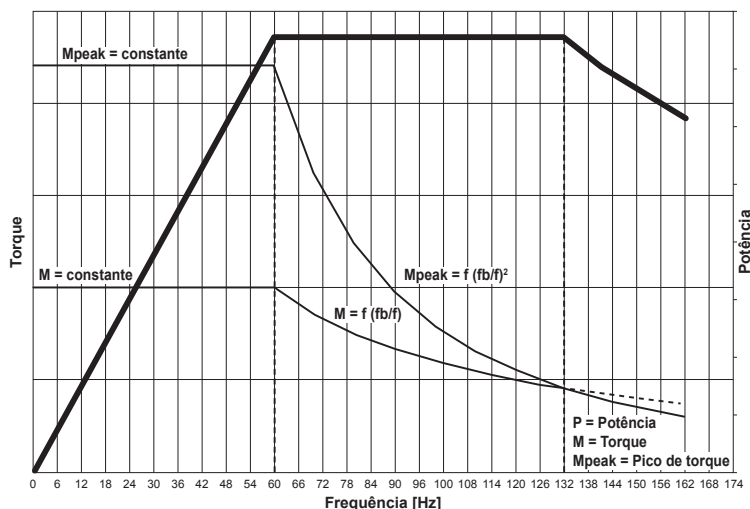
OPERAÇÃO DO INVERSOR - TURN-DOWN DADOS DE MOTORES BN																	
4 polos 1800 rpm S1	Operação do inversor Dados do motor 10:1 (60-6Hz) TORQUE CONSTANTE			Operação do inversor Dados do motor 5:1 (60-12Hz) TORQUE CONSTANTE			60HZ fornecem de rede - Dados do motor										
	Tipo	M <sub>6</sub>	N <sub>6</sub>	P <sub>6</sub>	M <sub>12</sub>	n <sub>12</sub>	P <sub>12</sub>	P <sub>n</sub>	n	η	M <sub>n</sub>	In 230V	In 460V	cosφ	Is/In	Jm x 10 <sup>-4</sup>	kVA Code
		[Nm]	[rpm]	[kW]	[Nm]	[rpm]	[kW]	[kW]	[rpm]	%	[Nm]	[A]	[A]		p.u.	[Kg <sup>m</sup> ²]	
BN 56A 4	0.34	50	0.0018	0.34	230	0.008	0.06	1670	53	0.34	0.52	0.26	0.55	2.9	1.5	J	
BN 56B 4	0.46	50	0.0024	0.51	230	0.012	0.09	1670	59	0.51	0.74	0.37	0.52	2.8	1.5	H	
BN 63A 4	0.58	30	0.0018	0.69	210	0.015	0.12	1650	55	0.69	0.86	0.43	0.64	3.1	2.0	H	
BN 63B 4	0.81	50	0.0043	1.1	230	0.026	0.18	1670	58	1.1	1.36	0.68	0.59	3.1	2.3	H	
BN 71A 4	1.1	80	0.009	1.4	260	0.038	0.25	1700	64	1.4	1.30	0.65	0.74	4.3	5.8	H	
BN 71B 4	1.6	80	0.014	2.1	260	0.057	0.37	1700	66	2.1	1.94	0.97	0.73	4.5	6.9	H	
BN 80A 4	2.4	90	0.023	3.1	270	0.088	0.55	1710	73	3.1	2.56	1.28	0.75	4.9	15.0	H	
BN 80B 4	3.3	100	0.03	4.1	280	0.12	0.75	1720	78	4.1	3.20	1.60	0.75	6.2	20	J	
BN 90S 4	4.5	100	0.05	5.3	280	0.16	1.1	1720	78	6.2	4.86	2.43	0.74	5.7	21	J	
BN 90LA 4	6.2	100	0.06	7.3	280	0.22	1.5	1720	81	8.2	6.24	3.12	0.74	6.6	28	K	
BN 90LB 4	7.3	100	0.08	8.7	280	0.26	1.85	1720	80.4	10.4	7.60	3.80	0.76	6.5	30	K	
BN 100LA 4	8.6	100	0.09	10.2	280	0.30	2.2	1720	81	12.4	9.6	4.8	0.73	5.5	40	H	
BN 100LC 4	11.7	110	0.14	14.0	290	0.43	3.7	1730	84	21	15	7.5	0.74	5.6	61	K	
BN 112M 4	16.6	110	0.19	19.8	290	0.60	4	1730	85	23	16	8	0.76	7.0	98	K	
BN 132S 4	22	110	0.25	26	290	0.80	5.5	1730	84	31	20	10	0.84	6.3	213	H	
BN 132MA 4	29	120	0.36	34	300	1.07	7.5	1740	85	41	26.2	13.1	0.84	6.1	270	H	
BN 132MB 4	34	130	0.46	40	310	1.29	9.2	1750	86.4	50	33.0	16.5	0.81	6.8	319	J	
BN 160MR 4	40	120	0.50	47	300	1.48	11	1740	88	61	38.8	19.4	0.81	6.5	360	H	
BN 160L 4	55	130	0.75	66	310	2.13	15	1750	90	81	49.6	24.8	0.84	5.8	651	G	
BN 180M 4	68	140	1.00	81	320	2.72	18.5	1760	90	101	62.6	31.3	0.83	5.8	792	G	
BN 180L 4	79	140	1.16	94	320	3.15	22	1760	89.6	121	78.0	39.0	0.79	6.8	1252	H	
BN 200L 4	99	140	1.46	118	320	3.96	30	1760	90.5	162	104.0	52.0	0.80	8.4	1652	K	

Símbolo: M<sub>6</sub> Torque em 6 Hz      n<sub>6</sub> Velocidade em 6 Hz      P<sub>6</sub> Potência de saída em 6 Hz  
M<sub>12</sub> Torque em 12 Hz      n<sub>12</sub> Velocidade em 12 Hz      P<sub>12</sub> Potência de saída em 12 Hz



Em motores autoventilados (IC411), a capacidade de resfriamento poderá ser prejudicada a frequências inferiores a 60 Hz devido à baixa velocidade, portanto o torque permitido é reduzido de forma correspondente, conforme as tabelas acima. O uso de dispositivos de proteção térmica (ver a seção de opções deste catálogo) é fortemente recomendado quando um sistema “turn down” de 5:1 (ou superior, até 10:1) for operado, a fim de garantir a segurança do motor em caso de superaquecimento acidental. Para um resfriamento mais eficaz, mesmo nas mais baixas frequências, motores equipados com um sistema de ventilação forçada (ou seja, servo ventilador) também poderão ser disponibilizados - favor contatar o Departamento Técnico da Bonfiglioli para mais informações. Para operação acima da frequência básica  $f_b$ , ao atingir a tensão de saída máxima do inversor, o motor entra em um campo de operação sob potência constante também chamado de faixa de “enfraquecimento de campo”, e o torque do eixo diminui com a relação  $f/f_b$ . À medida que o torque máximo do motor diminui com uma relação  $(f/f_b)^2$ , a capacidade de sobrecarga permitida do motor deve ser reduzida progressivamente acima de uma determinada velocidade, dependendo do motor. As seguintes curvas de Torque/Potência vs Frequência servem para referência:

- Linhas sólidas - curvas teóricas (Torque: linha fina; Potência: linha grossa);
- Linhas tracejadas - dependendo do tamanho do motor, abaixo da frequência básica  $f_b = 60$  Hz, a capacidade de torque, assim como a potência do motor, poderão ser significativamente reduzidas (ver as tabelas de “turn - down” acima) devido à diminuição do resfriamento.
- Linha pontilhada - valores de torque teóricos além da curva de torque máximo

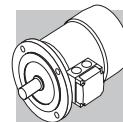


**OBSERVAÇÃO IMPORTANTE:** os dados de “turn - down” informados foram elaborados empiricamente e deverão ser considerados como indicativos. Favor contatar o Departamento Técnico da Bonfiglioli para mais detalhes. A tabela abaixo informa o limite de velocidade mecânica para motores que operam acima da frequência nominal:

(F24)

		n [rpm]		
		2p	4p	6p
≤ BE 112 - BN 112	ME2, ME3 M05 ... M3	5200	4000	3000
≥ BE 132 - BN 132	ME4, ME5 M4, M5	4500	4000	3000

Acima da velocidade nominal, vibrações mecânicas e ruídos poderão ocorrer nas partes rotativas do motor. Balanceamento de rotor Classe B é altamente recomendado para essas aplicações. Um ventilador de resfriamento com alimentação separada também pode ser aconselhável. Ventilador e freio (se equipados) controlados remotamente devem ser sempre conectados diretamente na rede de energia elétrica.



## M6.10 Partidas permissíveis por hora, Z

Os esquemas de classificação de motores com freio emprestam o número de partidas permitidas  $Z_0$ , com base em 50% de intermitência e para operação sem carga.

O valor no catálogo representa o número máximo de partidas por hora do motor sem exceder a temperatura nominal da classe de isolamento F.

Para dar um exemplo prático de uma aplicação caracterizada pela inércia  $J_c$ , absorvendo potência  $P_r$  e exigindo torque médio na partida  $M_L$ , o número real de partidas por hora do motor pode ser calculado aproximadamente através da seguinte equação:

$$Z = \frac{Z_0 \cdot K_c \cdot K_d}{K_J} \quad (02)$$

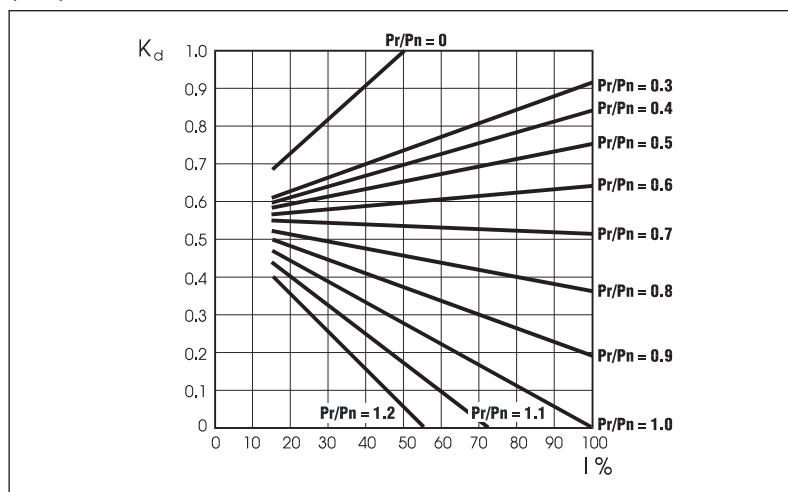
onde:

$$K_J = \frac{J_m + J_c}{J_m} \quad \text{fator de inércia}$$

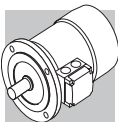
$$K_c = \frac{M_a - M_L}{M_a} \quad \text{fator de torque}$$

$$K_d = \quad \text{fator de carga, ver a tabela abaixo}$$

(F25)



Se o número real de partidas por hora estiver dentro do valor permitido ( $Z$ ), poderá valer a pena verificar se a operação de frenagem é compatível com a capacidade (térmica) do freio  $W_{max}$  também informada nas tabelas (F31), (F39) e dependente do número de alternadores (c/h).

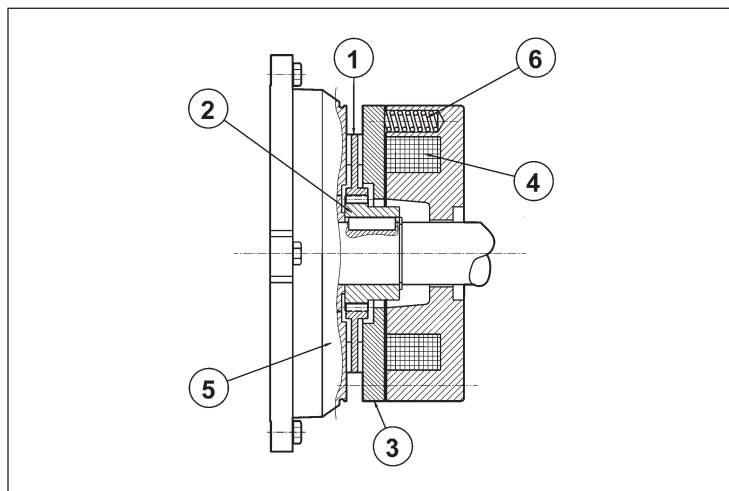


## M7 MOTORES COM FREIO ASSÍNCRONOS

### M7.1 Operação

Versões com freio incorporado usam freios DC com molas (opção FD) ou AC (opção FA). Todos os freios são projetados para proporcionar uma operação à prova de falhas, o que significa que eles são aplicados pela ação das molas no caso de falta de energia.

(F26)



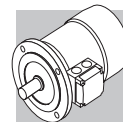
Chave:

- ① disco de freio
- ② cubo do freio
- ③ placa de pressão
- ④ bobina de freio
- ⑤ protetor traseiro do motor
- ⑥ molas do freio

Quando a tensão é interrompida, molas de pressão empurram a placa da armadura contra o disco de freio. O disco fica preso entre a placa da armadura e a proteção do motor e interrompe a rotação do eixo. Quando a bobina é energizada, um campo magnético forte o suficiente para superar a ação das molas atrai a placa da armadura de modo que o disco de freio – que é integrado ao eixo do motor – é liberado.

### M7.2 Características mais importantes

- Altos torques de frenagem (normalmente  $M_b \approx 2 M_n$ ), ajuste do torque de frenagem.
- Disco de freio de aço com revestimento de fricção duplo (baixo desgaste, revestimento sem amianto).
- Assento hexagonal na ponta do ventilador do eixo do motor (N.D.E.) para rotação manual (incompatível com as opções PS, RC, TC, U1, U2, EN1, EN2, EN3, EN4, EN5, EN6).
- Alavanca de liberação manual (opções R e RM para BN/M\_FD; opção R para BN/M\_FA).
- Tratamento anticorrosivo em todas as superfícies do freio.
- Classe de isolamento F.

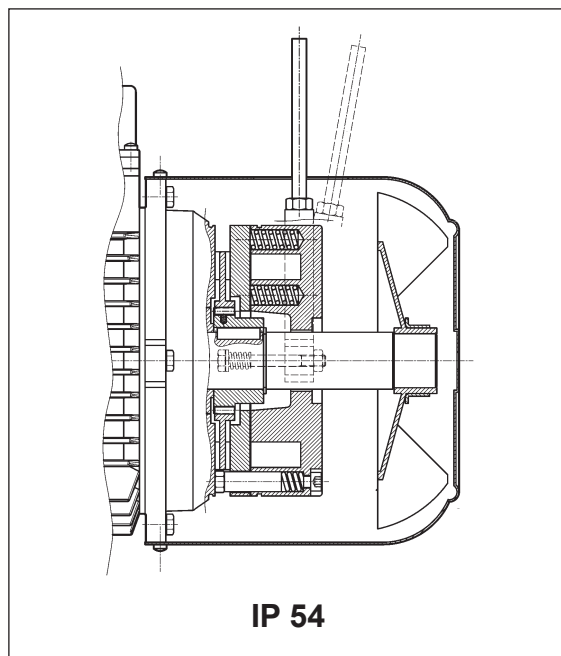


## M8 MOTORES COM FREIO DC DOS TIPOS BN\_FD e M\_FD

Tamanhos de quadro: BN 63 ... BN 200L / M05 ... M5

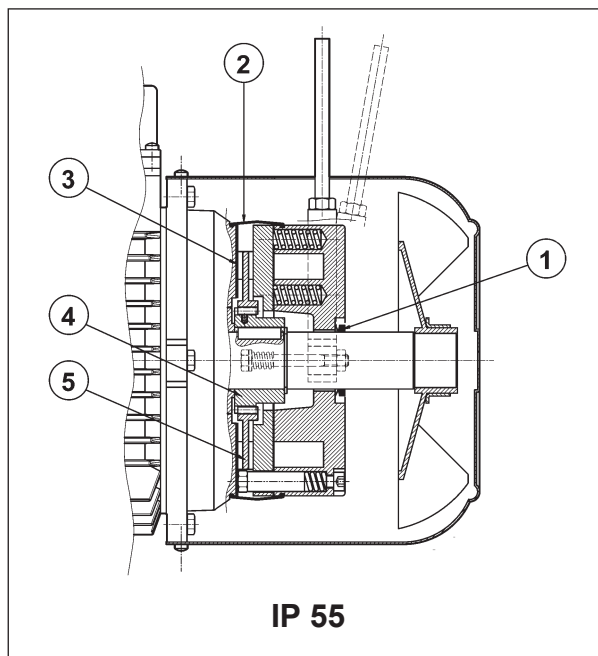
BE/ME podem ser disponibilizados equipados com freio FD. Para mais informações, favor contatar nosso Departamento Técnico.

(F27)



IP 54

(F28)



IP 55

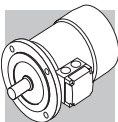
**Freio eletromagnético com bobina toroidal e corrente direta** aparafusado na proteção do motor. Molas pré-carga proporcionam um posicionamento axial do corpo magnético. O disco de freio desliza axialmente no cubo de aço contraído no eixo do motor com dispositivo antivibração. A configuração de fábrica do torque do freio é indicada nos respectivos esquemas de classificação de motores. O torque de frenagem poderá ser modificado com a alteração do tipo e/ou número de molas. Mediante solicitação, os motores poderão ser equipados com alavanca de liberação manual com retorno automático (**R**) ou sistema para manter o freio na posição liberado (**RM**). Ver variante no parágrafo "SISTEMAS DE LIBERAÇÃO DE FREIO" para saber os locais disponíveis para a alavanca de liberação. Freios FD garante um excelente desempenho dinâmico com baixo ruído. As características de operação do freio DC poderão ser otimizadas para atender os requisitos da aplicação escolhendo entre as várias opções disponíveis de retificador, fonte de alimentação e conexão da fiação.

**Para aplicações que envolvem elevação e/ou alta dissipação de energia por hora, favor contatar o Serviço Técnico da Bonfiglioli.**

### M8.1 Grau de proteção

A classe de proteção padrão é IP54. Motor com freio FD também está disponível na classe de proteção **IP55**, o que obriga as seguintes variantes:

- ① Anel de Vedação em "V" no N.D.E. do eixo do motor
- ② capa de borracha à prova de água e poeira
- ③ anel de aço inoxidável colocado entre o protetor do motor e o disco de freio
- ④ cubo de aço inoxidável
- ⑤ disco de freio de aço inoxidável

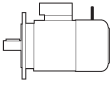
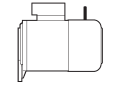


## M8.2 Fonte de alimentação do freio FD

Um retificador acomodado dentro da caixa de terminais alimenta a bobina do freio DC. A conexão da fiação entre o retificador e a bobina do freio é feita na fábrica.

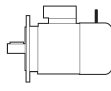
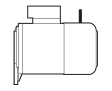
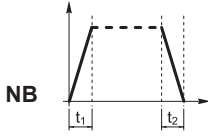
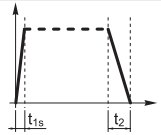
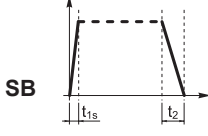
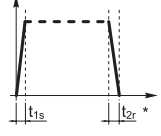
Em todos os motores de uma polaridade, o retificador é acomodado na placa de terminais do motor. A tensão  $V_B$  da fonte de alimentação padrão do retificador é indicada na tabela abaixo, independentemente da frequência da rede:

(F29)

2, 4, 6 P				1 speed	
		BN_FD / M_FD $V_{mot} \pm 10\%$ 3 ~	$V_B \pm 10\%$ 1 ~	freio conectado à fonte de alimentação da placa de terminais	fonte de alimentação separada
BN 63...BN 132	M05...M4LB	230/400 V – 50 Hz	230 V	padrão	especificar $V_B$ SA or $V_B$ SD
BN 160...BN 200	M4LC...M5	400/690 V – 50 Hz	400 V	padrão	especificar $V_B$ SA or $V_B$ SD
BN 63...BN 200	M05...M5	230/400 V – 60 Hz	230 V	padrão	especificar $V_B$ SA or $V_B$ SD

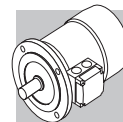
O retificador de meia onda de diodo ( $V_{DC} \approx 0,45 \times V_{AC}$ ) está disponível nas versões **NB**, **SB**, **NBR** e **SBR**, conforme detalhado na tabela abaixo:

(F30)

		freio	padrão	a pedido
BN 63	M05	FD 02		
BN 71	M1	FD 03		
		FD 53		
BN 80	M2	FD 04		
BN 90S	—	FD 14		
BN 90L	—	FD 05		
BN 100	M3	FD 15		
—		FD 55		
BN 112	—	FD 06S		
BN 132...160MR	M4	FD 56		
BN 160L - BN 180M	M5	FD 06		
BN 180L - BN 200L	—	FD 07		

(\*)  $t_{2c} < t_{2r} < t_2$

Retificador **SB** com controle eletrônico de energização sobre-energiza o eletroímã na partida para reduzir o tempo de resposta de liberação do freio e então alternar para a operação de meia onda normal quando o freio tiver sido liberado.



O uso do retificador **SB** é obrigatório no caso de:

- alto número de operações por hora
- tempo de resposta de liberação do freio reduzido
- freio exposto a estresse térmico extremo.

Retificadores **NBR** ou **SBR** estão disponíveis para aplicações que exigem rápida resposta de intervenção do freio (restabelecimento da condição de frenagem).

Estes retificadores complementam os tipos **NB** e **SB** uma vez que seu circuito eletrônico incorpora um alternador estático que desenergiza o freio rapidamente no caso de falta de energia.

Este arranjo garante curto tempo de resposta de liberação do freio sem necessidade de fiação externa e contatos adicionais. O desempenho ideal dos retificadores **NBR** e **SBR** é alcançado com fonte de alimentação do freio separada.

**Versões disponíveis: 230Vac ±10%, 400Vac ± 10%, 50/60 Hz (com fonte de alimentação); 100Vdc ±10%, 180Vdc ± 10% (com a opção SD).**

### M8.3 Especificações técnicas do freio FD

A tabela abaixo informa as especificações técnicas dos freios FD do tipo DC.

(F31)

Freio	Torque de freio $M_b$ [Nm]			Liberação		Frenagem		$W_{m\acute{a}x}$ por operação de freio			W	P
	molas			$t_1$	$t_{1s}$	$t_2$	$t_{2c}$	[ J ]				
	6	4	2	[ms]	[ms]	[ms]	[ms]	10 s/h	100 s/h	1000 s/h		
FD02	–	3.5	1.75	30	15	80	9	4500	1400	180	15	17
FD03	5	3.5	1.75	50	20	100	12	7000	1900	230	25	24
FD53	7.5	5	2.5	60	30	100	12					
FD04	15	10	5	80	35	140	15	10000	3100	350	30	33
FD14												
FD05	40	26	13	130	65	170	20	18000	4500	500	50	45
FD15	40	26	13	130	65	170	20					
FD06S	60	40	20	–	80	220	25	20000	4800	550	70	55
FD56	–	75	37	–	90	250	20	29000	7400	800	80	65
FD06		100	50		100	250	20					
FD07	150	100	50	–	120	200	25	40000	9300	1000	130	65
FD08*	250	200	170	–	140	350	30	60000	14000	1500	230	100
FD09**	400	300	200	–	200	450	40	70000	15000	1700	230	120

\* valores de torque do freio, obtidos com 9, 7 e 6 molas, respectivamente

\*\* valores de torque do freio, obtidos com 12, 9 e 6 molas, respectivamente

$t_1$  = tempo de liberação do freio com retificador de meia onda

$t_{1s}$  = tempo de liberação do freio com retificador de sobre-energização

$t_2$  = tempo de operação do freio com interrupção da linha AC e fonte de alimentação separada

$t_{2c}$  = tempo de operação do freio com interrupção das linhas AC e DC – Valores para  $t_1$ ,  $t_{1s}$ ,  $t_2$ ,  $t_{2c}$  indicados na tabela. (F30) referem-se ao conjunto de freio com torque máximo, distância no entreferro média e tensão nominal

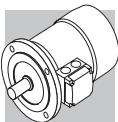
$W_{m\acute{a}x}$  = energia máxima por operação do freio

W = energia de frenagem entre dois ajustes sucessivos da distância no entreferro

$P_b$  = absorção de potência do freio a 20°C

**O desgaste das pastilhas de freio depende das condições operacionais/ambientais (temperatura, umidade, velocidade angular, pressão específica); Portanto, a taxa de desgaste declarada deve ser considerada um indicativo.**





## M8.4 Conexões do freio FD

Nos motores de uma polaridade, o retificador é conectado na placa de terminais do motor na fábrica. Para motores de dupla polaridade e quando uma fonte de alimentação de freio separada for necessária, a conexão com o retificador deverá cumprir a tensão de freio VB indicada na placa de identificação do motor.

**Como a carga é do tipo indutivo, o controle do freio e a interrupção da linha DC devem usar contatos da classe de uso AC-3 com o padrão IEC 60947-4-1.**

Tabela (F32) – Fonte de alimentação do freio a partir dos terminais do motor e interrupção da linha AC

Tempo de interrupção retardado  $t_2$  e função de constantes de tempo do motor.

Obrigatório quando partidas lentas/paradas forem necessárias.

Tabela (F33) – Bobina do freio com fonte de alimentação separada e interrupção da linha AC

Tempo de parada normal independente do motor.

Os tempos de parada alcançados  $t_2$  estão indicados na tabela (F31).

Tabela (F34) – Fonte de alimentação da bobina do freio a partir dos terminais do motor e interrupção da linha AC/DC.

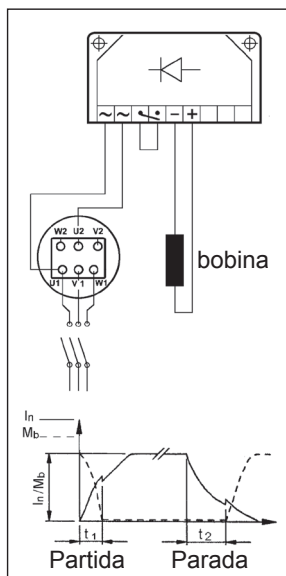
Parada rápida com tempos de operação  $t_{2c}$  conforme tabela (F31).

Tabela (F35) – Bobina do freio com fonte de alimentação separada e interrupção da linha AC/DC.

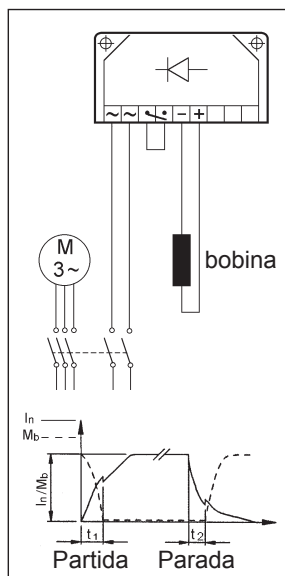
Tempo de parada diminui conforme valores  $t_{2c}$  indicados na tabela (F31).

O freio poderá ser alimentado por tensão diretamente da caixa de terminais do motor (da tab. F32 até tab. F35) somente se a tensão nominal do freio for a mesma que a menor tensão do motor.

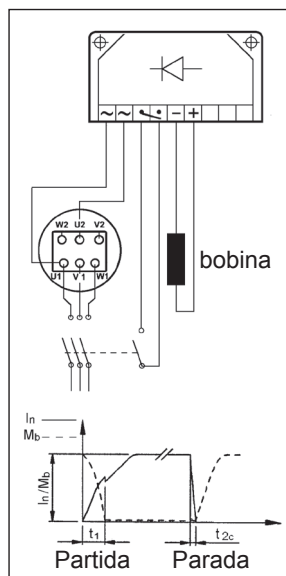
(F32)



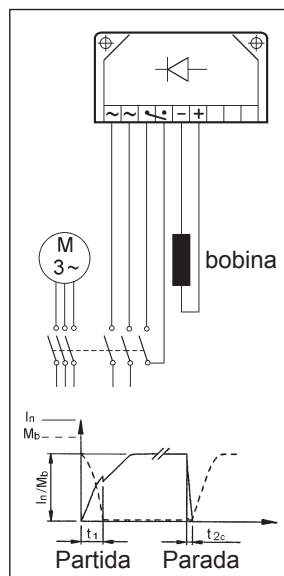
(F33)



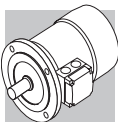
(F34)



(F35)







## M9.2 Fonte de alimentação do freio FA

Em motores de uma velocidade, a alimentação é trazida para a bobina do freio diretamente da caixa de terminais do motor. Consequentemente, a tensão do freio e a tensão do motor são as mesmas. Neste caso, a indicação de tensão do freio poderá ser omitida na designação.

Motores de dupla polaridade e motores com fonte de alimentação do freio separada possuem uma placa de terminais auxiliar com 6 terminais para conexão à linha do freio. Nos dois casos, a indicação da tensão do freio na designação é obrigatória.

A tabela a seguir informa as classificações padrão da fonte de alimentação de freio AC para motores de um único polo:

(F38)

motor unipolar	BN 63...BN 132	BN 160...BN 180
	230Δ / 400Y V ±10% – 50 Hz	400Δ/ 690Y V ±10% – 50 Hz
	265Δ / 460Y ±10% - 60 Hz	460Y – 60 Hz

Salvo especificação em contrário, a alimentação padrão do freio é de 230Δ / 400Y V - 50 Hz.

Tensões especiais na faixa 24...690 V, 50-60 Hz estão disponíveis mediante solicitação.

Freios FA para motores cuja tensão esteja na relação 2 (ex: 230 - 460 V - 60Hz) só podem ser fornecidos separadamente (opção SA).

## M9.3 Especificações técnicas dos freios FA

(F39)

Freio	Torque de freio $M_b$ [Nm]	Liberação $t_1$ [ms]	Frenagem $t_2$ [ms]	$W_{max}$ [ J ]			W [MJ]	P [VA]
				10 s/h	100 s/h	1000 s/h		
FA 02	3.5	4	20	4500	1400	180	15	60
FA 03	7.5	4	40	7000	1900	230	25	80
FA 04	15	6	60	10000	3100	350	30	110
FA 14								
FA 05	40	8	90	18000	4500	500	50	250
FA 15								
FA 06S	60	16	120	20000	4800	550	70	470
FA 06	75	16	140	29000	7400	800	80	550
FA 07	150	16	180	40000	9300	1000	130	600
FA 08	250	20	200	60000	14000	1500	230	1200

$M_b$  = torque de frenagem estática máximo (±15%)

$t_1$  = tempo de liberação do freio

$t_2$  = tempo de operação do freio

$W_{max}$  = energia máxima por operação do freio (capacidade térmica do freio)

W = energia de frenagem entre dois ajustes sucessivos da distância no entreferro

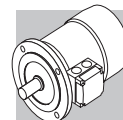
$P_b$  = energia absorvida pelo freio a 20° (50 Hz)

s/h = partidas por hora

N.B.

Valores  $t_1$  e  $t_2$  informados na tabela referem-se ao conjunto de freio com torque nominal, distância no entreferro média e tensão nominal.

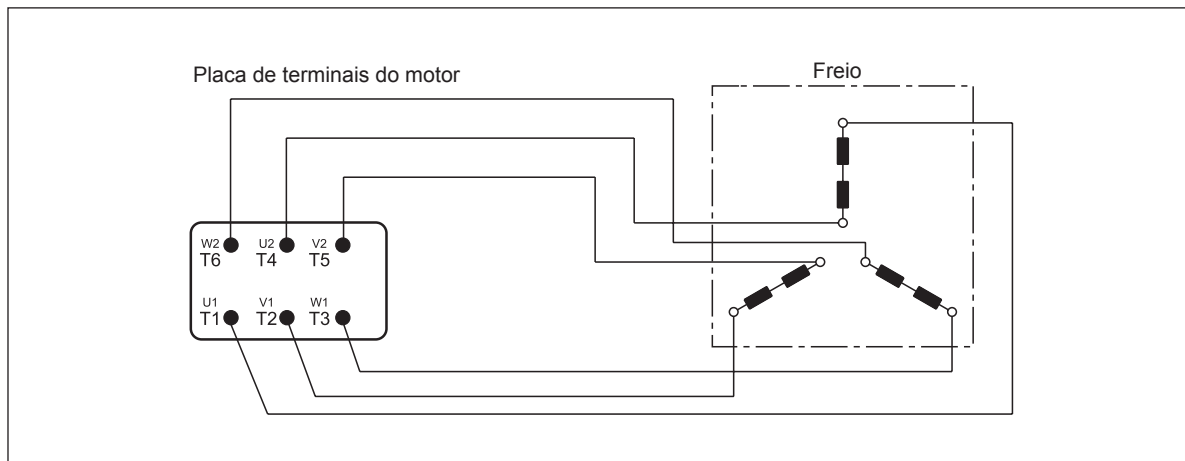
**O desgaste das pastilhas de freio depende das condições operacionais/ambientais (temperatura, umidade, velocidade angular, pressão específica); Portanto, a taxa de desgaste declarada deve ser considerada um indicativo.**



## M9.4 Conexões do freio FA

O diagrama abaixo mostra a fiação quando o freio é conectado diretamente à mesma fonte de alimentação do motor:

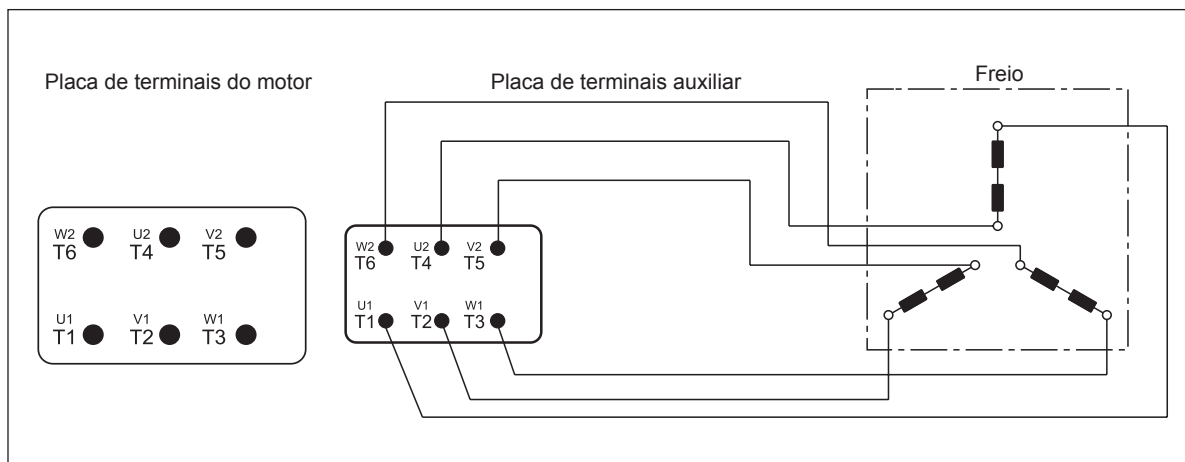
(F40)



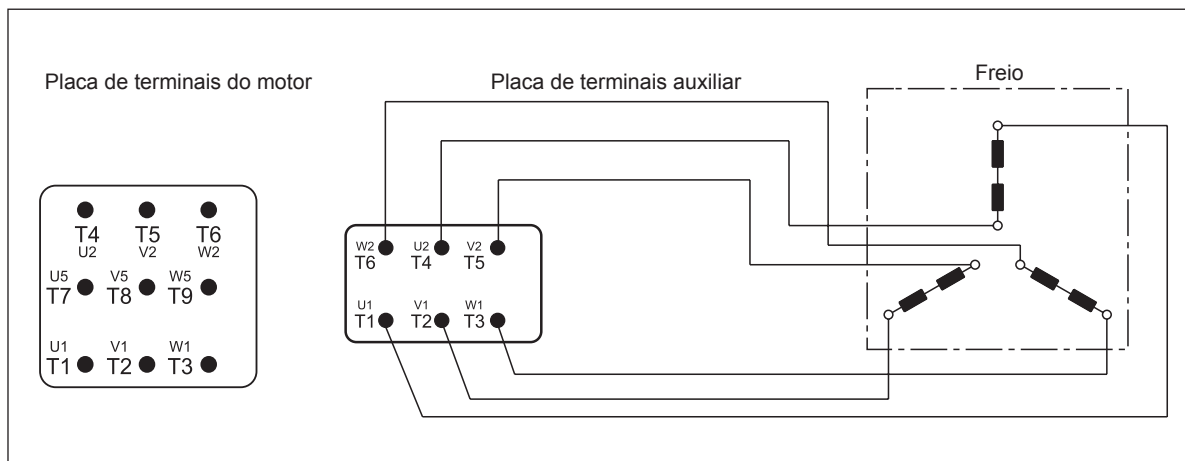
Motores de dupla polaridade e, mediante solicitação, motores de uma polaridade com fonte de alimentação separada são equipados com uma placa de terminais auxiliar com 6 terminais para conexão do freio.

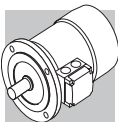
Nesta versão, os motores possuem uma caixa de terminais maior. Ver diagrama abaixo:

(F41)



(F42)



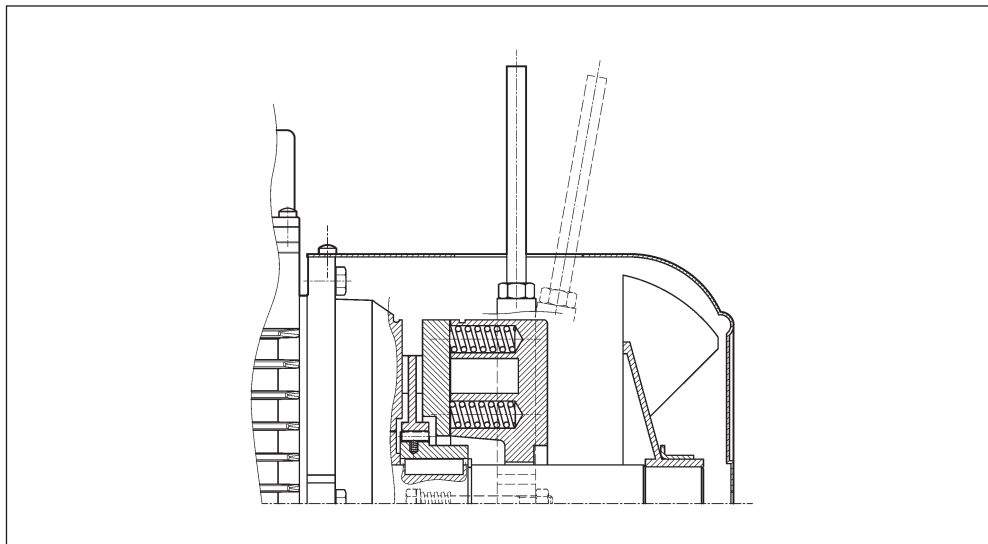


## M10 SISTEMA DE LIBERAÇÃO DO FREIO

Freios a mola dos tipos FD e FA podem ser equipados com dispositivos de liberação manual adicionais. Estes são normalmente utilizados para liberar manualmente o freio antes da manutenção de qualquer máquina ou peças da fábrica operadas pelo motor.

R

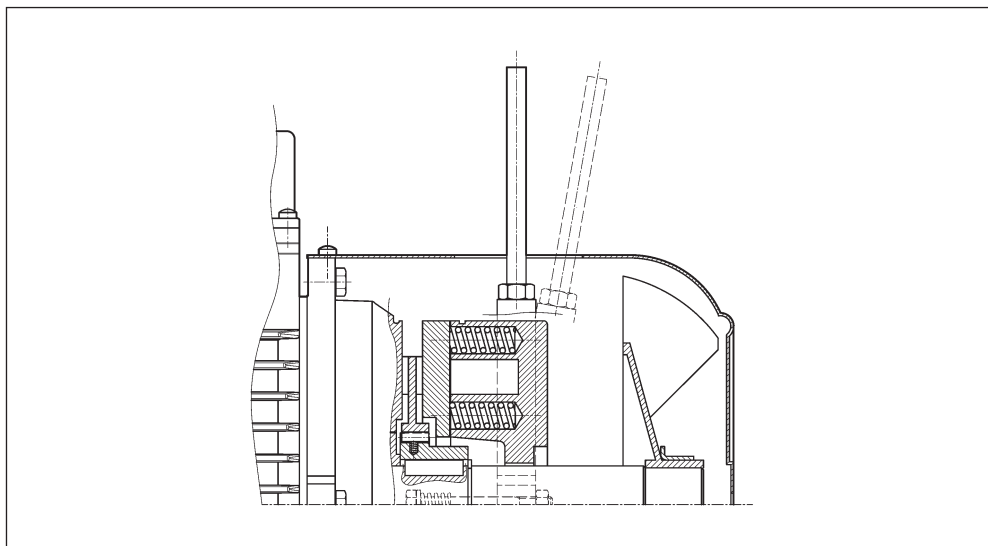
(F43)



Uma mola de retorno traz a alavanca de liberação de volta à sua posição original.

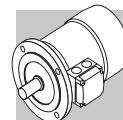
RM

(F44)



Nos motores do tipo BN\_FD, se a opção RM for especificada, o dispositivo de liberação poderá ser travado na posição "liberar" apertando a alavanca até sua extremidade encaixar em uma projeção da caixa do freio.

A disponibilidade dos diversos dispositivos de desengate é exibido no esquema abaixo:



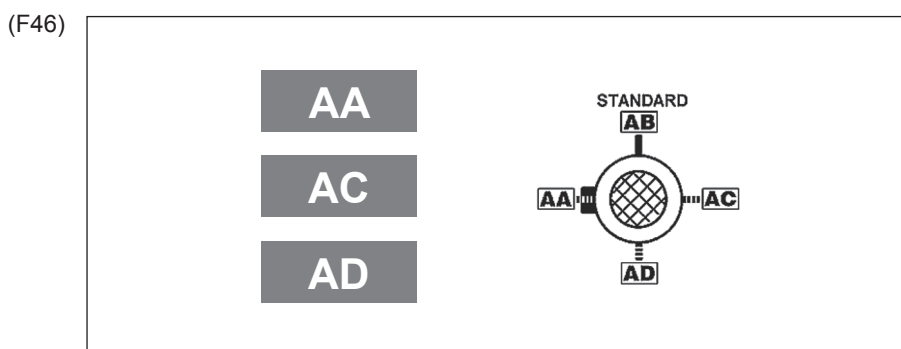
(F45)

	R	RM
BN_FD	BN 63...BN 200	BN 63 ... BN 132 FD07
BN_FA	BN 63...BN 180M	

### M10.1 Orientação da alavanca de liberação

Salvo especificação em contrário, a alavanca de liberação está localizada a 90° de distância da caixa de terminais – identificada pelas letras[AB] no diagrama abaixo – no sentido horário em ambas as opções R e RM.

Posições de alavanca alternativas [AA], [AC] e [AD] também são possíveis quando a opção correspondente for especificada:





## M11 OPÇÕES

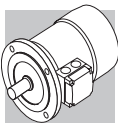
### M11.1 Partida/parada suave

#### F1

Um volante opcional - opção F1 - está disponível para aplicações que exigem partida ou parada suave. A inércia adicionada pelo volante usa energia cinética durante a partida e retorna a mesma durante a frenagem, obtendo, assim, cargas de choque mais progressivas e graduais. O volante opcional está disponível para motores com freio do tipo BN\_FD com características específicas detalhadas na tabela abaixo:

(F47)

Principais dados do volante por tipo de motor: BN_FD, M_FD			
		Peso do Volante [Kg]	Inércia do Volante [Kgm <sup>2</sup> ]
BN 63	M05	0.69	0.00063
BN 71	M1	1.13	0.00135
BN 80	M2	1.67	0.00270
BN 90 S - BN 90 L	–	2.51	0.00530
BN 100	M3	3.48	0.00840
BN 112	–	4.82	0.01483
BN 132 S - BN 132 M	M4	6.19	0.02580



## M11.2 Filtro capacitivo

**CF**

Um filtro capacitivo opcional está disponível para motores com freio DC somente do tipo BN\_FD. Quando o filtro capacitivo adequado é instalado antes do retificador (opção CF), os motores cumprem os limites de emissão exigidos pelo padrão EN61000-6-3:2007 “Compatibilidade Eletromagnética– Padrão de Emissão Genérica – Parte 6-3: Ambiente residencial, comercial e de iluminação industrial”.

## M11.3 Dispositivos de proteção térmica

Além da proteção padrão fornecida pelo dispositivo termomagnético, os motores podem ser fornecidos com sensores térmicos internos para proteger a bobina contra o superaquecimento causado por ventilação insuficiente ou por um serviço intermitente.

Esta proteção adicional deve ser sempre especificada para motores servoventilados (IC416).

## M11.4 Termistores

**E3**

Estes são semicondutores com variação rápida da resistência quando se aproximam da temperatura nominal de desligamento de 150°C. Variações da  $R = f(T)$  características são especificadas pelos padrões DIN 44081, IEC 34-11. Termistores com coeficiente de temperatura positiva são geralmente utilizados (também conhecidos como PTC “resistores de condutor frio”). Termistores não podem controlar relés diretamente e devem ser conectados a um dispositivo de desconexão adequado. Assim protegido, três PTCs conectados em série são instalados na bobina, cujos terminais estão localizados na placa de terminais auxiliar.

**K1**

As características de projeto deste subgrupo de termistores PTC permitem que eles sejam usados como sensores com coeficiente de temperatura positiva com resistência variável.

Faixa de temperatura de funcionamento: 0°C ... +260°C.

Termistores não podem controlar relés diretamente e devem ser conectados a um dispositivo de desconexão adequado.

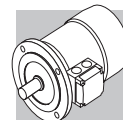
Terminais (polarizados) para 1 x KTY 84-130 são fornecidos em uma régua de terminais auxiliar.

## M11.5 Termostatos bimetálicos

**D3**

Estes tipos de dispositivos de proteção abrigam um disco bimetálico. Quando a temperatura nominal de desligamento de 150°C é atingida, o disco alterna os contatos de sua posição inicial de repouso. Conforme a temperatura diminui, o disco e os contatos retornam automaticamente à posição de repouso.

Três termostatos bimetálicos conectados em série são geralmente empregados, com contatos normalmente fechados. Os terminais estão localizados em uma placa de terminais auxiliar.



## M11.6 Conector de Plug

### CON

Três tipos de conectores (CON 1, CON 2, CON 3) são fornecidos; eles podem ser montados em duas posições diferentes: lado direito da tampa da caixa de terminais (C1D, C2D, C3D); lado esquerdo da tampa da caixa de terminais (C1S, C2S, C3S). A opção CON é aplicável a motores BN e M (2, 4, 6, 8 polos), e aos motores BE e ME sobre os tamanhos especificados na tabela a seguir. Todos os motores de dupla polaridade são excluídos. Os Conectores CON 1 / CON 2 estão disponíveis para motores BE e BN sem freio e para motofreios BN equipados com freio DC tipo FD, para os tamanhos de motores listados abaixo. **O conector macho (com pinos) é montado no motor, o conector fêmea não é fornecido.**

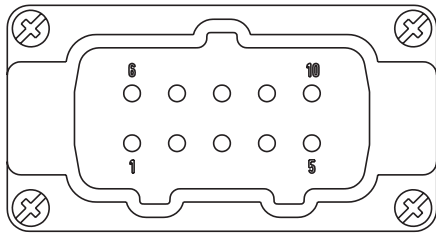
**Com a opção CON, a ligação será sempre Y.**

Com a opção U1 "ventilação forçada", o fornecimento de unidade de ventilação está disponível dentro da caixa terminal separado fixo à tampa do ventilador. Com as opções EN1 ... EN6, a conexão do encoder é feita por um cabo não conectado ao conector do motor.

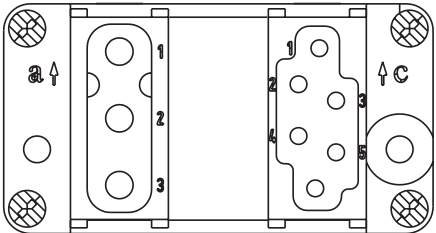
A opção CON não é aplicável a motor-freios equipados com freio AC tipo FA. A opção CON não está disponível quando pelo menos uma das seguintes opções são selecionadas: U2, CUS, IC.

### Especificações

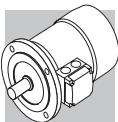
(F49)

Opção	CON 1
Tamanho do motor	BE 80 ... BE 112 / ME2, ME3 / BN 63 ... BN 112 / M05 ... M3
Vista do conector	
Tipo de conector	Harting Han 10ES
Caixa	Han EMC 10B com 2 alavancas
Número de pinos - corrente nominal	10 x 16A
Tensão	500 Vac
Conexão do contato	Régua de Bornes

(F48)

Opção	CON 2
Tamanho do motor	BE 80 ... BE 132M / ME4 / BN 63 ... BN 132M / M05 ... M4L
Vista do conector	
Tipo de conector	Harting Han Modular
Caixa	Han EMC 10B com 2 alavancas
Tipo de módulo	Módulo C + Módulo vazio + Módulo E
Número de pinos - corrente nominal	3 x 36A / 6 x 16A
Tensão	500 Vac
Conexão do contato	Contatos a crimpar

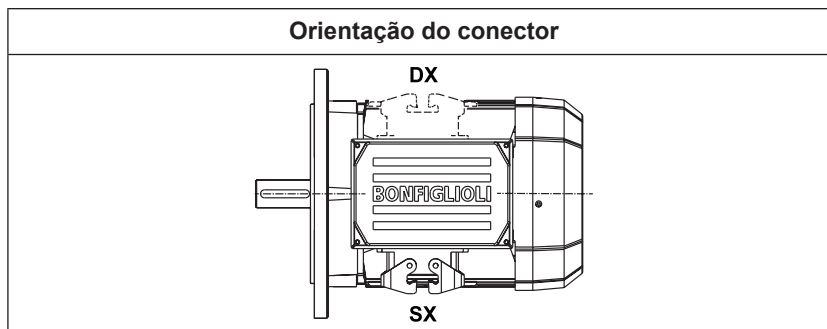




(F50)

Opção	<b>CON 3</b>
Motor size	<b>BE 80 ... BE 132M / ME4 / BN 63 ... BN 132M / M05 ... M4L</b>
Tamanho do motor	
Tipo de conector	Harting Han Modular
Caixa	Han EMC 10B com 2 alavancas
Tipo de módulo	Módulo C + Módulo E + Módulo E
Número de pinos - corrente nominal	3 x 36A / 6 + 6 x 16A
Tensão	500 Vac
Conexão do contato	Contatos a crimpar

(F51)

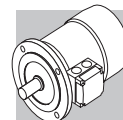


(F52)

**Motores sem dimensões do freio**

		AD (mm)	AF (mm)	AH (mm)	LL (mm)	V <sup>(*)</sup> (mm)
<b>BN 63</b>	<b>M05</b>	136	110	45	165	4.5
<b>BN 71</b>	<b>M1</b>	149	110	45	165	15.5
<b>BE 80 - BN 80</b>	<b>ME2 - M2</b>	160	110	45	165	16.5
<b>BE 90 - BN 90</b>	—	162	110	45	165	31.5
<b>BE 100 - BN 100</b>	<b>ME3 - M3</b>	171	110	45	165	37.5
<b>BE 112 - BN 112</b>	—	186	110	45	165	39
<b>BE 132 - BN 132</b>	<b>ME4 - M4</b>	210	140	45	188	45.5
<b>BN 160MR</b>	—	210	140	45	188	161

(\*) Dimensão válida somente para motores BE e BN.



(F54)

Motores com dimensões de freio FD						
		AD (mm)	AF (mm)	AH (mm)	LL (mm)	V <sup>(*)</sup> (mm)
		136	110	45	165	4.5
		149	110	45	165	1.5
		160	110	45	165	18.5
	—	162	110	45	165	39.5
		171	110	45	165	63.5
	—	186	110	45	165	75
		210	140	45	188	122
	—	210	140	45	188	161

(\*) Dimensão válida somente para motores BN.

### M11.7 Controle da operação do freio

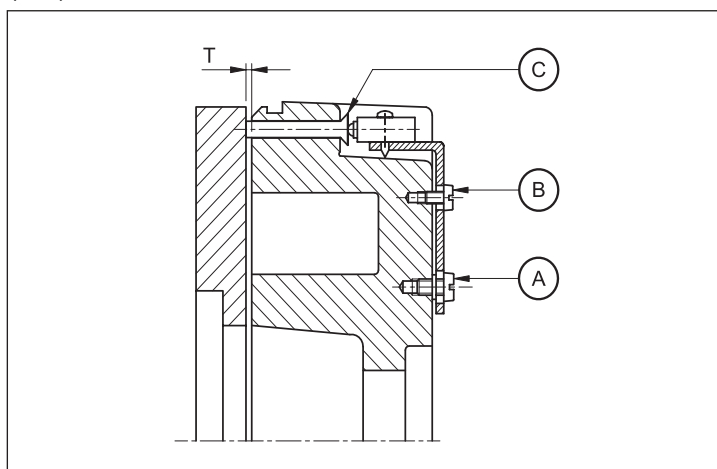
#### MSW

O microinterruptor pode ser ajustado a fim de obter dele um sinal relacionado à atração/libertação da placa de ancoragem, ou ele pode ser configurado de modo a dar feedback quando a distância no entreferro atingir o valor máximo.

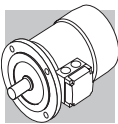
**A opção MSW está disponível para os freios FD03...FD09.**

O microinterruptor é fornecido com três fios condutores de chumbo (NC, NO, COM). A próxima figura mostra os principais componentes do freio equipados com microinterruptor.

(F53)



- A: Parafusos de fixação da placa
- B: Parafusos de ajuste
- C: Pino de controle do atuador



### M11.8 Entrada de cabo adicional para motores com freio

**IC**

A tampa da caixa de terminais dos motores com freio BN63...BN160MR / M05...M4 é fornecida com duas entradas para cabos adicionais M16 x 1,5 (uma entrada de cabo por lado).

A tampa da caixa de terminais dos motores com freio BN160...BN200 / M5 é fornecida com uma entrada para cabos adicional M16 x 1,5 ao lado da entrada de cabos utilizada para o freio.

### M11.9 Aquecedores anticondensação

**H1**


**NH1**

Quando uma aplicação envolver alta umidade ou variação extrema de temperaturas, os motores poderão ser equipados com um aquecedor anticondensação.

Uma fonte de alimentação monofásica é disponibilizada na placa de terminais auxiliar dentro da placa de terminais principal.

Os valores de potência absorvida estão relacionados abaixo:

(F55)

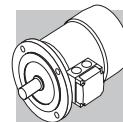
	H1	NH1
	1~ 230V ± 10% P [W]	1~ 115V ± 10% P [W]
<b>BE 80 BN 56 ... BN 80</b>	10	10
<b>BE 90 ... BE 132MB BN 90 ... BN 160MR</b>	25	25
<b>BE 160, BE 180 BN 160, BN 200</b>	50	50

**Aviso! Retire sempre a fonte de alimentação do aquecedor anticondensação antes de operar o motor.**

### M11.10 Tropicalização

**TP**

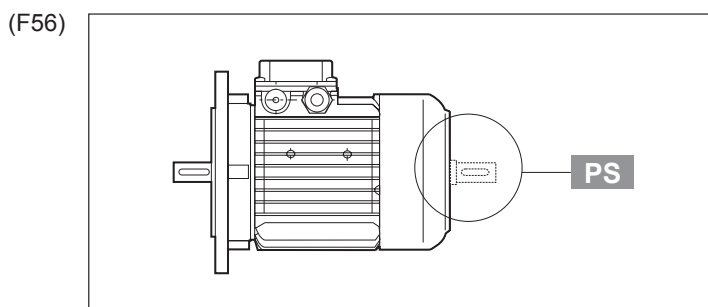
Quando a opção **TP** for especificada, as bobinas do motor recebem proteção adicional para operação em condições de alta umidade e temperatura.



### M11.11 Extensão do segundo eixo

**PS**

Esta opção não é compatível com as variantes RC, TC, U1, U2, EN1, EN2, EN3, EN4, EN5, EN6. Para as dimensões dos eixos, favor consultar as tabelas de dimensões de motor.



### M11.12 Dispositivo contrarrecuo


**AL**

**AR**

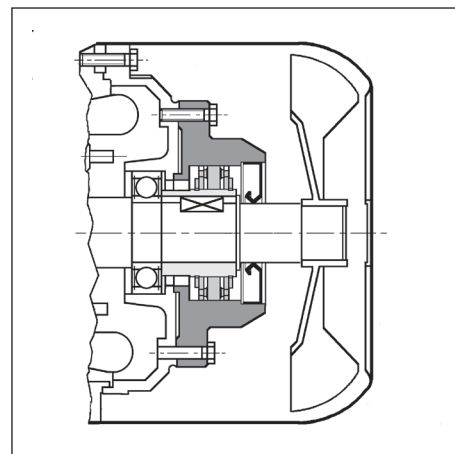
Para aplicações em que o recuo do motor deve ser evitado, motores equipados com um dispositivo contrarrecuo podem ser utilizados (disponíveis somente para as séries, ME e M). Mesmo permitindo a rotação no sentido desejado, este dispositivo opera instantaneamente no caso de falta de energia, impedindo o retorno do eixo. O dispositivo contrarrecuo possui lubrificação permanente com graxa especial para esta aplicação específica. Ao fazer o pedido, os clientes devem indicar o sentido de rotação desejado, AL ou AR.

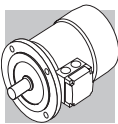
Nunca utilizar o dispositivo contrarrecuo para impedir a rotação reversa causada por falha na conexão elétrica. A Tabela (F57) mostra os torques nominal e máximo de bloqueio dos dispositivos contrarrecuo. Um diagrama do dispositivo pode ser visto na Tabela (F58). As dimensões gerais são as mesmas do respectivo motor com freio. O sentido de rotação livre é descrito na seção "OPÇÕES DO MOTOR" das seções especialmente dedicadas a redutores.

(F57)

	Torque de bloqueio nominal [Nm]	Torque de bloqueio máximo [Nm]	Velocidade de liberação [rpm]
<b>M1</b>	6	10	750
<b>M2</b>	16	27	650
<b>M3</b>	54	92	520
<b>M4</b>	110	205	430

(F58)





### M11.13 Balanceamento do rotor

## RV

Quando baixo ruído for um requisito prioritário, a opção RV garante menor vibração de acordo com a classe de vibração B. A tabela abaixo informa a velocidade de vibração efetiva para balanceamento normal de graus (A) e B.

(F59)

Nível de vibração	Velocidade angular	Limites da velocidade de vibração (mm/s) <b>BE 80 ≤ H ≤ BE 180L</b> <b>BN 56 ≤ H ≤ BN 200</b>
	n [rpm]	
<b>A</b>	600 < n < 3600	1.6
<b>B</b>	600 < n < 3600	0.70

Os valores são obtidos a partir de medições feitas no motor livremente suspenso durante uma operação sem carga; tolerância de ± 10%.

### M11.14 Ventilação



Os motores são refrigerados através da movimentação do ar externamente (IC 411 de acordo com a CEI EN 60034-6) e são equipados com ventilador de plástico radial, o qual opera em ambos os lados. Certifique-se que a tampa do ventilador está instalada a uma distância adequada de uma parede fechada de modo a permitir a circulação de ar e realizar a manutenção do freio, se instalado. A pedido, os motores podem ser fornecidos com alimentação independente para o sistema de ventilação forçada a partir dos tamanhos BN 71, M1, BE 80, ME2.

Motores refrigerados por ventilador axial com fonte de alimentação independente e montado na tampa do ventilador (IC 416 sistema de refrigeração).

Esta versão é usada em caso de motor acionado por inversor de frequência de modo que a operação de torque constante é possível, mesmo em baixa velocidade ou quando as frequências de partida elevadas são necessárias.

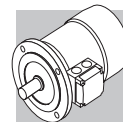
Motores e moto-freios com proteção do eixo traseiro (opção PS) estão excluídos.

(F60)

Comprimento extra para motores servoventilados			
		$\Delta L_1$	$\Delta L_2$
<b>BN 71</b>	<b>M1</b>	93	32
<b>BE 80 - BN 80</b>	<b>ME2 - M2</b>	127	55
<b>BE 90 - BN 90</b>	–	131	48
<b>BE 100 - BN 100</b>	<b>ME3 - M3</b>	119	28
<b>BE 112 - BN 112</b>	–	130	31
<b>BE 132 - BN 132</b>	<b>ME4 - M4</b>	161	51
<b>BE 160 - BE 180</b>	<b>ME5</b>	184	–

$\Delta L_1$  = comprimento extra ao valor de LB do respectivo motor padrão.

$\Delta L_2$  = comprimento extra ao valor de LB do respectivo freio motor. Somente para motores BN.



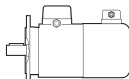
Esta variante tem dois modelos diferentes, chamadas de **U1** e **U2**, tendo a mesma dimensão longitudinal. Lado mais longo da tampa do ventilador ( $\Delta L$ ) é especificado para ambos os modelos indicados na tabela abaixo. Dimensões no geral podem ser consideradas a partir da tabela dos tamanhos dos motores.

## U1

Os terminais de ligação do ventilador estão alojados em uma caixa de terminais separada. Nos motores de tamanho BN 71 ... BN 160MR, M1 ... M4L, com o modelo U1, a alavanca de libertação não pode ser posicionado para AA.

A opção não está disponível para motores compatíveis com as Normas CSA e UL (opção CUS).

(61)

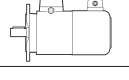
	V a.c. $\pm 10\%$	Hz	P [W]	I [A]
<b>BN 71</b>	1 ~ 230	50 / 60	22	0.12
<b>BE 80</b> <b>BN 80</b>			22	0.12
<b>BE 90</b> <b>BN 90</b>			40	0.30
<b>BE 100</b> <b>BN 100</b>			50	0.25
<b>BE 112</b> <b>BN 112</b>			50	0.26 / 0.15
<b>BE 132</b> <b>BN 132 ... BN 160MR</b>	3 ~ 230 $\Delta$ / 400Y	50	110	0.38 / 0.22
<b>BE 160</b> <b>BN 160M ... BN 180M</b>			180	1.25 / 0.72
<b>BE 180</b> <b>BN 180L ... BN 200L</b>			250	1.51 / 0.87

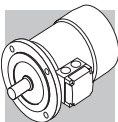
## U2

Os terminais dos ventiladores estão conectados na caixa de terminais do motor.

A opção U2 não se aplica a motores BE, ME e motores com opção CUS (em conformidade com as normas CSA e UL).

(62)

	V a.c. $\pm 10\%$	Hz	P [W]	I [A]
<b>BN 71</b>	1 ~ 230	50 / 60	22	0.12
<b>BN 80</b>			22	0.12
<b>BN 90</b>			40	0.30
<b>BN 100</b>			40	0.26 / 0.09
<b>BN 112</b>	3 ~ 230 $\Delta$ / 400Y	50	50	0.26 / 0.15
<b>BN 132 ... BN 160MR</b>			110	0.38 / 0.22



### M11.15 Protetor de chuva



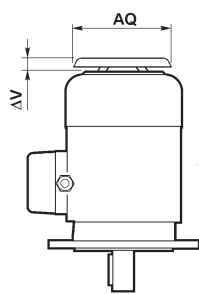
**RC**

O protetor de chuva protege o motor contra gotas e evita o ingresso de corpos sólidos. É recomendado quando o motor for instalado na posição vertical com o eixo para baixo.

Dimensões relevantes são indicadas na tabela abaixo.

A tampa de gotejamento não é compatível com as variantes PS, EN1, EN2, EN3, EN4, EN5, EN6.

(F63)

		<b>AQ</b> [mm / inch]	<b>ΔV</b> [mm / inch]	
<b>BN 63</b>	<b>M05</b>	118 / 4.646	24 / 0.945	
<b>BN 71</b>	<b>M1</b>	134 / 5.276	27 / 1.063	
<b>BE 80</b> <b>BN 80</b>	<b>ME2</b> <b>M2</b>	152 / 5.984	25 / 0.984	
<b>BE 90</b> <b>BN 90</b>	—	168 / 6.614	30 / 1.181	
<b>BE 100</b> <b>BN 100</b>	<b>ME3</b> <b>M3</b>	190 / 7.480	28 / 1.102	
<b>BE 112</b> <b>BN 112</b>	—	211 / 8.307	32 / 1.260	
<b>BE 132</b> <b>BN 132...BN 160MR</b>	<b>ME4</b> <b>M4</b>	254 / 10.000	32 / 1.260	
<b>BE 160</b> <b>BN 160M...BN 180M</b>	<b>ME5</b> <b>M5</b>	302 / 11.890	36 / 1.417	
<b>BE 180</b> <b>BN 180L...BN 200L</b>	—	340 / 13.386	36 / 1.417	

### M11.16 Protetor para aplicações têxteis

**TC**

A opção TC é uma variante de cobertura para ambientes da indústria têxtil, onde fiapos podem obstruir a grade do ventilador e impedir o fluxo regular do ar de resfriamento.

Esta opção não é compatível com as variantes EN1, EN2, EN3, EN4, EN5, EN6, PS, U1, U2.

As dimensões gerais são as mesmas da tampa de gotejamento do tipo RC.

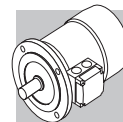
### M11.17 Unidades de realimentação

Os motores podem ser combinados com seis diferentes tipos de encoders para alcançar os circuitos de realimentação.

Configurações com eixo com extensão dupla (PS) e protetor de chuva (RC, TC) não são compatíveis com a instalação do encoder.

**EN1**

Encoder incremental,  $V_{IN} = 5\text{ V}$ , com saída line-driver RS 422.



## EN2

Encoder incremental,  $V_{IN} = 10-30$  V, com saída line-driver RS 422.

## EN3

Encoder incremental,  $V_{IN} = 12-30$  V, com saída push-pull 12-30 V

## EN4

Encoder sin/cos,  $V_{IN} = 4,5-5,5$  V, com saída Sinus  $0,5V_{PP}$ .

## EN5

Encoder absoluto singleturn, HIPERFACE® interface,  $V_{IN} = 7-12$  V.

## EN6

Encoder absoluto multiturn, HIPERFACE® interface,  $V_{IN} = 7-12$  V.

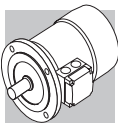
(F64)

	EN1	EN2	EN3	EN4	EN5	EN6
Interface	TTL/RS 422	TTL/RS 422	HTL/push-pull	Sinus 0.5 VPP	HIPERFACE®	HIPERFACE®
Tensão da fonte de alimentação [V]	4...6	10...30	12...30	4.4...5.5	7...12	7...12
Tensão de saída [V]	5	5	12...30	—	—	—
Corrente de operação sem carga [mA]	120	100	100	40	80	80
Número de pulsos por revolução	1024					
Passos por revolução	—	—	—	—	15 bit	15 bit
Revoluções	—	—	—	—	—	12 bit
Número de sinais	6 (A, B, Z + sinais invertidos)			6 (cos-, cos+, sin-, sin+, Z, $\bar{Z}$ )	—	—
Frequência de saída máxima [kHz]	600			200		
Velocidade máxima [rpm]	6000 (9000 rpm por 10 s)					
Intervalo de temperaturas [°C]	-30 ... +100					
Classe de proteção	IP 65					

(F65)

EN1, EN2, EN3, EN4, EN5, EN6			
		<b>A</b> [mm / inch]	<b>B</b> [mm / inch]
BE 80 ... BE 180L	ME2S ... ME5L	65 / 2.559	59 / 2.323
BN 63 ... BN 200L	M05 ... M5		
BN 63_FD ... BN 200L_FD	M05_FD ... M5_FD		
BN 63_FA ... BN 200L_FA	M05_FA ... M5_FA		





Se o dispositivo codificador (opção EN\_) está especificado em motores BE 80 ... BE 80 ... BE 132 - ME2 ... ME4 - BN 71 ... BN 160MR - M1 ... M4, juntamente com o ventilador independente de arrefecimento (opções U1, U2), o comprimento extra do motor está coincidente com a correspondente execução U1 e U2.

### M11.18 Proteção de superfície

**C\_**

Quando nenhuma classe de proteção específica for solicitada, as superfícies (ferrosas) pintadas dos motores serão protegidas de acordo com no mínimo a classe de corrosividade C2 (UNI EN ISO 12944-2). Para maior resistência à corrosão atmosférica, os motores podem ser entregues com proteção de superfície C3 ou C4.

(F66)

PROTEÇÃO DE SUPERFÍCIE	Ambientes típicos	Temperatura máxima de superfície	Classe corrosividade conforme com UNI EN ISO 12944-2
<b>C3</b>	Ambientes urbanos e industriais com até 100% de umidade relativa (poluição do ar média)	120°C	C3
<b>C4</b>	Áreas industriais, áreas costeiras, fábrica de produtos químicos, com até 100% de umidade relativa do ar (poluição do ar elevado)	120°C	C4

Motores com proteção opcional na classe C3 ou C4 estão disponíveis em diversas cores. Se nenhuma cor específica for solicitada (ver a opção "PINTURA"), os motores serão acabados na cor RAL 7042. Os motores também podem ser fornecidos com proteção de superfície para corrosividade de classe C5 de acordo com a norma UNI EN ISO 12944-2. Entre em contato com a nossa Assistência Técnica para mais detalhes.

### M11.19 Pintura

**RAL**

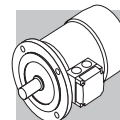
Redutores com proteção opcional na classe C3 ou C4 estão disponíveis nas cores descritas na tabela abaixo.

(F67)

PINTURA	Cor	número RAL
<b>RAL7042*</b>	Traffic Grey A	7042
<b>RAL5010</b>	Gentian Blue	5010
<b>RAL9005</b>	Jet Black	9005
<b>RAL9006</b>	White Aluminium	9006
<b>RAL9010</b>	Pure White	9010

\* Se nenhuma cor específica for solicitada os redutores serão acabados na cor RAL 7042.

NOTA – Opções de "PINTURA" também podem ser especificadas em conjunto com as opções de "PROTEÇÃO DE SUPERFÍCIE".



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## M11.20 Certificados

### ACM

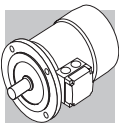
#### **Certificado de Conformidade de Motores**



O documento certifica a conformidade do produto com a ordem de compra e a construção em conformidade com os procedimentos aplicáveis do Sistema de Qualidade da Bonfiglioli.

### CC



#### **Certificado de Inspeção**

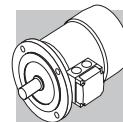
O documento implica a verificação da conformidade, a inspeção visual das condições externas e testes instrumentais das características elétricas na condição sem carga. As unidades inspecionadas são amostradas dentro do lote de transporte e marcadas individualmente.


**M12 ESQUEMAS DE CLASSIFICAÇÃO DE MOTORES BE-ME**



4 P		1800 rpm - S1											60 Hz - IE2		
P <sub>n</sub> kW		n rpm	M <sub>n</sub> Nm	I <sub>n</sub> 460V A	η%			cos φ	I <sub>s</sub> I <sub>n</sub>	M <sub>s</sub> M <sub>n</sub>	M <sub>a</sub> M <sub>n</sub>	KVA Code	J <sub>m</sub> x 10 <sup>-4</sup> Kgm <sup>2</sup>	IM B5  kg	
					100%	75%	50%								
0.75	<b>BE 80B</b>	4	1745	4.1	1.46	82.5	81.1	77.6	0.78	7.6	3.5	3.2	K	28	12.2
1.1	<b>BE 90S</b>	4	1740	6	2.25	84	82.7	79	0.73	7.7	3.5	3.2	L	28	13.6
1.5	<b>BE 90LA</b>	4	1740	8.2	3.1	84.5	83.9	80.7	0.73	7.1	3.6	3.4	K	34	15.1
2.2	<b>BE 100LA</b>	4	1745	12	4.2	87.5	85.5	83.2	0.76	7	3.3	2.9	J	54	22
3	<b>BE 100LB</b>	4	1735	16.5	5.9	87.5	87.7	86.3	0.76	7	3.2	2.9	K	61	24
3.7	<b>BE 112M</b>	4	1750	20	6.6	87.5	87.5	86.1	0.8	7.8	3.3	3.2	K	105	32
5.5	<b>BE 132S</b>	4	1760	30	9.3	89.5	89.5	87.7	0.83	8.7	3.5	3.5	K	270	53
7.5	<b>BE 132MA</b>	4	1760	43	12.7	89.5	89.5	87.9	0.83	8	3.4	3.3	K	319	59
9.2	<b>BE 132MB</b>	4	1760	50	15.6	90	90	88.6	0.82	8.3	3.5	3.6	K	360	70
11	<b>BE 160M</b>	4	1765	60	18.7	91	91	90	0.81	7.7	2.9	2.8	J	650	99
15	<b>BE 160L</b>	4	1770	81	25.5	91	90.5	89.5	0.81	7.1	3.1	2.7	J	790	115
18.5	<b>BE 180M</b>	4	1765	100	30.3	92.4	91.9	90.5	0.83	7.3	2.7	2.5	H	1250	135
22	<b>BE 180L</b>	4	1770	119	36	92.4	92.5	92.2	0.83	8.1	3.3	3.2	J	1650	157

**BE-ME**



4P		1800 rpm - S1											60 Hz - IE2		
P <sub>n</sub> kW		n rpm	M <sub>n</sub> Nm	I <sub>n</sub> 460V A	η%			cos φ	I <sub>s</sub> I <sub>n</sub>	M <sub>s</sub> M <sub>n</sub>	M <sub>a</sub> M <sub>n</sub>	KVA Code	J <sub>m</sub> x 10 <sup>-4</sup> Kgm <sup>2</sup>	IM B5  kg	
					100%	75%	50%								
0.75	<b>ME 2SB</b>	4	1745	4.1	1.46	82.5	81.1	77.6	0.78	7.6	3.5	3.2	K	28	10.9
1.1	<b>ME 3SA</b>	4	1740	6	2.25	84	82.5	80.5	0.73	6	2.9	2.7	J	34	15.5
1.5	<b>ME 3SB</b>	4	1740	8.2	3.3	84.5	84	83	0.71	6.3	3.1	2.9	K	40	17
2.2	<b>ME 3LA</b>	4	1745	12	4.2	87.5	85.5	83.2	0.76	7	3.3	2.9	J	54	21
3	<b>ME 3LB</b>	4	1735	16.5	5.9	87.5	87.7	86.3	0.76	7	3.2	2.9	K	61	23
3.7	<b>ME 4SA</b>	4	1740	20	6.7	87.5	85.6	82.9	0.79	7	3.3	2.9	J	213	42
5.5	<b>ME 4SB</b>	4	1760	30	9.3	89.5	89.5	87.7	0.83	8.7	3.5	3.5	K	270	51
7.5	<b>ME 4LA</b>	4	1760	41	12.7	89.5	89.5	87.9	0.83	8	3.4	3.3	K	319	57
9.2	<b>ME 4LB</b>	4	1760	50	15.6	90	90	88.6	0.82	8.3	3.5	3.6	K	360	65
11	<b>ME 5SA</b>	4	1765	60	18.7	91	91	90	0.81	7.7	2.9	2.8	J	650	85
15	<b>ME 5LA</b>	4	1770	81	25.5	91	90.5	89.5	0.81	7.1	3.1	2.7	J	790	101

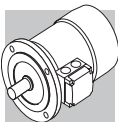


<b>2 P</b>	<b>3000 rpm - S1</b>	<b>50 Hz - IE2</b>
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

P <sub>n</sub> kW		n rpm	M <sub>n</sub> Nm	I <sub>n</sub> 400V A	η%			cos φ	I <sub>s</sub> I <sub>n</sub>	M <sub>s</sub> M <sub>n</sub>	M <sub>a</sub> M <sub>n</sub>	J <sub>m</sub> x 10 <sup>-4</sup> kgm <sup>2</sup>	IM B5 	
					100%	75%	50%							
0.75	<b>BE 80A</b>	2	2860	2.5	1.65	80.0	79.6	76.4	0.83	6.8	3.8	3.5	9.0	9.5
1.1	<b>BE 80B</b>	2	2845	3.7	2.35	81.5	82.2	79.9	0.83	6.9	3.8	3.1	11.4	11.3
1.5	<b>BE 90SA</b>	2	2865	5.0	3.2	81.3	80.7	78.1	0.82	6.8	3.6	2.8	12.5	12.3
2.2	<b>BE 90L</b>	2	2870	7.3	4.7	83.2	83.1	80.8	0.82	6.9	3.1	2.9	16.7	14
3	<b>BE 100L</b>	2	2880	9.9	6.2	84.6	84.6	83.7	0.83	7.3	3.5	3.1	39	23
4	<b>BE 112M</b>	2	2920	13.1	8.2	85.8	85.5	84.3	0.82	7.9	3.5	3.1	57	28
5.5	<b>BE 132SA</b>	2	2925	18.0	10.6	87.0	85.0	81.7	0.86	8.5	3.6	3.3	145	42
7.5	<b>BE 132SB</b>	2	2935	24	14.3	88.1	87.4	84.7	0.86	8.8	3.9	3.6	178	53
9.2	<b>BE 132MB</b>	2	2920	30	16.4	88.8	86.5	84.2	0.91	8.4	3.7	3.3	210	65
11	<b>BE 160MA</b>	2	2940	36	20.0	89.4	89.5	88.0	0.89	8.1	3.0	2.9	340	84
15	<b>BE 160MB</b>	2	2950	49	27.2	90.5	90.5	89.5	0.88	8.5	3.0	2.8	420	97
18.5	<b>BE 160L</b>	2	2945	60	32	90.9	90.5	89.8	0.91	7.7	2.9	2.7	490	109

<b>4 P</b>	<b>1500 rpm - S1</b>	<b>50 Hz - IE2</b>
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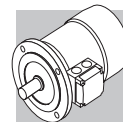
P <sub>n</sub> kW		n rpm	M <sub>n</sub> Nm	I <sub>n</sub> 400V A	η%			cos φ	I <sub>s</sub> I <sub>n</sub>	M <sub>s</sub> M <sub>n</sub>	M <sub>a</sub> M <sub>n</sub>	J <sub>m</sub> x 10 <sup>-4</sup> kgm <sup>2</sup>	IM B5 	
					100%	75%	50%							
0.75	<b>BE 80B</b>	4	1430	5.0	1.65	81.0	80.5	78.0	0.81	6.1	3.2	3.0	28	12.2
1.1	<b>BE 90S</b>	4	1430	7.4	2.53	82.5	82.0	79.5	0.76	6.3	2.9	2.8	28	13.6
1.5	<b>BE 90LA</b>	4	1430	10.0	3.5	83.5	83.0	80.0	0.74	5.9	3.1	3.0	34	15.1
2.2	<b>BE 100LA</b>	4	1430	14.7	4.9	85.4	85.0	84.0	0.76	5.8	3.0	2.8	54	22
3	<b>BE 100LB</b>	4	1420	20	6.6	85.5	86.0	85.5	0.77	5.9	2.8	2.6	61	24
4	<b>BE 112M</b>	4	1440	27	8.3	87.0	87.0	86.0	0.80	6.5	2.8	2.8	105	32
5.5	<b>BE 132S</b>	4	1460	36	11.1	88.5	88.5	87.5	0.81	7.3	2.9	2.9	270	53
7.5	<b>BE 132MA</b>	4	1460	49	14.8	89.0	89.0	88.5	0.82	6.9	2.9	2.8	319	59
9.2	<b>BE 132MB</b>	4	1460	60	18.1	89.5	89.5	88.5	0.82	6.9	2.9	3.0	360	70
11	<b>BE 160M</b>	4	1465	72	21.5	91.0	91.3	90.5	0.81	6.5	2.8	2.6	650	99
15	<b>BE 160L</b>	4	1465	98	28.7	90.8	91.0	90.5	0.83	6.5	2.6	2.3	790	115
18.5	<b>BE 180M</b>	4	1465	121	35	91.6	92.0	91.3	0.83	6.5	2.6	2.5	1250	135
22	<b>BE 180L</b>	4	1465	143	41	91.6	91.8	91.4	0.84	6.8	2.7	2.6	1650	157





<b>6 P</b>	<b>1000 rpm - S1</b>	<b>50 Hz - IE2</b>
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P <sub>n</sub> kW		n rpm	M <sub>n</sub> Nm	I <sub>n</sub> 400V A	η%			cos φ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	J <sub>m</sub> x 10 <sup>-4</sup> kgm <sup>2</sup>	IM B5 	
					100%	75%	50%							
0.75	<b>BE 90S</b>	<b>6</b>	935	7.7	2.06	75.9	75.9	73.0	0.69	5.1	3.1	2.9	33	15
1.1	<b>BE 100M</b>	<b>6</b> (*)	945	11.1	2.75	78.1	76.2	73.0	0.74	4.9	2.2	1.9	82	22
1.5	<b>BE 100LA</b>	<b>6</b>	945	15.2	3.9	79.8	77.5	74.0	0.72	5.6	2.5	2.3	95	24
2.2	<b>BE 112M</b>	<b>6</b>	950	22	5.2	81.8	81.8	79.3	0.74	5.2	2.6	2.3	168	32
3	<b>BE 132S</b>	<b>6</b>	955	30	6.6	83.3	83.3	82.4	0.79	6.1	2.1	1.9	295	44
4	<b>BE 132MA</b>	<b>6</b>	965	40	8.7	84.6	85.0	83.1	0.79	6.9	2.2	2.0	383	56
5.5	<b>BE 160MA</b>	<b>6</b> (*)	965	54	11.6	87.0	87.0	86.4	0.79	6.6	2.5	2.3	740	83
7.5	<b>BE 160MB</b>	<b>6</b> (*)	965	74	15.0	88.0	88.0	87.2	0.82	6.6	2.3	2.1	970	103



(\*) Relação potência/tamanho não padronizada

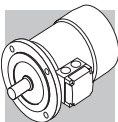


<b>2 P</b>	<b>3000 rpm - S1</b>	<b>50 Hz - IE2</b>
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P <sub>n</sub> kW		n rpm	M <sub>n</sub> Nm	I <sub>n</sub> 400V A	η%			cos φ	I <sub>s</sub> I <sub>n</sub>	M <sub>s</sub> M <sub>n</sub>	M <sub>a</sub> M <sub>n</sub>	J <sub>m</sub> x 10 <sup>-4</sup> kgm <sup>2</sup>	IM B9 	
					100%	75%	50%							
0.75	<b>ME 2SA</b>	<b>2</b>	2860	2.5	1.63	80.0	79.6	76.4	0.83	6.8	3.8	3.5	9.0	8.8
1.1	<b>ME 2SB</b>	<b>2</b>	2845	3.7	2.35	81.5	82.2	79.9	0.83	6.9	3.8	3.1	11.4	10.6
1.5	<b>ME 3SA</b>	<b>2</b>	2845	5.0	3.2	81.3	79.0	76.0	0.84	6.1	2.9	2.7	24	15.5
2.2	<b>ME 3LA</b>	<b>2</b>	2895	7.3	4.8	83.2	83.2	81.5	0.80	6.3	2.7	2.5	31	18.7
3	<b>ME 3LB</b>	<b>2</b>	2880	9.9	6.2	84.6	84.6	83.7	0.83	7.3	3.5	3.1	39	22
4	<b>ME 4SA</b>	<b>2</b>	2900	13.2	7.8	85.8	84.5	82.2	0.87	7.0	2.9	2.8	101	33
5.5	<b>ME 4SB</b>	<b>2</b>	2925	18.0	10.6	87.0	85.0	81.7	0.86	8.5	3.6	3.3	145	40
7.5	<b>ME 4LA</b>	<b>2</b>	2935	24	14.3	88.1	87.4	84.7	0.86	8.8	3.9	3.6	178	51
9.2	<b>ME 4LB</b>	<b>2</b>	2920	30	16.4	88.8	86.5	84.2	0.91	8.4	3.7	3.3	210	60
11	<b>ME 5SA</b>	<b>2</b>	2940	36	20.0	89.4	89.5	88.0	0.89	8.1	3.0	2.9	340	70
15	<b>ME 5SB</b>	<b>2</b>	2950	49	27.2	90.5	90.5	89.5	0.88	8.5	3	2.8	420	83
18.5	<b>ME 5LA</b>	<b>2</b>	2945	60	32	90.9	90.5	89.8	0.91	7.7	2.9	2.7	490	95

<b>4 P</b>	<b>1500 rpm - S1</b>	<b>50 Hz - IE2</b>
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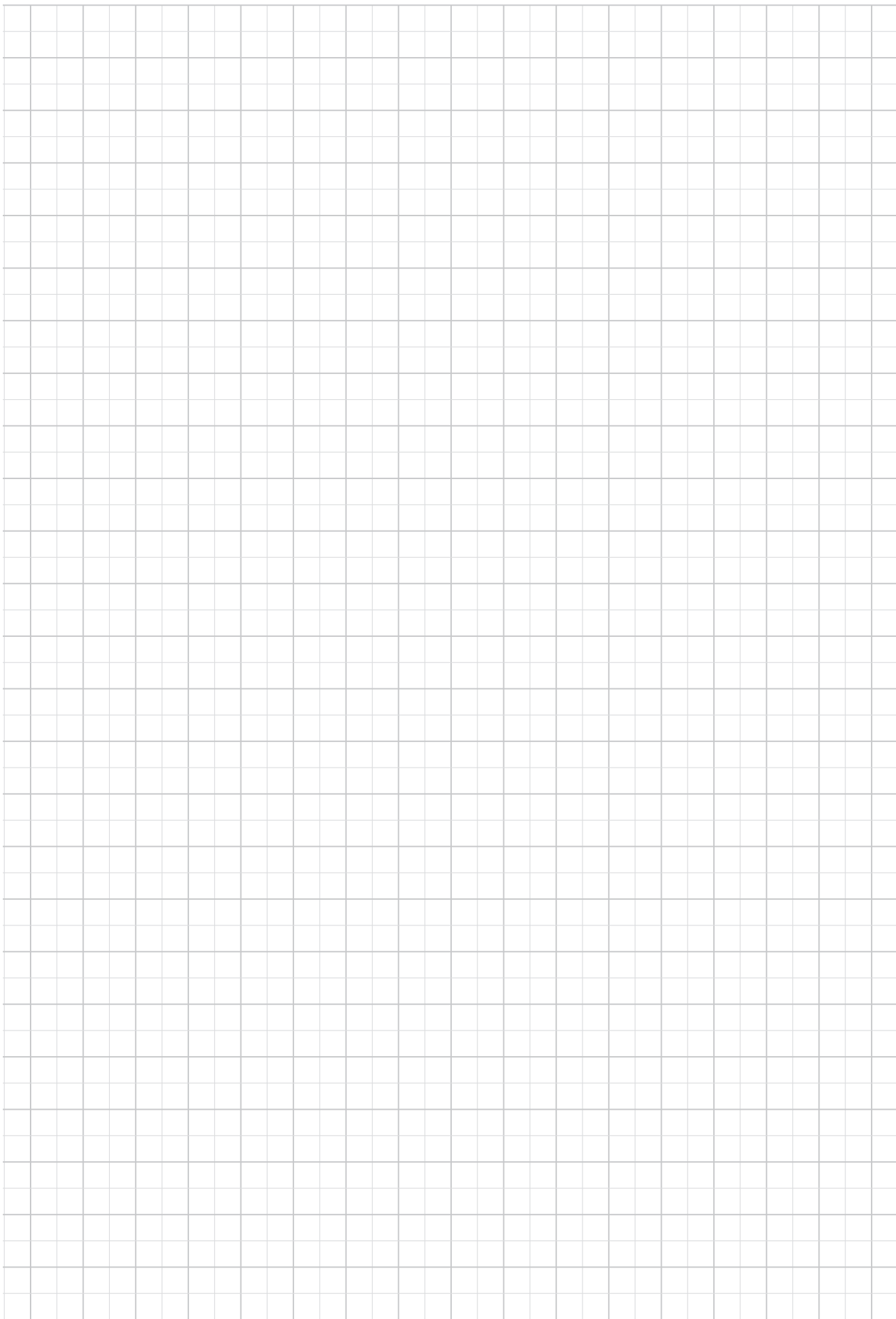
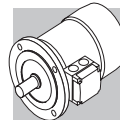
P <sub>n</sub> kW		n rpm	M <sub>n</sub> Nm	I <sub>n</sub> 400V A	η%			cos φ	I <sub>s</sub> I <sub>n</sub>	M <sub>s</sub> M <sub>n</sub>	M <sub>a</sub> M <sub>n</sub>	J <sub>m</sub> x 10 <sup>-4</sup> kgm <sup>2</sup>	IM B9 	
					100%	75%	50%							
0.75	<b>ME 2SB</b>	<b>4</b>	1430	5.0	1.65	81.0	80.5	78.0	0.81	6.1	3.2	3	28	10.9
1.1	<b>ME 3SA</b>	<b>4</b>	1430	7.4	2.60	82.5	82.0	79.0	0.74	5.5	2.5	2.8	34	15.5
1.5	<b>ME 3SB</b>	<b>4</b>	1420	10.1	3.48	84.0	84.0	83.0	0.74	6.2	2.9	2.9	40	17
2.2	<b>ME 3LA</b>	<b>4</b>	1430	14.7	4.89	85.4	85.0	84.0	0.76	5.8	3	2.8	54	21
3	<b>ME 3LB</b>	<b>4</b>	1420	20	6.58	85.5	86.0	85.5	0.77	5.9	2.8	2.6	61	23
4	<b>ME 4SA</b>	<b>4</b>	1440	27	8.25	87.5	86.8	84.0	0.80	7.1	3.0	3.1	213	42
5.5	<b>ME 4SB</b>	<b>4</b>	1460	36	11.07	88.5	88.5	87.5	0.81	7.3	2.9	2.9	270	51
7.5	<b>ME 4LA</b>	<b>4</b>	1460	49	14.83	89.0	89.0	88.5	0.82	6.9	2.9	2.8	319	57
9.2	<b>ME 4LB</b>	<b>4</b>	1460	60	18.09	89.5	89.5	88.5	0.82	6.9	2.9	3	360	65
11	<b>ME 5SA</b>	<b>4</b>	1465	72	21.54	91.0	91.3	90.5	0.81	6.5	2.8	2.6	650	85
15	<b>ME 5LA</b>	<b>4</b>	1465	98	28.73	90.8	91.0	90.5	0.83	6.5	2.6	2.3	790	101



<b>6 P</b>	<b>1000 rpm - S1</b>	<b>50 Hz - IE2</b>
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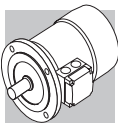
P <sub>n</sub> kW		n rpm	M <sub>n</sub> Nm	I <sub>n</sub> 400V A	η%			cos φ	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	J <sub>m</sub> x 10 <sup>-4</sup> kgm <sup>2</sup>	IM B9 	
					100%	75%	50%							
0.75	<b>ME 3SA</b>	<b>6</b>	940	7.6	1.98	75.9	75.0	70.7	0.72	4.7	2.2	2.0	33	17
1.1	<b>ME 3LA</b>	<b>6 (*)</b>	945	11.1	2.75	78.1	76.2	73.0	0.74	4.9	2.2	1.9	82	21
1.5	<b>ME 3LB</b>	<b>6</b>	945	15.2	3.8	79.8	77.5	74.0	0.72	5.6	2.5	2.3	95	23
2.2	<b>ME 4SA</b>	<b>6</b>	955	22	4.9	81.8	81.8	80.0	0.80	5.7	1.9	1.7	216	34
3	<b>ME 4SB</b>	<b>6</b>	955	30	6.6	83.3	83.3	82.4	0.79	6.1	2.1	1.9	295	43
4	<b>ME 4LA</b>	<b>6</b>	965	40	8.6	84.6	85	83.1	0.79	6.9	2.2	2	383	54
5.5	<b>ME 5SA</b>	<b>6 (*)</b>	965	54	11.6	87.0	87.0	86.4	0.79	6.6	2.5	2.3	740	69
7.5	<b>ME 5SB</b>	<b>6 (*)</b>	965	74	15.0	88.0	88.0	87.2	0.82	6.6	2.3	2.1	970	89

(\*) Relação potência/tamanho não padronizada



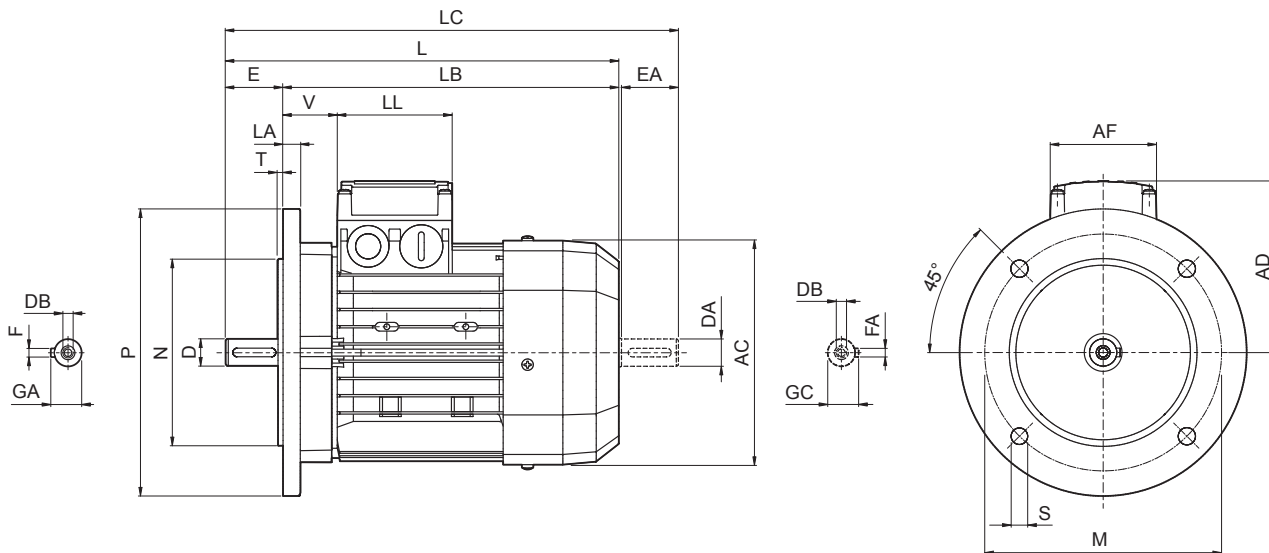
**BE-ME**





## M13 DIMENSÕES DOS MOTORES BE-ME

### BE - IM B5

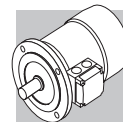


Dimensões em mm

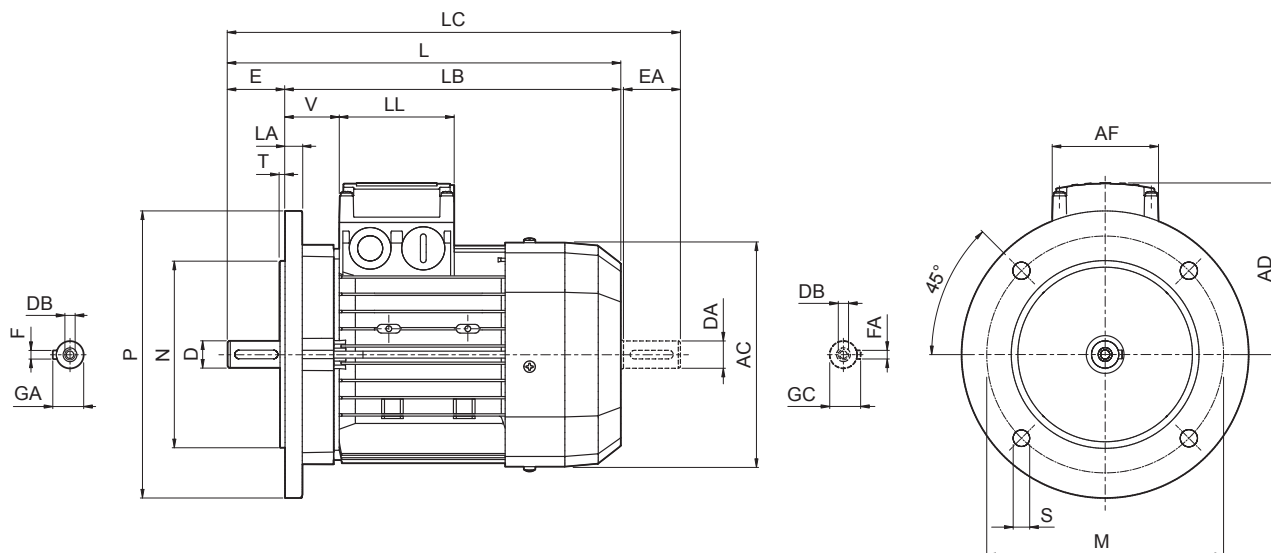
	Eixo					Flange					Motor											
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V			
BE 80	19	40	M6	21.5	6							156	274	234	315	119	74	80	38			
BE 90 S	24	50	M8	27	8	165	130	200	11.5	3.5	11.5	176	326	276	378	133	98	98	44			
BE 90 L																						
BE 100	28	60	M10	31		215	180	250			14	195	367	307	429	142			50			
BE 112																				15	219	385
BE 132 S	38	80	M12	41	10	265	230	300	14	4	20	258	493	413	576	193	118	118	58			
BE 132 MA													528	448	611							
BE 132 MB																						
BE 160 M	42	110	M16	45	12	300	250	350	18.5	5	15	310	596	486	680	245	187	187	51			
BE 160 L	38 <sup>(1)</sup>	80 <sup>(1)</sup>	M12 <sup>(1)</sup>	41 <sup>(1)</sup>	10 <sup>(1)</sup>								640	530	724							
BE 180 M	48	110	M16	51.5	14								18	348	708					598	823	261
BE 180 L	42 <sup>(1)</sup>	110 <sup>(1)</sup>	M16 <sup>(1)</sup>	45 <sup>(1)</sup>	12 <sup>(1)</sup>																	

NOTA:

1) Estes valores referem-se à ponta do eixo traseiro.



## BE - IM B5

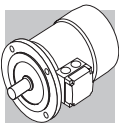


Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

	Eixo					Flange					Motor									
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V	
<b>BE 80</b>	0.748	1.575	M6	0.846	0.236							6.142	10.787	9.213	12.402	4.685	2.913	3.150	1.496	
<b>BE 90 S</b>	0.945	1.969	M8	1.063	0.315	6.496	5.118	7.874	0.453	0.138	0.453	6.929	12.835	10.866	14.882	5.236			1.732	
<b>BE 90 L</b>																				
<b>BE 100</b>	1.102	2.362	M10	1.220	0.315	8.465	7.087	9.843				0.551	7.677	14.449	12.087	16.890	5.591	3.858	3.858	1.969
<b>BE 112</b>												0.591	8.622	15.157	12.795	17.638	6.181			
<b>BE 132 S</b>	1.496	3.150	M12	1.614	0.394	10.433	9.055	11.811	0.551	0.157		0.787	10.157	19.409	16.260	22.677				
<b>BE 132 MA</b>																	7.598	4.646	4.646	2.283
<b>BE 132 MB</b>														20.787	17.638	24.055				
<b>BE 160 M</b>	1.654	4.331	M16	1.772	0.472									23.465	19.134	26.772				2.008
<b>BE 160 L</b>	1.496 <sup>(1)</sup>	3.150 <sup>(1)</sup>	M12 <sup>(1)</sup>	1.615 <sup>(1)</sup>	0.394 <sup>(1)</sup>							0.591	12.205	25.197	20.866	28.504	9.646			
<b>BE 180 M</b>	1.890	4.331	M16	2.028	0.551	11.811	9.843	13.780	0.728	0.197										
<b>BE 180 L</b>														1.654 <sup>(1)</sup>	4.331 <sup>(1)</sup>	M16 <sup>(1)</sup>	1.772 <sup>(1)</sup>	0.472 <sup>(1)</sup>		

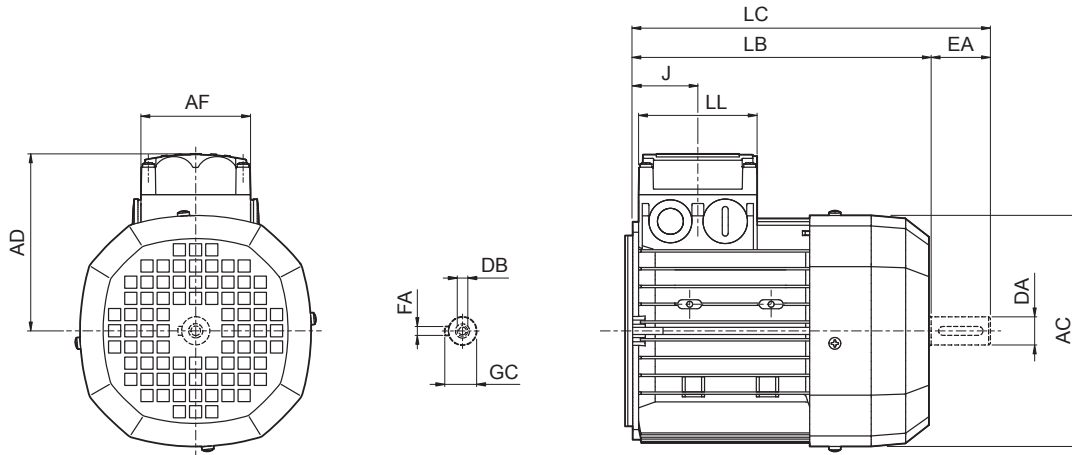
NOTA:

1) Estes valores referem-se à ponta do eixo traseiro.



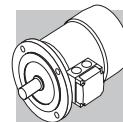
# ME

**BE-ME**

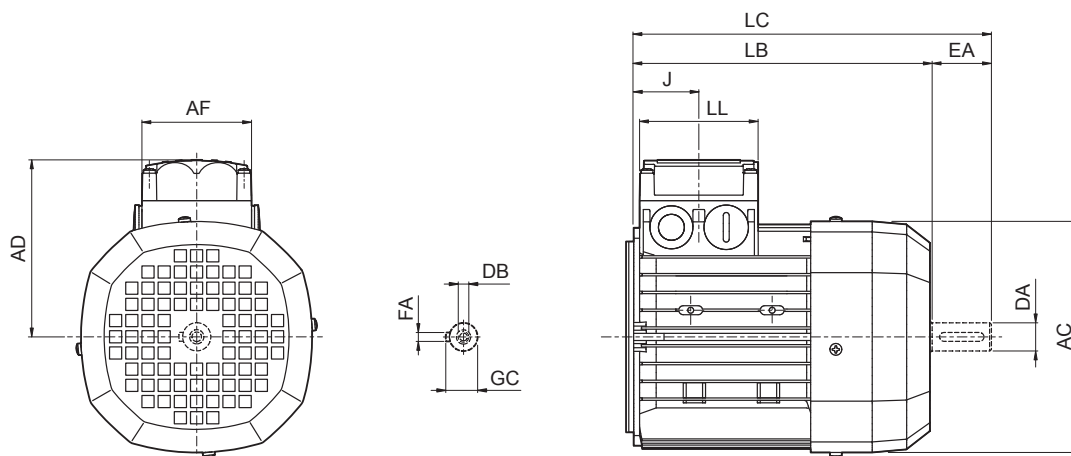


Dimensões em mm

	Ponta do eixo traseiro					Motor						
	DA	EA	DB	FA	GC	AC	LB	LC	AF	LL	J	AD
ME 2S	19	40	M6	6	21.5	156	202	245	74	80	44	119
ME 3S	28	60	M10	8	31	195	230	293	98	98	53.5	142
ME 3L							262	325				
ME 4S	38	80	M12	10	41	258	361	444	118	118	64.5	193
ME 4L							396	479				
ME 4LB												
ME 5S	310	418	502	187	187	77	245					
ME 5L								462	546			



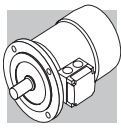
# ME






Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

	Ponta do eixo traseiro					Motor							
	DA	EA	DB	FA	GC	AC	LB	LC	AF	LL	J	AD	
ME 2S	0.748	1.575	<i>M6</i>	0.236	0.846	6.142	7.953	9.646	2.913	3.150	1.732	4.685	
ME 3S	1.102	2.362	<i>M10</i>	0.315	1.220	7.677	9.055	11.535	3.858	3.858	2.106	5.591	
ME 3L							10.315	12.795					
ME 4S	1.496	3.150	<i>M12</i>	0.394	1.614	10.157	14.213	17.480	4.646	4.646	2.539	7.598	
ME 4L							15.591	18.858					
ME 4LB													12.205
ME 5S							18.189	21.496					
ME 5L													

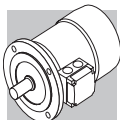
**BE-ME**



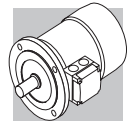
**M14 ESQUEMAS DE CLASSIFICAÇÃO DE MOTORES BN-M**




2P		3600 rpm - S1														60 Hz									
		freio d.c.														freio a.c.									
		P <sub>n</sub> kW		n rpm	M <sub>n</sub> Nm	η %	cosφ	I <sub>n</sub> 460V A	I <sub>L</sub> I <sub>n</sub>	M <sub>L</sub> M <sub>n</sub>	M <sub>L</sub> M <sub>n</sub>	KVA Code	J <sub>m</sub> x 10 <sup>-4</sup> Kgm <sup>2</sup>	IM B5 	Mod	M <sub>b</sub> Nm	Z <sub>o</sub> 1/h	NB	SB	J <sub>m</sub> x 10 <sup>-4</sup> Kgm <sup>2</sup>	IM B5 	Mod	M <sub>b</sub> Nm	Z <sub>o</sub> 1/h	J <sub>m</sub> x 10 <sup>-4</sup> Kgm <sup>2</sup>
FD	FA																								
0.18	BN 63A	2	3360	0.5	58	0.74	0.55	3.7	2.9	2.4	2.0	3.5	FD 02	1.7	3300	2700	3300	2.6	4.9	FA 02	1.7	3300	2.6	5.0	
0.25	BN 63B	2	3370	0.7	61	0.73	0.69	4.2	2.9	2.9	2.3	3.9	FD 02	1.7	3300	2700	3300	3.0	5.2	FA 02	1.7	3300	3.0	5.4	
0.37	BN 71A	2	3420	1.0	71	0.77	0.86	5.8	3.3	3.1	3.5	5.4	FD 03	3.4	3200	2400	3200	4.6	7.5	FA 03	3.4	3200	4.6	7.8	
0.55	BN 71B	2	3450	1.5	76	0.75	1.23	6.2	3.4	3.4	4.1	6.2	FD 03	5.0	2700	2200	2700	5.3	8.3	FA 03	5.0	2700	5.3	8.6	
0.75	BN 80A	2	3440	2.1	76	0.76	1.62	5.9	3.1	2.8	7.8	8.6	FD 04	5.0	1700	1400	1700	9.4	11.8	FA 04	5.0	1700	9.4	12.2	
1.1	BN 80B	2	3430	3.1	77	0.76	2.4	6.2	3.8	2.9	9.0	9.5	FD 04	9.9	1600	1200	1600	10.6	12.2	FA 04	9.9	1600	10.6	13.2	
1.5	BN 90SA	2	3480	4.1	79	0.78	3.04	7.3	3.6	3.2	12.5	12.2	FD 14	15.0	1000	750	1000	14.1	15.4	FA 14	15.0	1000	14.1	16.3	
2.2	BN 90L	2	3490	6.1	81	0.79	4.4	7.3	3.8	3.3	16.7	14.1	FD 05	26	1000	750	1000	18.3	18.6	FA 05	26	1000	18.3	21	
3.7	BN 100LB	2	3490	10.2	84	0.83	6.7	6.7	2.9	3.3	39	23	FD 15	40	500	360	500	43	27	FA 15	40	500	43	30	
5.5	BN 132SA	2	3490	15.3	83	0.86	9.8	6.4	2.7	2.6	101	35	FD 06	50	400	400	400	112	44	FA 06	50	400	112	49	
7.5	BN 132SB	2	3490	20	82	0.88	13	6.2	2.8	2.7	134	42	FD 06	50	350	350	350	145	51	FA 06	50	350	145	56	
11	BN 160MR	2	3510	31	87	0.88	18.3	6.9	2.7	2.9	210	65													
15	BN 160MB	2	3510	41	86	0.9	24.2	6	2.5	2.8	340	84													
18.5	BN 160L	2	3520	51	88	0.91	29.2	6.9	2.8	2.7	421	97													
22	BN 180M	2	3520	61	88	0.91	35.1	6.9	2.8	2.8	491	109													
30	BN 200LA	2	3530	81	89	0.91	46.2	6.9	2.6	3.5	771	140													





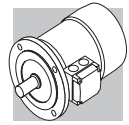
6P		1200 rpm - S1													60 Hz										
P <sub>n</sub> kW		n rpm	M <sub>n</sub> Nm	η %	cosφ	I <sub>n</sub> 460V A	I <sub>a</sub> I <sub>n</sub>	M <sub>a</sub> M <sub>n</sub>	M <sub>s</sub> M <sub>n</sub>	KVA Code	J <sub>m</sub> x 10 <sup>-4</sup> Kgm <sup>2</sup>	IM B5  kg	freio d.c.						freio a.c.						
													Mod	M <sub>b</sub> Nm	Z <sub>o</sub> 1/h	Z <sub>o</sub> 1/h		J <sub>m</sub> x 10 <sup>-4</sup> Kgm <sup>2</sup>	IM B5  kg	Mod	M <sub>b</sub> Nm	Z <sub>o</sub> 1/h	J <sub>m</sub> x 10 <sup>-4</sup> Kgm <sup>2</sup>	IM B5  kg	
																NB	SB								FA
0.09	BN 63A	6	0.8	47	0.5	0.48	2.8	2.9	2.3	K	3.4	4.6	FD 02	3.4	7000	10000	10000	10000	4.0	6.3	FA 02	3.4	10000	4.0	6.1
0.12	BN 63B	6	1.0	50	0.55	0.55	2.4	2.4	2.2	H	3.7	4.9	FD 02	3.4	7000	10000	10000	10000	4.3	6.6	FA 02	3.4	10000	4.3	6.4
0.18	BN 71A	6	1.6	61	0.65	0.57	3.3	2.6	2.0	G	8.4	5.5	FD 03	5.0	6500	10000	10000	10000	9.5	8.2	FA 03	5.0	10000	9.5	7.9
0.25	BN 71B	6	2.1	64	0.65	0.75	3.2	2.6	2.1	G	10.9	6.7	FD 03	5.0	6200	8000	8000	12.0	9.5	FA 03	5.0	8000	12.0	9.1	
0.37	BN 80A	6	3.2	67	0.65	1.07	3.9	2.6	2.5	H	21	10.0	FD 04	9.9	4100	5500	5500	23	13.6	FA 04	9.9	5500	23	13.6	
0.55	BN 80B	6	4.7	76	0.66	1.38	4.9	3.2	2.7	J	25	11.3	FD 04	15.0	3800	5000	5000	27	15.4	FA 04	15.0	5000	27	15.0	
0.75	BN 90S	6	6.2	73	0.63	2.05	4.5	2.9	2.8	K	26	13.2	FD 14	15.0	2700	4000	4000	28	16.8	FA 14	15.0	4000	28	16.8	
1.1	BN 90L	6	9.4	75	0.65	2.83	4.3	2.8	2.4	H	33	15.0	FD 05	26	2000	3500	3500	37	21	FA 05	26	3500	37	22	
1.5	BN 100LA	6	12.5	76	0.66	3.75	4.5	2.4	2.4	H	82	22	FD 15	40	1500	3000	3000	86	28	FA 15	40	3000	86	29	
2.2	BN 112M	6	18.5	81	0.69	4.9	5.5	2.8	2.4	J	169	32	FD 06S	60	1250	1250	1250	177	42	FA 06S	60	1250	177	44	
3.7	BN 132MA	6	31	80	0.79	7.3	6.1	2.5	2.3	J	295	44	FD 06	100	900	900	900	305	58	FA 07	100	900	305	63	
5.5	BN 132MB	6	47	82	0.75	11.2	5.4	2.7	2.3	H	383	56	FD 07	150	800	800	800	406	72	FA 07	150	800	406	74	
7.5	BN 160M	6	61	85	0.82	13.5	5.8	2.3	2.4	G	741	83	FD 08	169	550	550	550	816	112	FA 08	169	550	816	113	
11	BN 160L	6	92	84	0.83	19.8	5.8	2.5	2.7	G	971	103	FD 08	200	400	400	400	1046	133	FA 08	200	400	1046	133	







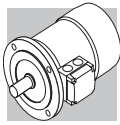
2P		3600 rpm - S1											60 Hz										
													freio d.c.					freio a.c.					
P <sub>n</sub> kW		n rpm	M <sub>n</sub> Nm	η %	cosφ	I <sub>n</sub> 460V A	I <sub>n</sub> I <sub>n</sub>	M <sub>L</sub> M <sub>n</sub>	M <sub>L</sub> M <sub>n</sub>	KVA Code	J <sub>m</sub> x 10 <sup>-4</sup> kgm <sup>2</sup>	IM B5 	FD			FA							
													Mod	M <sub>b</sub> Nm	Z <sub>0</sub> 1/h	NB	SB	J <sub>m</sub> x 10 <sup>-4</sup> kgm <sup>2</sup>	IM B5 	Mod	M <sub>b</sub> Nm	Z <sub>0</sub> 1/h	J <sub>m</sub> x 10 <sup>-4</sup> kgm <sup>2</sup>
0.18	M 05A	2	3380	0.5	0.74	0.53	4.1	3	2.4	H	2.0	3.2	FD 02	1.7	2700	3300	2.6	4.9	FA 02	1.7	3300	2.6	4.7
0.25	M 05B	2	3400	0.7	0.75	0.63	4.9	3.2	2.9	J	2.3	3.6	FD 02	1.7	2700	3300	3.0	5.3	FA 02	1.7	3300	3.0	5.1
0.37	M 05C	2	3420	1.0	0.76	0.89	5.5	3.3	3.2	J	2.6	4.8	FD 02	3.4	2500	3000	3.3	6.5	FA 02	3.4	3000	3.3	6.3
0.55	M 1SD	2	3450	1.5	0.75	1.23	6.2	3.4	3.4	K	4.1	5.8	FD 03	5.0	2200	2700	5.3	8.5	FA 03	5.0	2700	5.3	8.2
0.75	M 1LA	2	3440	2.1	0.75	1.62	6.2	3.8	3.5	K	5.0	6.9	FD 03	5.0	1500	2100	6.1	9.5	FA 03	5.0	2100	6.1	9.5
1.1	M 2SA	2	3430	3.1	0.76	2.4	6.2	3.8	2.9	J	9.0	8.8	FD 04	9.9	1200	1600	10.6	12.7	FA 04	9.9	1600	10.6	12.7
1.5	M 2SB	2	3420	4.1	0.81	2.89	6	3.3	2.9	H	11.4	10.4	FD 04	15.0	1000	1300	13.0	14.5	FA 04	15.0	1300	13.0	14.5
2.2	M 3SA	2	3430	6.2	0.83	4.2	6	2.4	3.2	H	24	15.4	FD 15	26	800	1000	28.0	22	FA 15	26	1000	28.0	23
3.7	M 3LB	2	3490	10.4	0.83	6.7	6.7	2.9	3.2	J	39	22	FD 15	40	360	500	43	28	FA 15	40	500	43	29
5.5	M 4SA	2	3490	15.2	0.86	9.8	6.4	2.7	2.6	H	101	33	FD 06	50	400	400	112	46	FA 06	50	400	112	47
7.5	M 4SB	2	3490	20	0.88	13	6.2	2.8	2.7	H	134	40	FD 06	50	350	350	145	53	FA 06	50	350	145	65
11	M 4LC	2	3510	31	0.88	18.3	6.9	2.7	2.9	H	210	60											
15	M 5SB	2	3510	40	0.9	24.2	6	2.5	2.8	G	340	70											
18.5	M 5SC	2	3520	51	0.91	29.2	6.9	2.8	2.7	H	421	83											
22	M 5LA	2	3520	61	0.91	35.1	6.9	2.8	2.8	H	491	95											







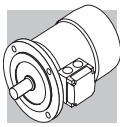
6P		1200 rpm - S1												60 Hz										
														freio a.c.										
														freio d.c.										
P <sub>n</sub> kW		n rpm	M <sub>n</sub> Nm	η %	cosφ	I <sub>n</sub> 460V A	$\frac{I_n}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_s}{M_n}$	KVA Code	J <sub>m</sub> x 10 <sup>-4</sup> kgm <sup>2</sup>	IM B5 	Mod	M <sub>b</sub> Nm	Z <sub>o</sub> 1/h	NB	SB	J <sub>m</sub> x 10 <sup>-4</sup> kgm <sup>2</sup>	IM B5 	Mod	M <sub>b</sub> Nm	Z <sub>o</sub> 1/h	J <sub>m</sub> x 10 <sup>-4</sup> kgm <sup>2</sup>	IM B5 
0.09	M 05A	6	1100	0.8	47	0.46	0.52	2.4	2.9	2.3	3.4	4.3	FD 02	3.4	7000	10000	10000	4.0	6.0	FA 02	3.4	10000	4.0	5.8
0.12	M 05B	6	1100	1.0	49	0.54	0.57	2.3	2.4	2.2	3.7	4.6	FD 02	3.4	7000	10000	10000	4.3	6.3	FA 02	3.4	10000	4.3	6.1
0.18	M 13C	6	1100	1.6	61	0.65	0.57	3.3	2.6	2.0	8.4	5.1	FD 03	5.0	6500	10000	10000	9.5	7.8	FA 03	5.0	10000	9.5	7.5
0.25	M 13D	6	1100	2.1	64	0.65	0.75	3.2	2.6	2.1	10.9	6.3	FD 03	5.0	6200	8000	8000	12.2	9.0	FA 03	5.0	8000	12.2	8.7
0.37	M 13A	6	1100	3.2	66	0.65	1.08	3.3	2.6	2.4	12.9	7.3	FD 53	7.5	4000	7000	7000	13.9	10.0	FA 03	7.5	7000	13.9	9.5
0.55	M 23A	6	1140	4.7	76	0.66	1.38	4.9	3.2	2.7	25	10.4	FD 04	15.0	3800	5000	5000	27	14.5	FA 04	15.0	5000	27	14.5
0.75	M 23B	6	1140	6.2	76	0.61	2.03	4.4	2.8	2.8	28	11.3	FD 04	15.0	2700	5000	5000	30	15.4	FA 04	15.0	5000	30	15.4
1.1	M 33A	6	1140	9.4	74	0.68	2.74	4.4	2.4	2.2	61	16.8	FD 15	26	2300	4500	4500	66	23	FA 15	26	4500	66	24
1.5	M 33A	6	1140	12.5	76	0.66	3.75	4.5	2.4	2.4	82	21	FD 15	40	1500	3000	3000	86	27	FA 15	40	3000	86	28
2.2	M 33C	6	1140	18.7	77	0.68	5.3	5.1	2.6	2.6	95	23	FD 55	54	1500	1500	1500	99	29	FA 15	54	1500	99	30
3.7	M 43A	6	1150	31	80	0.79	7.3	6.1	2.5	2.3	295	43	FD 06	100	900	900	900	305	56	FA 06	100	900	305	57
5.5	M 43B	6	1140	47	82	0.75	11.2	5.4	2.7	2.3	383	54	FD 07	150	800	800	800	406	70	FA 07	150	800	406	72
7.5	M 53A	6	1160	61	85	0.82	13.5	5.8	2.3	2.4	741	69	FD 08	169	550	550	550	816	98	FA 08	169	550	816	98
11	M 53B	6	1160	92	84	0.83	19.8	5.8	2.5	2.7	971	89	FD 08	200	400	400	400	1046	119	FA 08	200	400	1046	118



2P		3000 rpm - S1														50 Hz									
		freio d.c.														freio a.c.									
		P <sub>n</sub> kW	Image	n rpm	M <sub>n</sub> Nm	IE1	η (100%) %	η (75%) %	η (50%) %	cosφ	In 400V A	Is In	Ms Mn	Ma Mn	J <sub>m</sub> x 10 <sup>-4</sup> kgm <sup>2</sup>	IM B5 Kg	Mod	Mb Nm	Z <sub>0</sub> 1/h	J <sub>m</sub> x 10 <sup>-4</sup> kgm <sup>2</sup>	IM B5 Kg	Mod	Mb Nm	Z <sub>0</sub> 1/h	J <sub>m</sub> x 10 <sup>-4</sup> kgm <sup>2</sup>
FD	FA																								
0.18	BN 63A	2	2730	0.63	○	59.9	56.9	51.9	0.77	0.56	3.0	2.1	2.0	2.0	3.5	FD 02	1.75	3900	4800	5.2	FA 02	1.75	4800	2.6	5.0
0.25	BN 63B	2	2740	0.87	○	66.0	64.8	64.8	0.76	0.72	3.3	2.3	2.3	2.3	3.9	FD 02	1.75	3900	4800	5.6	FA 02	1.75	4800	3.0	5.4
0.37	BN 63C	2	2800	1.26	○	69.1	66.8	66.8	0.78	0.99	3.9	2.6	2.6	3.3	5.1	FD 02	3.5	3600	4500	6.8	FA 02	3.5	4500	3.9	6.6
0.37	BN 71A	2	2820	1.25	○	73.8	73.0	70.6	0.76	0.95	4.8	2.8	2.6	3.5	5.4	FD 03	3.5	3000	4100	8.1	FA 03	3.5	4200	4.6	7.8
0.55	BN 71B	2	2820	1.86	○	76.0	75.8	74.8	0.76	1.37	5.0	2.9	2.8	4.1	6.2	FD 03	5	2900	4200	8.9	FA 03	5	4200	5.3	8.6
0.75	BN 71C	2	2810	2.6	○	76.6	76.2	76.2	0.76	1.86	5.1	3.1	2.8	5.0	7.3	FD 03	5	1900	3300	10.0	FA 03	5	3600	6.1	9.7
0.75	BN 80A	2	2810	2.6	●	76.2	75.5	68.3	0.81	1.75	4.8	2.6	2.2	7.8	8.6	FD 04	5	1700	3200	12.5	FA 04	5	3200	9.4	12.4
1.1	BN 80B	2	2800	3.8	●	76.4	76.2	75.0	0.81	2.57	4.8	2.8	2.4	9.0	9.5	FD 04	10	1500	3000	13.4	FA 04	10	3000	10.6	13.3
1.5	BN 80C	2	2800	5.1	●	79.1	79.5	77.2	0.81	3.4	4.9	2.7	2.4	11.4	11.3	FD 04	15	1300	2600	15.2	FA 04	15	2600	13.0	15.1
1.5	BN 90SA	2	2870	5.0	●	82.0	81.5	78.1	0.80	3.4	5.9	2.7	2.6	12.5	12.3	FD 14	15	900	2200	16.5	FA 14	15	2200	14.1	16.4
1.85	BN 90SB	2	2880	6.1	●	82.5	82.0	75.4	0.80	4.0	6.2	2.9	2.6	16.7	14	FD 14	15	900	2200	18.2	FA 14	15	2200	18.3	18.1
2.2	BN 90L	2	2880	7.3	●	82.7	82.1	80.8	0.80	4.8	6.3	2.9	2.7	16.7	14	FD 05	26	900	2200	20	FA 05	26	2200	21	20.7
3	BN 100L	2	2860	10.0	●	81.5	81.3	77.4	0.79	6.7	5.6	2.6	2.2	31	20	FD 15	26	700	1600	26	FA 15	26	1600	35	27
4	BN 100LB	2	2870	13.3	●	83.1	83.0	77.8	0.80	8.7	5.8	2.7	2.5	39	23	FD 15	40	450	900	29	FA 15	40	1000	43	30
4	BN 112M	2	2900	13.2	●	85.5	84.5	83.0	0.82	8.2	6.9	3.0	2.9	57	28	FD 06S	40	—	950	39	FA 06S	40	950	66	40
5.5	BN 132SA	2	2890	18.2	●	84.7	84.5	81.2	0.84	11.2	5.9	2.6	2.2	101	35	FD 06	50	—	600	48	FA 06	50	600	112	49
7.5	BN 132SB	2	2900	25	●	86.5	86.3	84.4	0.85	14.7	6.4	2.6	2.2	145	42	FD 06	50	—	550	55	FA 06	50	550	154	56
9.2	BN 132M	2	2930	30	●	87.0	86.5	83.6	0.86	17.7	6.7	2.8	2.3	178	53	FD 56	75	—	430	66	FA 06	75	430	189	67
11	BN 160MR	2	2920	36	●	87.6	87.0	86.0	0.88	20.6	6.9	2.9	2.5	210	65										
15	BN 160MB	2	2930	49	●	89.6	89.4	88.0	0.86	28.1	7.1	2.6	2.3	340	84										
18.5	BN 160L	2	2930	60	●	90.4	90.1	89.0	0.86	34	7.6	2.7	2.3	420	97										
22	BN 180M	2	2930	72	●	89.9	89.7	89.5	0.88	40	7.8	2.6	2.4	490	109										
30	BN 200LA	2	2930	98	●	90.7	90.1	87.6	0.89	54	7.8	2.7	2.9	770	140										

○ = n.a. ● = IE1

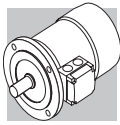








6P		1000 rpm - S1														50 Hz									
		freio d.c.														freio a.c.									
		P <sub>n</sub> kW	Image	n rpm	M <sub>n</sub> Nm	IE1	η (100%) %	η (75%) %	η (50%) %	cosφ	In 400V A	Is In	Ms Mn	Ma Mn	J <sub>m</sub> x 10 <sup>-4</sup> kgm <sup>2</sup>	IM B5 Kg	Mod	Mb Nm	Z <sub>0</sub> 1/h	J <sub>m</sub> x 10 <sup>-4</sup> kgm <sup>2</sup>	IM B5 Kg	Mod	Mb Nm	Z <sub>0</sub> 1/h	J <sub>m</sub> x 10 <sup>-4</sup> kgm <sup>2</sup>
NB	SB																								
0.09	BN 63A	6	0.98	○	41.0	41.0	32.9	0.53	0.60	2.1	2.1	1.8	3.4	4.6	FD 02	3.5	9000	14000	4.0	6.3	FA 02	3.5	14000	4.0	6.1
0.12	BN 63B	6	1.32	○	45.0	44.0	41.8	0.60	0.64	2.1	1.9	1.7	3.7	4.9	FD 02	3.5	9000	14000	4.3	6.6	FA 02	3.5	14000	4.3	6.4
0.18	BN 71A	6	1.91	○	55.0	55.5	51.0	0.69	0.68	2.6	1.9	1.7	8.4	5.5	FD 03	5	8100	13500	9.5	8.2	FA 03	5.0	13500	9.5	7.9
0.25	BN 71B	6	2.70	○	62.0	58.5	51.4	0.71	0.82	2.6	1.9	1.7	10.9	6.7	FD 03	5	7800	13000	12	9.4	FA 03	5.0	13000	12	9.1
0.37	BN 71C	6	3.9	○	66.0	60.0	53.3	0.69	1.17	3.0	2.4	2.0	12.9	7.7	FD 53	7.5	5100	9500	14	10.4	FA 03	7.5	9500	14	10.1
0.37	BN 80A	6	3.9	○	68.0	67.4	63.3	0.68	1.15	3.2	2.2	2.0	21	9.9	FD 04	10	5200	8500	23	13.8	FA 04	10	8500	23	13.7
0.55	BN 80B	6	5.7	○	70.0	69.8	64.3	0.68	1.67	3.9	2.6	2.2	25	11.3	FD 04	15	4800	7200	27	15.2	FA 04	15	7200	27	15.1
0.75	BN 80C	6	7.8	●	70.0	70.0	64.4	0.65	2.38	3.8	2.5	2.2	28	12.2	FD 04	15	3400	6400	30	16.1	FA 04	15	6400	30	16.0
0.75	BN 90S	6	7.8	●	70.0	69.0	64.2	0.68	2.27	3.8	2.4	2.2	26	12.6	FD 14	15	3400	6500	28	16.8	FA 14	15	6500	28	16.7
1.1	BN 90L	6	11.4	●	72.9	72.6	69.1	0.69	3.2	3.9	2.3	2.0	33	15	FD 05	26	2700	5000	37	21	FA 05	26	5000	37	22
1.5	BN 100LA	6	15.2	●	75.2	74.2	70.3	0.72	4.0	4.1	2.1	2.0	82	22	FD 15	40	1900	4100	86	28	FA 15	40	4100	86	29
1.85	BN 100LB	6	19.0	●	76.6	72.8	62.6	0.73	4.8	4.6	2.1	2.0	95	24	FD 15	40	1700	3600	99	30	FA 15	40	3600	99	31
2.2	BN 112M	6	22	●	78.5	79.0	76.5	0.73	5.5	4.8	2.2	2.0	168	32	FD 06S	60	—	2100	177	42	FA 06S	60	2100	177	44
3	BN 132S	6	30	●	79.7	77.0	75.1	0.76	7.1	5.1	1.9	1.8	216	36	FD 56	75	—	1400	226	49	FA 06	75	1400	226	50
4	BN 132MA	6	40	●	81.4	81.5	79.5	0.77	9.2	5.5	2.0	1.8	295	45	FD 06	100	—	1200	305	58	FA 07	100	1200	318	63
5.5	BN 132MB	6	56	●	83.1	80.9	79.1	0.78	12.2	6.1	2.1	1.9	383	56	FD 07	150	—	1050	406	72	FA 07	150	1050	406	74
7.5	BN 160M	6	75	●	85.0	85.0	84.8	0.81	15.7	5.9	2.2	2.0	740	83	FD 08	170	—	900	815	112	FA 08	170	900	815	113
11	BN 160L	6	109	●	86.4	86.5	85.9	0.81	22.7	6.6	2.5	2.3	970	103	FD 08	200	—	800	1045	133	FA 08	200	800	1045	133
15	BN 180L	6	148	●	87.7	88.0	87.3	0.82	30	6.2	2.0	2.4	1550	130	FD 09	300	—	600	1750	170	FA 09	300	600	1750	170
18.5	BN 200LA	6	184	●	88.6	88.0	87.3	0.81	37	5.9	2.0	2.3	1700	145	FD 09	400	—	450	1900	185	FA 09	400	450	1900	185

○ = n.a.    ● = IE1



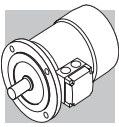


4P		1500 rpm - S1														50 Hz												
		freio d.c.														freio a.c.												
		FD														FA												
P <sub>n</sub>		n	M <sub>n</sub>	IE1	η (100%)	η (75%)	η (50%)	cosφ	In 400V	$\frac{I_s}{I_n}$	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	J <sub>m</sub> x 10 <sup>-4</sup> kgm <sup>2</sup>	IM B5 	Mod	Mb	Z <sub>0</sub> 1/h	NB	SB	J <sub>m</sub> x 10 <sup>-4</sup> kgm <sup>2</sup>	IM B5 	Mod	Mb	Z <sub>0</sub> 1/h	J <sub>m</sub> x 10 <sup>-4</sup> kgm <sup>2</sup>	IM B5 		
0.09	M 0B	4	1350	0.64	○	51.7	47.6	42.9	0.60	0.42	2.6	2.5	2.4	1.5	2.9		1.75	10000			2.6	4.9		1.75	13000	2.6	4.7	
0.12	M 05A	4	1350	0.85	○	59.8	56.2	47.0	0.62	0.47	2.6	1.9	1.8	2.0	3.2		3.5	10000			3.0	5.3	FA 02	3.5	13000	3.0	5.1	
0.18	M 05B	4	1320	1.30	○	54.8	52.9	52.5	0.67	0.71	2.6	2.2	2.0	2.3	3.6		3.5	10000			3.9	6.5	FA 02	3.5	10000	3.9	6.3	
0.25	M 05C	4	1340	1.78	○	65.3	65.0	57.9	0.69	0.80	2.7	2.1	1.9	3.3	4.8		5	7800			8.0	8.2	FA 03	5	9400	8.0	7.9	
0.37	M 1SD	4	1370	2.6	○	66.8	66.7	63.0	0.76	1.05	3.7	2.0	1.9	6.9	5.5		7.5	4300			10.2	9.6	FA 03	7.5	8700	10.2	9.3	
0.55	M 1LA	4	1380	3.8	○	69.0	68.9	68.8	0.74	1.55	4.1	2.3	2.3	9.1	6.9		15	4100			22	13.1	FA 04	15	7800	22	13.0	
0.75	M 2SA	4	1400	5.1	●	75.0	74.5	69.3	0.78	1.85	4.9	2.7	2.5	20	9.2		15	2600			27	14.5	FA 04	15	5300	27	14.4	
1.1	M 2SB	4	1400	7.5	●	76.4	76.2	70.4	0.78	2.66	5.1	2.8	2.5	25	10.6		26	2800			38	22	FA 15	26	4900	38	23	
1.5	M 3SA	4	1410	10.2	●	79.6	80.5	79.3	0.77	3.5	4.6	2.1	2.1	34	15.5		40	2600			44	24	FA 15	40	4700	44	24	
2.2	M 3LA	4	1410	14.9	●	81.1	81.4	79.9	0.75	5.2	4.5	2.2	2.0	40	17		40	2400			58	27	FA 15	40	4400	58	28	
3	M 3LB	4	1410	20	●	82.6	83.8	83.7	0.77	6.8	5.0	2.3	2.2	54	21		55	—			65	29	FA 15	40	1300	65	30	
4	M 3LC	4	1400	27	○	82.7	83.1	80.5	0.78	9.0	4.7	2.3	2.2	61	23		75	—			223	55	FA 06	75	1050	223	56	
5.5	M 4SA	4	1440	36	●	84.7	84.8	82.5	0.81	11.6	5.5	2.3	2.2	213	42		100	—			280	64	FA 07	100	950	280	65	
7.5	M 4LA	4	1440	50	●	86.0	86.3	85.3	0.81	15.5	5.7	2.5	2.4	270	51		150	—			342	73	FA 07	150	900	342	75	
9.2	M 4LB	4	1440	61	●	88.4	88.6	87.5	0.81	18.8	5.9	2.7	2.5	319	57		150	—			382	81	FA 07	150	850	382	83	
11	M 4LC	4	1440	73	●	87.6	87.8	86.0	0.81	22.4	6.0	2.7	2.5	360	65		200	—			725	115	FA 08	200	750	710	114	
15	M 5SB	4	1460	98	●	88.7	88.5	88.4	0.81	30.1	6.0	2.3	2.1	650	85		250	—			865	131	FA 08	250	700	850	130	
18.5	M 5LA	4	1460	121	●	89.3	89.5	89.2	0.81	37	6.2	2.6	2.5	790	101													

○ = n.a. ● = IE1

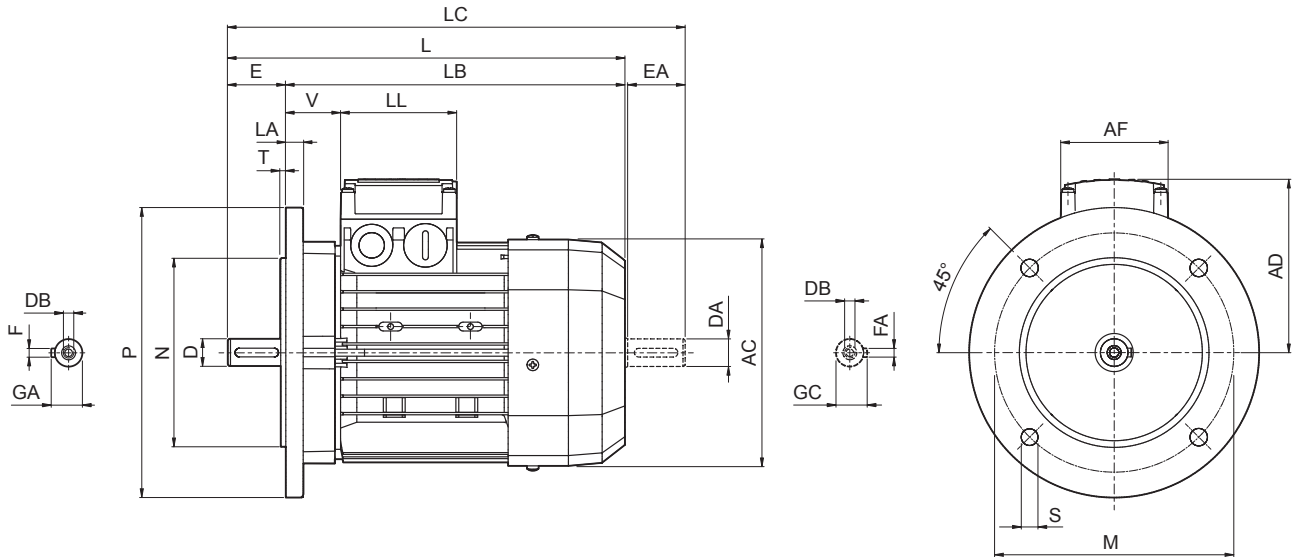






## M15 DIMENSÕES DOS MOTORES BN-M

### BN - IM B5



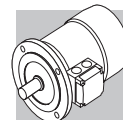
Dimensões em mm

**BN-M**

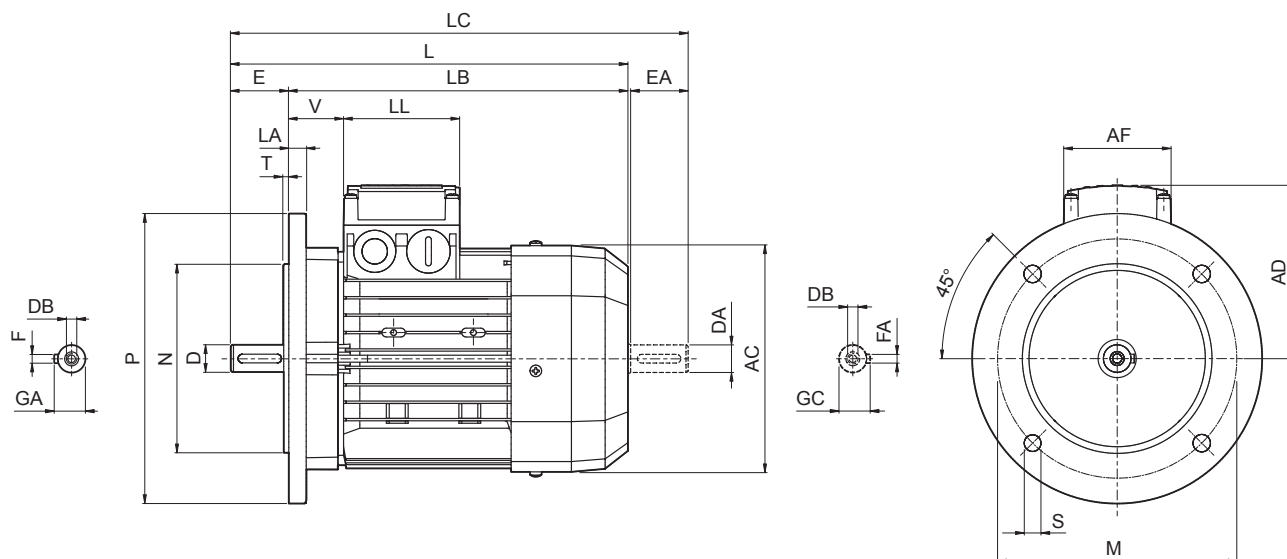
	Eixo					Flange					Motor								
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V
<b>BN 56</b>	9	20	M3	10.2	3	100	80	120	7	3	8	110	185	165	207	91	74	80	34
<b>BN 63</b>	11	23	M4	12.5	4	115	95	140	9.5		10	121	207	184	232	95			26
<b>BN 71</b>	14	30	M5	16	5	130	110	160			11.5	11.5	138	249	219	281			108
<b>BN 80</b>	19	40	M6	21.5	6	165	130	200	11.5	3.5	11.5	156	274	234	315	119	98	98	38
<b>BN 90</b>	24	50	M8	27	8							176	326	276	378	133			44
<b>BN 100</b>	28	60	M10	31	8	215	180	250	14	4	14	195	367	307	429	142	118	118	50
<b>BN 112</b>											15	219	385	325	448	157			52
<b>BN 132</b>											20	258	493	413	576	193			58
<b>BN 160 MR</b>	42 38 (1)	110 80 (1)	M16 M12 (1)	45 41 (1)	12 10 (1)	300	250	350	18.5	5	15	310	562	452	645	245	187	187	218
<b>BN 160 M</b>												310	596	486	680	51			
<b>BN 160 L</b>												310	640	530	724	51			
<b>BN 180 M</b>	48 38 (1)	110 110 (1)	M16 M12 (1)	51.5 41 (1)	14 10 (1)	350	300	400	18.5	5	18	348	708	598	823	261	187	187	52
<b>BN 180 L</b>												348	722	612	837	66			
<b>BN 200 L</b>												348	722	612	837	66			

NOTA:

1) Estes valores referem-se à ponta do eixo traseiro.



## BN - IM B5

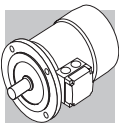


Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

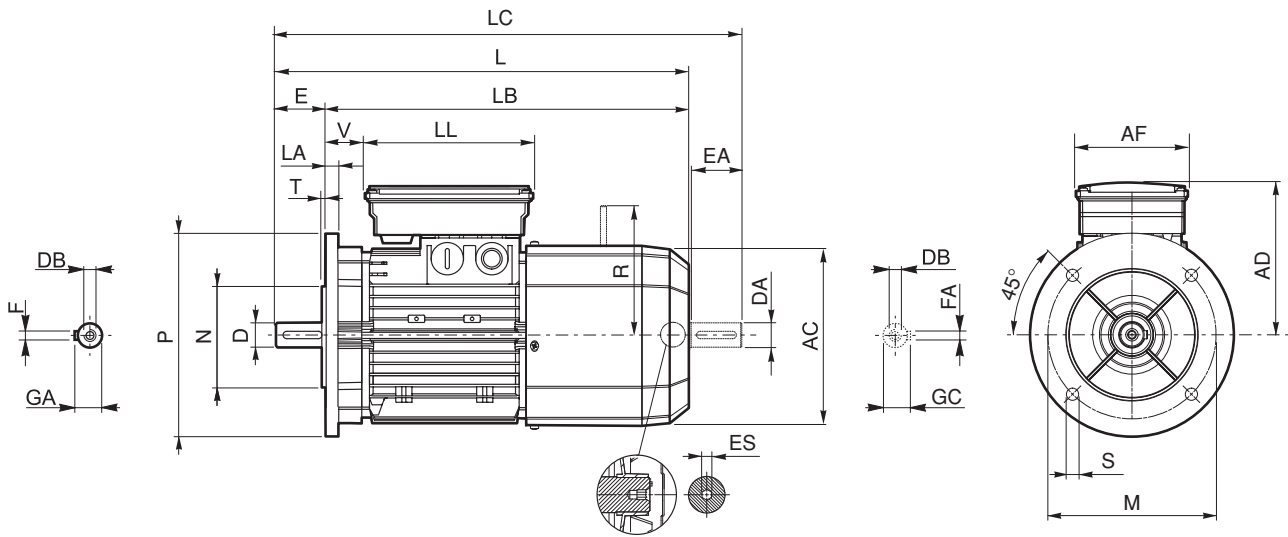
	Eixo					Flange					Motor											
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V			
<b>BN 56</b>	0.354	0.787	M3	0.402	0.118	3.937	3.150	4.724	0.276	0.118	0.315	4.331	7.283	6.496	8.150	3.583	2.913	3.150	1.339			
<b>BN 63</b>	0.433	0.906	M4	0.492	0.157	4.528	3.740	5.512	0.374		0.394	4.764	8.150	7.244	9.134	3.740			1.024			
<b>BN 71</b>	0.551	1.181	M5	0.630	0.197	5.118	4.331	6.299			0.453	0.453	5.433	9.803	8.622	11.063			4.252	1.457		
<b>BN 80</b>	0.748	1.575	M6	0.846	0.236	6.496	5.118	7.874	0.453	0.138	0.453	6.142	10.787	9.213	12.402	4.685	3.858	3.858	1.496			
<b>BN 90</b>	0.945	1.969	M8	1.063	0.315							6.929	12.835	10.866	14.882	5.236			6.181	1.732		
<b>BN 100</b>	1.102	2.362	M10	1.220	0.315	8.465	7.087	9.843	0.551	0.157	0.551	7.677	14.449	12.087	16.890	5.591	3.858	3.858	1.969			
<b>BN 112</b>											0.591	8.622	15.157	12.795	17.638	6.181			2.047			
<b>BN 132</b>	1.496	3.150	M12	1.614	0.394	10.433	9.055	11.811	0.728	0.197	0.787	10.157	19.409	16.260	22.677	7.598	4.646	4.646	2.283			
<b>BN 160 MR</b>	1.654	4.331	M16	1.772	0.472	11.811	9.843	13.780			0.591		12.205	23.465	19.134	26.772	9.646	7.362	7.362	2.008		
<b>BN 160 M</b>											1.496 <sup>(1)</sup>	3.150 <sup>(1)</sup>	M12 <sup>(1)</sup>	1.614 <sup>(1)</sup>	0.395 <sup>(1)</sup>	0.591	12.205				23.465	19.134
<b>BN 160 L</b>									1.890	4.331	M16	2.028	0.551	12.205	25.197	20.866	28.504				9.646	2.008
<b>BN 180 M</b>	1.496 <sup>(1)</sup>	4.331 <sup>(1)</sup>	M12 <sup>(1)</sup>	1.614 <sup>(1)</sup>	0.394 <sup>(1)</sup>	13.780	11.811	15.748	0.709	0.197	0.709	13.701	27.874	23.543	32.402	10.276	7.362	7.362	2.047			
<b>BN 180 L</b>	1.890	4.331	M16	2.018	0.551								28.425	24.094	32.953				2.598			
<b>BN 200 L</b>	1.654 <sup>(1)</sup>	4.331 <sup>(1)</sup>	M16 <sup>(1)</sup>	1.772 <sup>(1)</sup>	0.472 <sup>(1)</sup>								28.425	24.094	32.953				2.598			

NOTA:

1) Estes valores referem-se à ponta do eixo traseiro.



## BN\_FD ; IM B5



Dimensões em mm

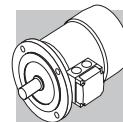
BN-M

	Eixo					Flange					Motor										
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V	R	ES
<b>BN 63</b>	11	23	M4	12.5	4	115	95	140	9.5	3	10	121	272	249	297	122	98	133	14	96	5
<b>BN 71</b>	14	30	M5	16	5	130	110	160	9.5	3.5		138	310	280	342	135			25	103	
<b>BN 80</b>	19	40	M6	21.5	6	165	130	200	11.5			156	346	306	388	146			41	129	
<b>BN 90 S</b>	24	50	M8	27	8					215	180	250	14	4	176	409	359	461	149	110	165
<b>BN 90 L</b>						146	62														
<b>BN 100</b>	28	60	M10	31	10	265	230	300	18.5	5	14	195	458	398	521	158	140	188	46	204 (2)	6
<b>BN 112</b>											15	219	484	424	547	173				165	
<b>BN 132</b>	38	80	M12	41	10	300	250	350	18.5	5	20	258	603	523	686	210	140	188	161	226	
<b>BN 160 MR</b>	42	110	M16	45	12						310		736	626	820						245
<b>BN 160 M</b>	38 (1)	80 (1)	M12 (1)	41 (1)	10 (1)	300	250	350	18.5	5	15	310	780	670	864	245	187	187	52	305	
<b>BN 160 L</b>	42	110	M16	45	12																187
<b>BN 180 M</b>	48	80 (1)	M12 (1)	51.5	14	350	300	400	18.5	5	18	348	866	756	981	261	187	187	52	305	
<b>BN 180 L</b>	38 (1)	110	M16 (1)	45 (1)	12 (1)																878
<b>BN 200 L</b>	55	110 (1)	M20	59	16	350	300	400	18.5	5	18	348	878	768	993	261	187	187	64	305	

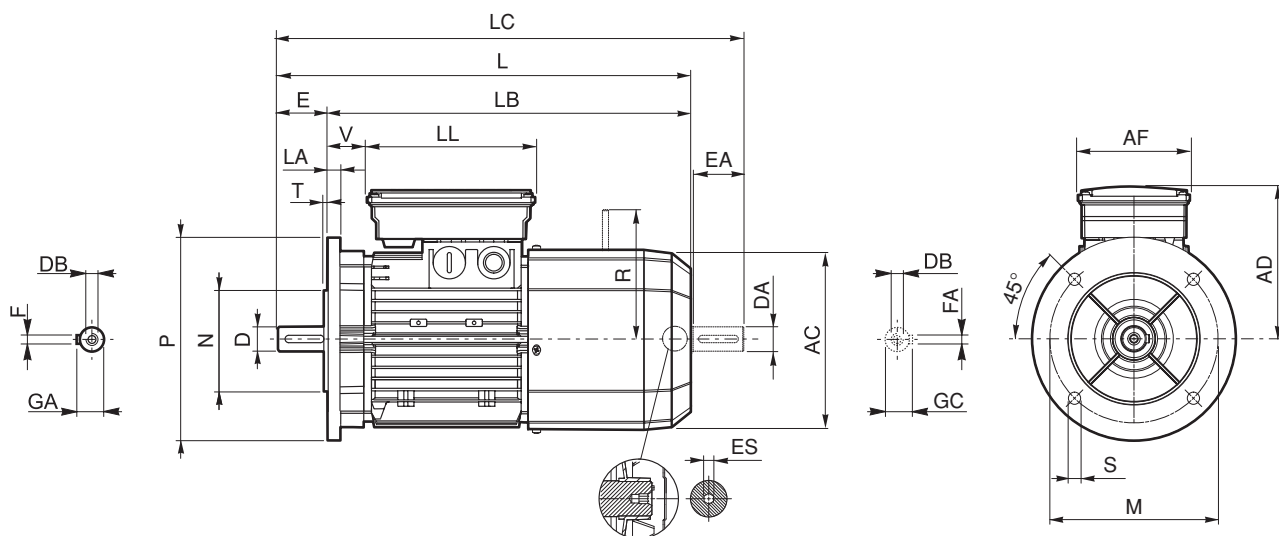
NOTA:

- Estes valores referem-se à ponta do eixo traseiro.
- Para FD07, valor do freio R=226.

Hexágono ES não é fornecido com a opção PS.



## BN\_FD ; IM B5



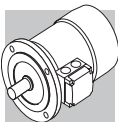
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

	Eixo					Flange					Motor										
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V	R	ES
<b>BN 63</b>	0.433	0.906	M4	0.492	0.157	4.528	3.740	5.512	0.374	0.118		4.764	10.709	9.803	11.693	4.803			0.551	3.780	
<b>BN 71</b>	0.551	1.181	M5	0.630	0.197	5.118	4.331	6.299	0.374		0.394	5.433	12.205	11.024	13.465	5.315	3.858	5.236	0.984	4.055	0.197
<b>BN 80</b>	0.748	1.575	M6	0.846	0.236						0.138	6.142	13.622	12.047	15.276	5.748			1.614		
<b>BN 90 S</b>	0.945	1.969	M8	1.063	0.315	6.496	5.118	7.874	0.453	0.157	0.453	6.929	16.102	14.134	18.150	5.866	4.331	6.496	1.535	6.299	0.236
<b>BN 90 L</b>												5.748	6.496	1.535							
<b>BN 100</b>	1.102	2.362	M10	1.220	0.394	8.465	7.087	9.843	0.551	0.157	0.591	7.677	18.031	15.669	20.512	6.220	4.331	6.496	2.441	7.835	0.236
<b>BN 112</b>												8.622	19.055	16.693	21.535	6.811			6.496		
<b>BN 132</b>	1.496	3.150	M12	1.614	0.394	10.433	9.055	11.811			0.787	10.157	23.740	20.591	27.008	8.268	5.512	7.402	1.811	8.031 <sup>(2)</sup>	
<b>BN 160 MR</b>	1.654	4.331	M16	1.772	0.472																
<b>BN 160 M</b>	1.496 <sup>(1)</sup>	3.150 <sup>(1)</sup>	M12 <sup>(1)</sup>	1.614 <sup>(1)</sup>	0.394 <sup>(1)</sup>																
<b>BN 160 L</b>	1.654	4.331	M16	1.772	0.472	11.811	9.843	13.780	0.728		0.591	12.205	28.976	24.646	32.283	9.646			2.008	10.472	
<b>BN 180 M</b>	1.890	3.150 <sup>(1)</sup>	M12 <sup>(1)</sup>	2.028	0.551								30.709	26.378	34.016		7.362	7.362			
<b>BN 180 L</b>	1.890	4.331	M16	2.028	0.551								34.094	29.764	38.622				2.047		
<b>BN 200 L</b>	2.165	4.331 <sup>(1)</sup>	M20	2.323	0.630	13.780	11.811	15.748	0.728		0.709	13.701				10.276			2.520	12.008	
	1.654 <sup>(1)</sup>		M16 <sup>(1)</sup>	1.772 <sup>(1)</sup>	0.472 <sup>(1)</sup>								34.567	30.236	39.094						

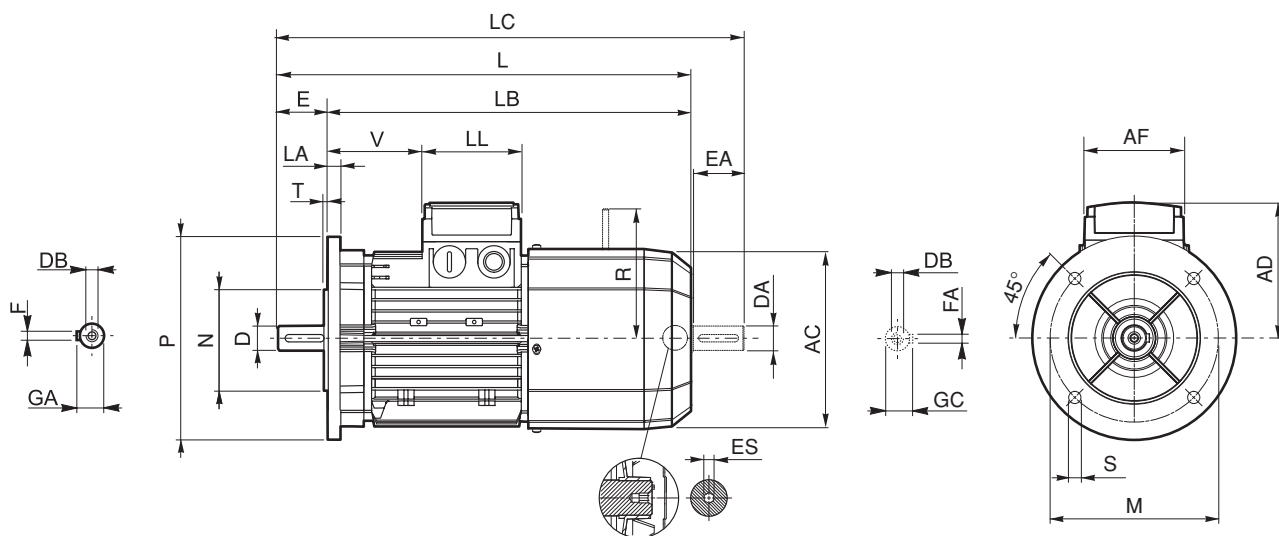
NOTA:

- Estes valores referem-se à ponta do eixo traseiro.
- Para FD07, valor do freio R=8.898.

Hexágono ES não é fornecido com a opção PS.



## BN\_FA - IM B5



Dimensões em mm

BN-M

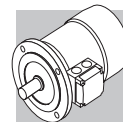
	Eixo					Flange						Motor									
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V	R	ES
BN 63	11	23	M4	12.5	4	115	95	140	9.5	3	10	121	272	249	297	95	74	80	26	116	5
BN 71	14	30	M5	16	5	130	110	160				138	310	280	342	108			68	124	
BN 80	19	40	M6	21.5	6	165	130	200	11.5	3.5	11.5	156	346	306	388	119	98	98	83	134	6
BN 90	24	50	M8	27	176							409	359	461	133	95			160		
BN 100	28	60	M10	31	8	215	180	250	14	4	14	195	458	398	521	142	119	128	198	200 (2)	
BN 112												15	219	484	424	547					157
BN 132	38	80	M12	41	10	265	230	300	18.5	5	15	20	258	603	523	686	210	140	188	46	217
BN 160 MR	42	110	M16 M12 (1)	45 41 (1)	12 10 (1)	300	250	350				18.5		5	15	258	672	562	755	193	118
BN 160 M									310	736	626		820			245	187	187	51	247	
BN 160 L										780	670		864								
BN 180 M									51.5 41 (1)	14 10 (1)											

NOTA:

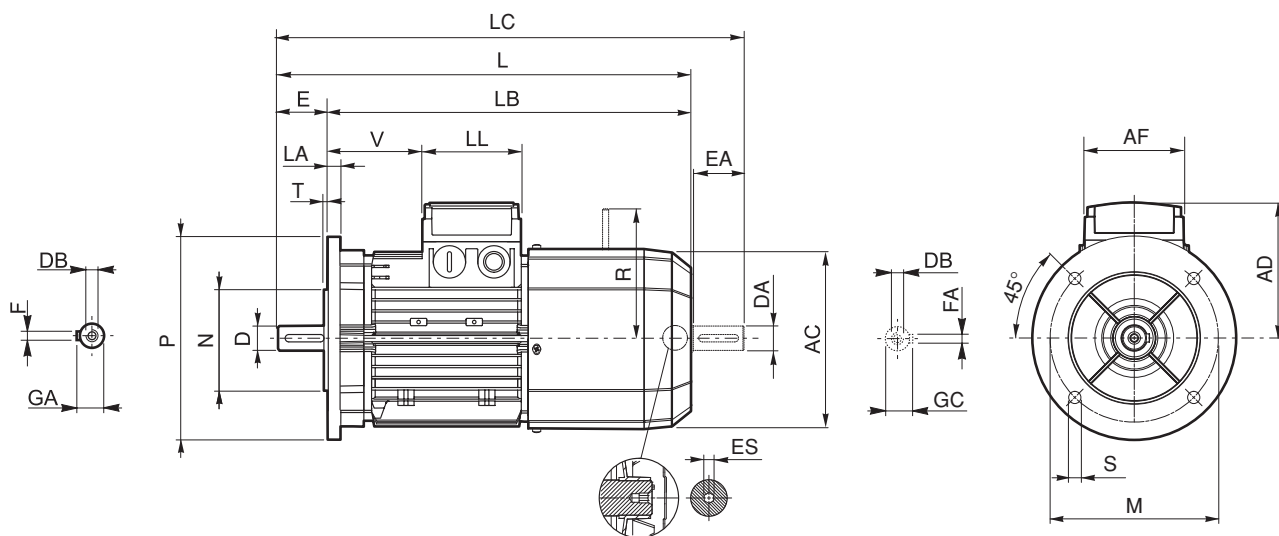
- 1) Estes valores referem-se à ponta do eixo traseiro.
- 2) Para FA07, valor do freio R=217.

As dimensões AD, AF, LL e V, relevantes para a caixa de terminais dos motores BN...FA com fonte de alimentação de freio separada (opção SA) são coincidentes com as respectivas dimensões dos motores BN...FD do mesmo tamanho.

Hexágono ES não é fornecido com a opção PS.



## BN\_FA - IM B5



Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

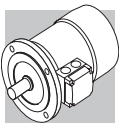
	Eixo					Flange					Motor										
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V	R	ES
<b>BN 63</b>	0.433	0.906	M4	0.492	0.157	4.528	3.740	5.512	0.374	0.118	0.394	4.764	10.709	9.803	11.693	3.740	2.913	3.150	1.024	4.567	0.197
<b>BN 71</b>	0.551	1.181	M5	0.630	0.197	5.118	4.331	6.299		0.138		0.453	5.433	12.205	11.024	13.465		4.252	3.268	5.276	
<b>BN 80</b>	0.748	1.575	M6	0.846	0.236	6.496	5.118	7.874	0.453	0.138	0.453	6.142	13.622	12.047	15.276	4.685	3.858	3.858	3.740	6.299	0.236
<b>BN 90</b>	0.945	1.969	M8	1.063	0.315							8.465	7.087	9.843	0.551	0.157		0.591	8.622	19.055	
<b>BN 100</b>	1.102	2.362	M10	1.220	0.315	10.433	9.055	11.811	0.551	0.157	0.787	10.157	23.740	20.591	27.008	8.268	5.512	7.402	1.811	7.874 <sup>(2)</sup>	—
<b>BN 112</b>													26.457	22.126	29.724	7.598	4.646	4.646	8.583	8.543	
<b>BN 132</b>	1.496	3.150	M12	1.614	0.394	11.811	9.843	13.780	0.728	0.197	0.591	12.205	28.976	24.646	32.283	9.646	7.362	7.362	2.008	9.724	
<b>BN 160 MR</b>	1.654	4.331	M16	1.772	0.472								1.614 <sup>(1)</sup>	0.394 <sup>(1)</sup>	11.811	9.843	13.780	0.728	0.197	0.591	30.709
<b>BN 160 M</b>						1.496 <sup>(1)</sup>	3.150 <sup>(1)</sup>	M12 <sup>(1)</sup>	2.028	0.551	1.614 <sup>(1)</sup>	0.394 <sup>(1)</sup>									—
<b>BN 160 L</b>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>BN 180 M</b>	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

NOTA:

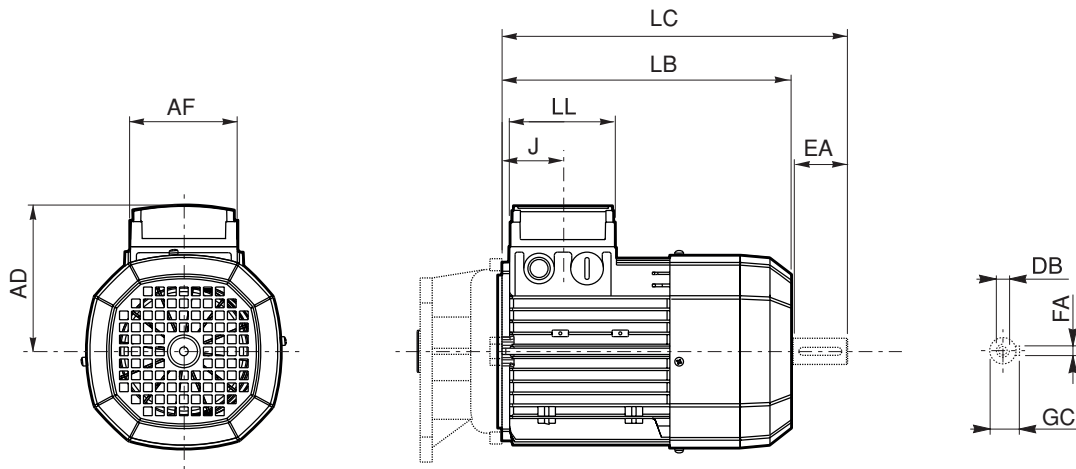
- Estes valores referem-se à ponta do eixo traseiro.
- For FA07 brake value R=8.543

As dimensões AD, AF, LL e V, relevantes para a caixa de terminais dos motores BN...FA com fonte de alimentação de freio separada (opção SA) são coincidentes com as respectivas dimensões dos motores BN...FD do mesmo tamanho.

Hexágono ES não é fornecido com a opção PS.



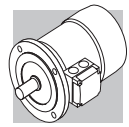
# M



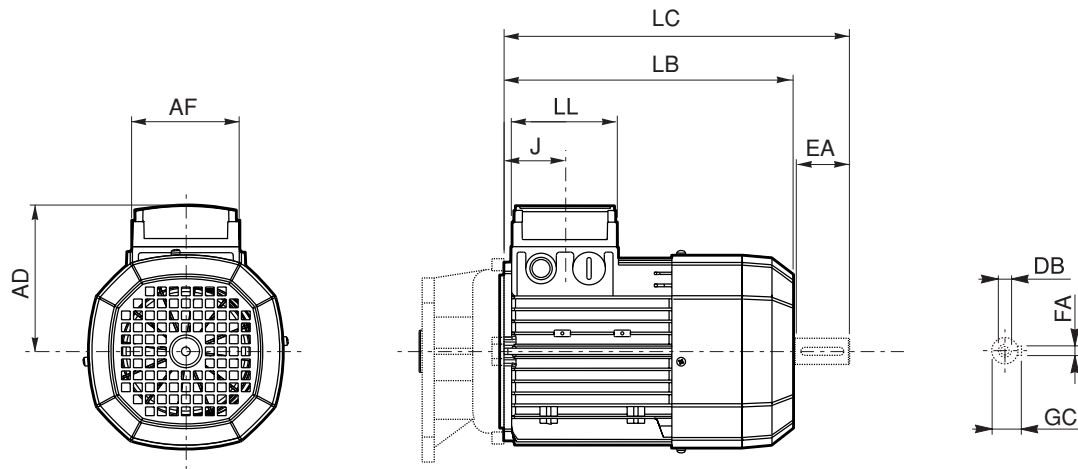
Dimensões em mm

**BN-M**

	Ponta do eixo traseiro					Motor						
	DA	EA	DB	FA	GC	AC	LB	LC	AF	LL	J	AD
<b>M 0</b>	9	20	M3	3	10.2	110	133	155	74	80	42	91
<b>M 05</b>	11	23	M4	4	12.5	121	165	191			48	95
<b>M 1</b>	14	30	M5	5	16	138	187	219			45	108
<b>M 2 S</b>	19	40	M6	6	21.5	156	202	245			44	119
<b>M 3 S</b>	28	60	M10	8	31	195	230	293	98	98	53.5	142
<b>M 3 L</b>							262	325				
<b>M 4</b>	38	80	M12	10	41	258	361	444	118	118	64.5	193
<b>M 4 LC</b>							396	479				
<b>M 5 S</b>						310	418	502	187	187	77	245
<b>M 5 L</b>							462	546				



# M

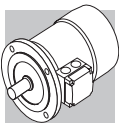


Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

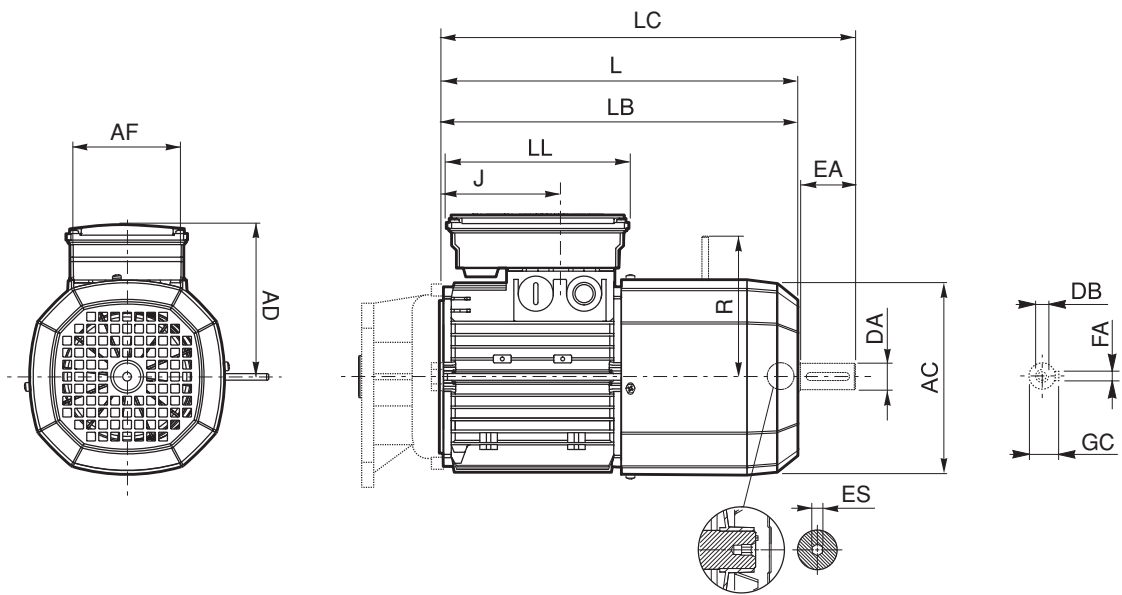
	Ponta do eixo traseiro					Motor						
	DA	EA	DB	FA	GC	AC	LB	LC	AF	LL	J	AD
<b>M 0</b>	0.354	0.787	<i>M3</i>	0.118	0.402	4.331	5.236	6.102	2.913	3.150	1.654	3.583
<b>M 05</b>	0.433	0.906	<i>M4</i>	0.157	0.492	4.764	6.496	7.520			1.890	3.740
<b>M 1</b>	0.551	1.181	<i>M5</i>	0.197	0.630	5.433	7.362	8.622			1.772	4.252
<b>M 2 S</b>	0.748	1.575	<i>M6</i>	0.236	0.846	6.142	7.953	9.646			1.732	4.685
<b>M 3 S</b>	1.102	2.362	<i>M10</i>	0.315	1.220	7.677	9.055	11.535	3.858	3.858	2.106	5.591
<b>M 3 L</b>						10.315	12.795					
<b>M 4</b>	1.496	3.150	<i>M12</i>	0.394	1.614	10.157	14.213	17.480	4.646	4.646	2.539	7.598
<b>M 4 LC</b>						15.591	18.858					
<b>M 5 S</b>						12.205	16.457	19.764	7.362	7.362	3.031	9.646
<b>M 5 L</b>							18.189	21.496				

**BN-M**





# M\_FD



Dimensões em mm

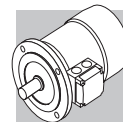
**BN-M**

	Ponta do eixo traseiro					Motor								
	DA	EA	DB	FA	GC	AC	LB	LC	AF	LL	J	AD	R	ES
<b>M 05</b>	11	23	M4	4	12.5	121	231	256	98	133	48	122	96	5
<b>M 1</b>	14	30	M5	5	16	138	248	280			73	135	103	
<b>M 2 S</b>	19	40	M6	6	21.5	156	272	314			88	146	129	
<b>M 3 S</b>	28	60	M10	8	31	195	326	389	110	165	124.5	158	160	6
<b>M 3 L</b>							353	416						
<b>M 4</b>	38	80	M12	10	41	258	470	553	140	188	185.5	210	204 (1)	
<b>M 4 LC</b>							495	578			64.5		226	
<b>M 5 S</b>						310	602	686	187	187	77	245	266	
<b>M 5 L</b>														

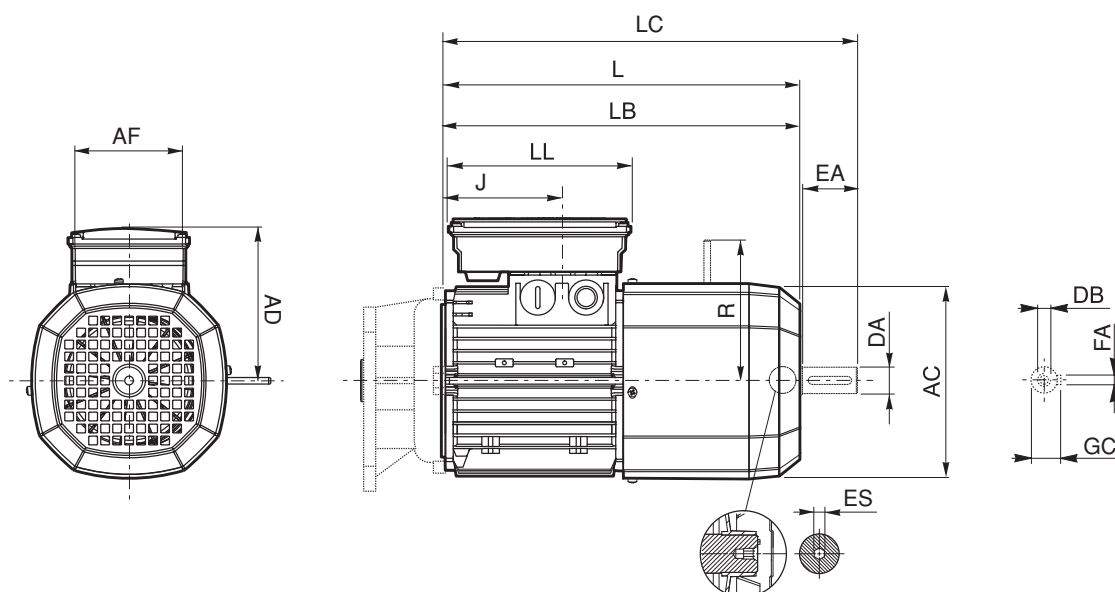
NOTA:

1) Para FD07, valor do freio R=226.

Hexágono ES não é fornecido com a opção PS.



# M\_FD



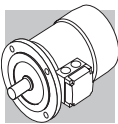
Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

	Ponta do eixo traseiro					Motor									
	DA	EA	DB	FA	GC	AC	LB	LC	AF	LL	J	AD	R	ES	
<b>M 05</b>	0.433	0.906	<i>M4</i>	0.157	0.492	4.764	9.094	10.079	3.858	5.236	1.890	4.803	3.780	0.197	
<b>M 1</b>	0.551	1.181	<i>M5</i>	0.197	0.630	5.433	9.764	11.024			2.874	5.315	4.055		
<b>M 2 S</b>	0.748	1.575	<i>M6</i>	0.236	0.846	6.142	10.709	12.362			3.465	5.748	5.079		
<b>M 3 S</b>	1.102	2.362	<i>M10</i>	0.315	1.220	7.677	12.835	15.315	4.331	6.496	4.902	6.220	6.299	0.236	
<b>M 3 L</b>							13.898	16.378							
<b>M 4</b>	1.496	3.150	<i>M12</i>	0.394	1.614	10.157	18.504	21.772	5.512	7.402	7.303	8.268	8.031 <sup>(1)</sup>		
<b>M 4 LC</b>							19.488	22.756			2.539		8.898		
<b>M 5 S</b>							12.205	21.969	25.276	7.362	7.362	3.031	9.646	10.472	—
<b>M 5 L</b>															

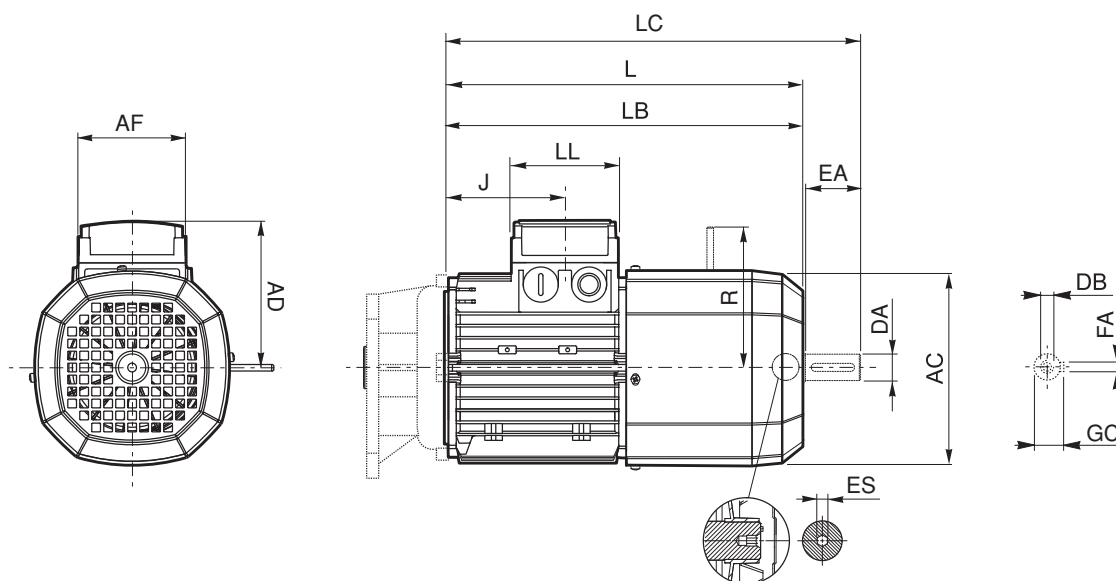
NOTA:

1) Para FD07, valor do freio R=8.898.

Hexágono ES não é fornecido com a opção PS.



## M\_FA



Dimensões em mm

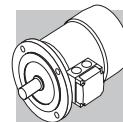
	Ponta do eixo traseiro					Motor									
	DA	EA	DB	FA	GC	AC	LB	LC	AF	LL	J	AD	R	ES	
<b>M 05</b>	11	23	M4	4	12.5	121	231	256							
<b>M 1</b>	14	30	M5	5	16	138	248	280	74	80	48	95	116	5	
<b>M 2 S</b>	19	40	M6	6	21.5	156	272	314			73	108	124		
											88	119	134		
<b>M 3 S</b>	28	60	M10	8	31	195	326	389	98	98	124.5	142	160	6	
<b>M 3 L</b>							353	416							
<b>M 4</b>	38	80	M14	10	41	258	470	553	140	188	185.5	210	200 (1)		
<b>M 4 LC</b>							495	578			64.5		217		
<b>M 5 S</b>			M12			310	558	642	187	187	77	245	247		—
<b>M 5 L</b>															

NOTA:

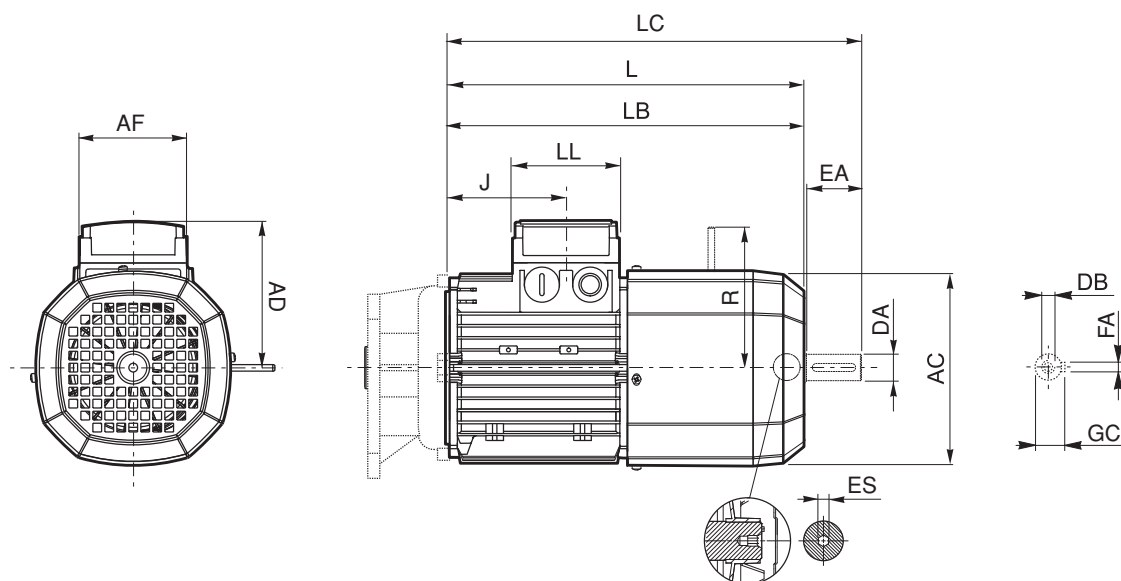
1) Para FA07, valor do freio R=217.

As dimensões AD, AF, LL e V, relevantes para a caixa de terminais dos motores M...FA com fonte de alimentação de freio separada (opção SA) são coincidentes com as respectivas dimensões dos motores M...FD do mesmo tamanho

Hexágono ES não é fornecido com a opção PS.



# M\_FA



Dimensões em polegadas, exceto quando mostrados em *itálico* [mm]

	Ponta do eixo traseiro					Motor								
	DA	EA	DB	FA	GC	AC	LB	LC	AF	LL	J	AD	R	ES
<b>M 05</b>	0.433	0.906	<i>M4</i>	0.157	0.492	4.764	9.094	10.079	2.913	3.150	1.890	3.740	4.567	0.197
<b>M 1</b>	0.551	1.181	<i>M5</i>	0.197	0.630	5.433	9.764	11.024			2.874	4.252	4.882	
<b>M 2 S</b>	0.748	1.575	<i>M6</i>	0.236	0.846	6.142	10.709	12.362			3.465	4.685	5.276	
<b>M 3 S</b>	1.102	2.362	<i>M10</i>	0.315	1.220	7.677	12.835	15.315	3.858	3.858	4.902	5.591	6.299	0.236
<b>M 3 L</b>							13.898	16.378						
<b>M 4</b>	1.496	3.150	<i>M14</i>	0.394	1.614	10.157	18.504	21.772	5.512	7.402	7.303	8.268	7.874 <sup>(1)</sup>	
<b>M 4 LC</b>							19.488	22.756			2.539		8.543	
<b>M 5 S</b>			<i>M12</i>			12.205	21.969	25.276	7.362	7.362	3.031	9.646	9.724	—
<b>M 5 L</b>														

**BN-M**

NOTA:


1) Para FA07, valor do freio R=8.543.

Para motores dos tipos BN..FA, as dimensões das caixas de terminais AD, AF, LL, V são as mesmas que para o tipos BN..FD.

Hexágono ES não é fornecido com a opção PS.



## ÍNDICE DE REVISÕES

BR_CAT_CAFS_NEM_POR_R01_2	
	Descrição
...	Atualizados disponibilidade de motor.
...	Fixos tamanhos A 50, C 12, C 32, entrada P80, P90 e eixo do cliente F 41.
294	Corrigida tabela de tamanho do redutor A 05...P(IEC) com entrada P80.
636...711	Atualizada seção "Motores Eléctricos"

2024.04.18

Esta publicação cancela e substitui todas as edições e revisões anteriores. Reservamo-nos o direito de alterar este catálogo sem aviso prévio. Este catálogo não pode ser reproduzido, total ou parcialmente, sem autorização prévia.





Temos um incansável compromisso com a excelência, inovação e sustentabilidade. Nossa Equipe cria, distribui e oferece suporte em soluções de transmissão e controle de potência para manter o mundo em movimento.

**SEDE PRINCIPAL**

**Bonfiglioli S.p.A**

Via Cav. Clementino Bonfiglioli, 1  
40012 Calderara di Reno - Bologna (Italy)  
Tel. +39 051 6473111

