

TRANSTECNO[®]
the modular gearmotor

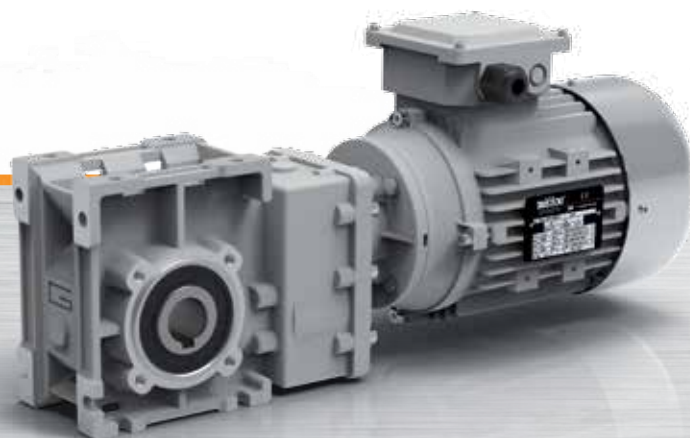
CMB

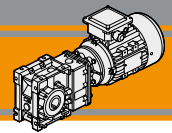


60HZ

IEC

Motorreductores de ejes ortogonales
Motoredutores com eixos ortogonais
Helical bevel gearmotors



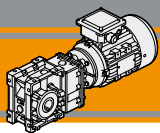


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CMB

Motorreductores de ejes ortogonales
 Motores com eixos ortogonais
 Helical bevel gearmotors

60 Hz

Características técnicas

Los motoredutores de ejes ortogonales serie CMB se caracterizan por un alto grado de modularidad, de hecho, fueron desarrollados con una carcasa completamente intercambiable con la de los reductores de tornillo sinfin de la serie CM. Por lo tanto, se configuran de acuerdo con las necesidades de la aplicación: con brida de salida, eje de salida, brazo de reacción.

Características comunes a toda la serie:

- Carcasa en aluminio en los tamaños.
- Engranajes siempre rectificadas.
- Lubricación permanente con aceite sintético de larga vida.

Características técnicas

Os motoredutores CMB, são caracterizados por um elevado grau de modularidade: sua carcaça é completamente intercambiável com a série CM (rosca sem-fim). Eles são configurados de acordo com as necessidades da aplicação, com flange de saída, eixo de saída ou braço de torção.

Características comuns a toda a série:

- Carcaça em alumínio nos tamanhos.
- Lubrificação permanente com óleo sintético.
- Lubrificação permanente com óleo sintético

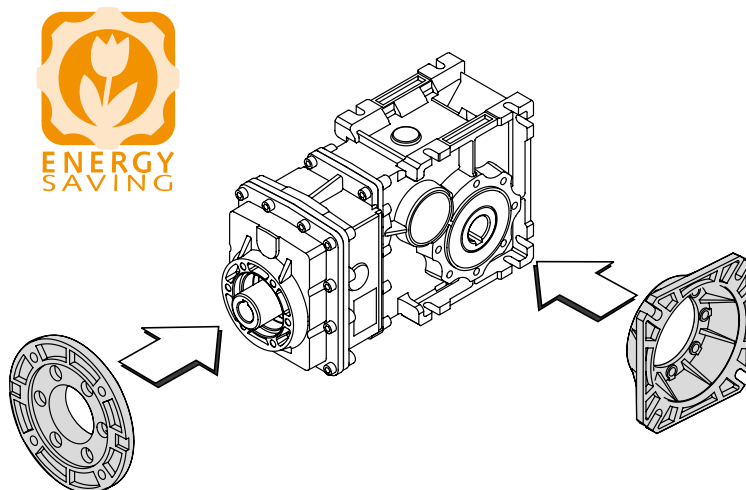
Technical features

The high degree of modularity of CMB helical bevel gearmotors allows it to be completely interchangeable with CM wormgearboxes.

It is possible to set up the version required using output flanges, output shafts and optional torque arms.

Common features of all CMB range are:

- Die-cast aluminum housing.
- Ground helical gears.
- Permanent synthetic oil long-life lubrication.



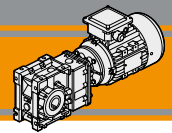
Clasificación

Designação

Classification

REDUCTOR / REDUTOR / GEARBOX										
CMB	63 3	U	9.81	D25	90	B5	SZDX	BR SX	90	
Tipo Tipo Type	Tamaño Tamanho Size	Etapas Estágios Stages	Versión Versão Version	Relación de reducción Rapporto Ratio	Eje de salida hueco Eixo saída vazado Hollow output shaft	IEC 	Forma constructiva Forma construtiva Version	Ø Eje de salida Ø Eixo saída Ø Output shaft	Brazo de reacción Braço de reação Torque arm	Ángulo Ângulo Angle
	40 50 63 90	2 3	U FD FS FBD FBS FLD FLS	Véase tablas Veja tabelas see tables	Véase tablas Veja tabelas see tables	56.. — 90..	B5 B14	SZDX SZSX DZ	BRDX BR SX *	0° 90° 180° 270°

REDUCTOR / REDUTOR / GEARBOX									
CMBIS	63 3	U	9.81	D25	SZDX	BR SX	90		
Tipo Tipo Type	Tamaño Tamanho Size	Etapas Estágios Stages	Versión Versão Version	Relación de reducción Rapporto Ratio	Eje de salida hueco Eixo saída vazado Hollow output shaft	Ø Eje de salida Ø Eixo saída Ø Output shaft	Brazo de reacción Braço de reação Torque arm	Ángulo Ângulo Angle	
	40 50 63 90	2 3	U FD FS FBD FBS FLD FLS	Véase tablas Veja tabelas see tables	Véase tablas Veja tabelas see tables	SZDX SZSX DZ	BRDX BR SX *	0° 90° 180° 270°	



Clasificación

Designação

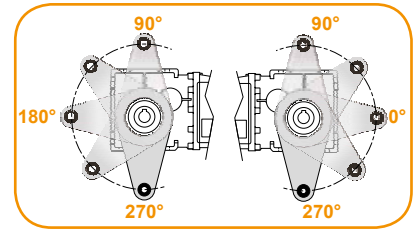
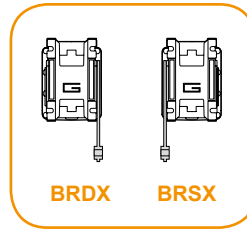
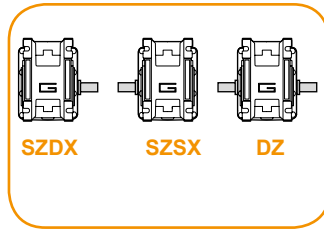
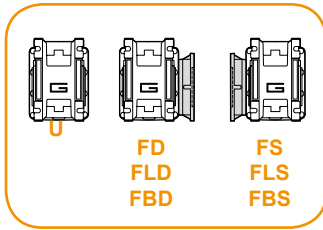
Classification

Relación de reducción
 Versão Redutor
 Gearbox Version

Eje de salida
 Eixo de saída
 Output shaft

Braço de reacção
 Braço de reação
 Torque arm *

Ángulo
 Ângulo
 Angle



CMB

NOTA: el brazo de reacción se suministra desmontado.

* NOTA: o braço de reação é fornecido desmontado.

NOTE: the torque arm will be supplied not assembled.

MOTOR / MOTOR / MOTOR

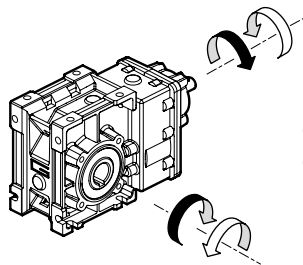
0.75kW	4p	3ph	230/400V	60Hz	T1
Potencia Potência Power	Polos Pólos Poles	Fases Fases Phases	Tensión Tensão Voltage	Frecuencia Frequência Frequency	Posición caja de bornes Pos. Conexão Terminal box pos.
Veja tabelas Véase tablas see tables	2p 4p 6p 8p	1ph 3ph	230V 230/400V	60Hz	T1 (Std) T4 T2 T3

Sentidos de rotación

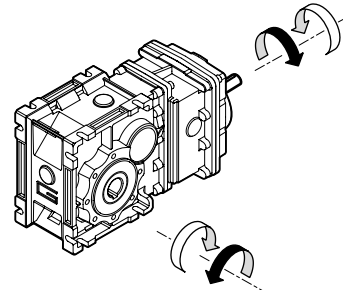
Sentidos de rotação

Direction of rotation

CMB...2
 CMBIS..2



CMB...3
 CMBIS..3

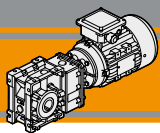


Nomenclatura

Simbologia

Legend

n_1	[rpm]	Velocidad de entrada / Velocidade na entrada / Input speed
n_2	[rpm]	Velocidad de salida / Velocidade na saída / Output speed
i		Relación de reducción / Relação de redução / Ratio
P_1	[kW]	Potencia en la entrada / Potência da entrada / Input power
M_2	[Nm]	Par en la salida en función de P_1 / Torque na saída em função de P_1 / Output torque referred to P_1
P_{n1}	[kW]	Potencia nominal en la entrada / Potência nominal na entrada / Nominal input power
M_{n2}	[Nm]	Par nominal en la salida en función de P_{n1} / Torque nominal na saída em função de P_{n1} / Nominal output torque referred to P_{n1}
sf		Factor de servicio / Fator de serviço / Service factor
R_2	[N]	Carga radial admisible en la salida / Carga radial admissível na saída / Maximum output radial load
A_2	[N]	Carga axial admisible en la salida / Carga axial admissível na saída / Maximum output axial load



Lubricación

Todos los motoredutores de ejes ortogonales se suministran con lubricante sintético, viscosidad 320, por lo que se pueden instalar en cualquier posición de montaje y no requieren mantenimiento.

Lubrificação

Todas os são fornecidos com lubrificante sintético, viscosidade 320, de modo que possam ser instalado em qualquer posição.

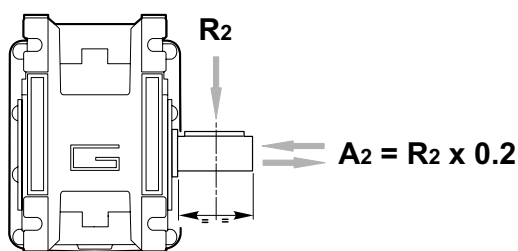
Lubrication

Permanent synthetic oil long-life lubrication (viscosity grade 320) makes it possible to use CMB gearmotors in all mounting positions; for this reason they can be installed in any assembly position and do not require maintenance.

Cargas radiales

Cargas radiais

Radial loads

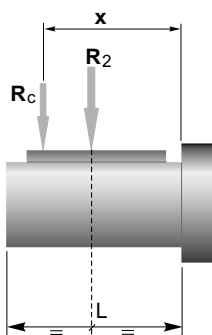


n_2 [min ⁻¹]	R_2 [N]			
	CMB 402	CMB 502	CMB 633	CMB 903
400	905	1116	1835	2682
300	996	1228	2020	2952
200	1141	1406	2312	3379
170	1204	1484	2441	3567
140	1414	1743	2604	3806
100	1582	1949	2913	4686
90	1638	2019	3321	4853
60	2047	2490	3801	5556
40	2524	3029	4492	6614
30	2778	3334	5159	7540
20	3180	3816	5906	8631
15	3500	4200	6500	9500
10	3500	4200	6500	9500

Cuando la carga radial no se aplica en el punto medio del eje, es necesario calcular la carga efectiva a través la siguiente fórmula:

Quando a carga radial resultante não é aplicada na linha mediana da eixo, é preciso calcular aquela efetiva com a seguinte fórmula:

When the resulting radial load is not applied on the centre line of the shaft it is necessary to calculate the effective load with the following formula:

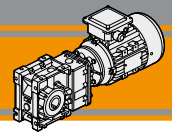


	CMB 402	CMB 502	CMB 633	CMB 903
a	86	104	118	157
b	66	79	93	117
R_{2MAX}	3500	4200	6500	9500

$$R_c = \frac{R_2 \cdot a}{(b + x)} \leq R_{2MAX}$$

$$R \leq R_c$$

a, b = valores dados en la tabla
a, b = valores referidos na tabela
a, b = values given in the table

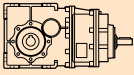



Datos técnicos

Dados técnicos

Technical data

n_1 1750 [min⁻¹]

	n_2 [min ⁻¹]	Mn_2 [Nm]	Pn_1 [kW]	i	IEC Motores aplicables IEC Motores aplicáveis IEC Motor adapters			
					56 B5/B14	63 B5/B14	71 B5/B14	80 B5/B14
CMBIS 402								
	283	40	1.3	6.18				*
	234	40	1.0	7.49				*
	190	40	0.85	9.20				*
	148	45	0.74	11.83				*
	140	45	0.70	12.48				*
	118	45	0.59	14.83				*
	99	45	0.50	17.63				*
	94	55	0.58	18.60				*
	78	55	0.48	22.33				*
	73	55	0.45	23.91				*
	61	65	0.44	28.89				*
	57	65	0.41	30.84				*
	52	65	0.38	33.57				*
	49	65	0.36	35.63				*
	41	65	0.30	42.75			*	*
	32	65	0.23	55.31			*	*
	30	65	0.21	59.06			*	*
	27	65	0.20	64.29			*	*
	24	65	0.17	72.50			*	*

	n_2 [min ⁻¹]	Mn_2 [Nm]	Pn_1 [kW]	i	IEC Motores aplicables IEC Motores aplicáveis IEC Motor adapters			
					56 B5/B14	63 B5/B14	71 B5/B14	80 B5/B14
CMBIS 502								
	283	70	2.2	6.18				
	234	70	1.8	7.49				
	190	70	1.5	9.20				
	148	90	1.5	11.83				
	140	90	1.4	12.48				
	118	90	1.2	14.83				
	99	90	1.0	17.63				
	94	110	1.2	18.60				
	78	110	0.96	22.33				
	73	110	0.90	23.91				
	61	125	0.84	28.89				
	57	125	0.79	30.84				
	52	125	0.73	33.57				
	49	125	0.68	35.63				
	41	125	0.57	42.75				*
	32	125	0.44	55.31				*
	30	125	0.41	59.06				*
	27	125	0.38	64.29				*
	24	125	0.34	72.50				*

NOTA

Las áreas resaltadas indican el tamaño de carcasa del motor correspondiente.

N.B.

As áreas destacadas indicam a aplicabilidade correspondente ao tamanho do motor.

N.B.

Highlighted areas indicate motor inputs available on each size of unit.



* = El Factor de servicio (sf) se deberá seleccionar con respecto a la aplicación: Favor de contactar con nuestro Servicio Técnico



* = O fator de serviço (sf) deve ser escolhido em função da aplicação: entre em contato com o nosso Serviço Técnico.

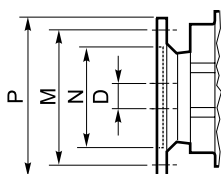


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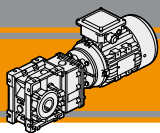
Antes de seleccionar cualquier reductor, favor de revisar los valores de desempeño en las páginas C8 a la C11.

Antes de executar a escolha do motoredutor analisar o desempenho listado nas tabelas das páginas C8 a pag. C11.

Before selecting any gearbox, please read the performance values shown in the tables on page C8 to C11.



IEC Dimension / IEC Dimensões / IEC Dimensions								
	56 B5	56 B14	63 B5	63 B14	71 B5	71 B14	80 B5	80 B14
N	80	50	95	60	110	70	130	80
M	100	65	115	75	130	85	165	100
P	120	80	140	90	160	105	200	120
D	9		11		14		19	

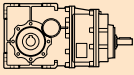


Datos técnicos

Dados técnicos

Technical data

n₁ 1750 [min⁻¹]

	n ₂ [min ⁻¹]	Mn ₂ [Nm]	Pn ₁ [kW]	i	IEC Motores aplicables IEC Motores aplicáveis IEC Motor adapters					
					56 B5/B14	63 B5/B14	71 B5/B14	80 B5/B14	90 B5/B14	
CMBIS 633										
266	150	4.4	6.58							
219	150	3.7	7.99							
178	150	3.0	9.81							
168	150	2.8	10.44							
140	150	2.3	12.53							
131	150	2.2	13.31							
111	170	2.1	15.81							
98	220	2.4	17.77							
81	220	2.0	21.56							
66	220	1.6	26.48							
62	220	1.5	28.17							
52	220	1.3	33.81							
49	220	1.2	35.92							*
45	250	1.3	38.88							*
37	250	1.0	47.16							*
30	250	0.84	57.93							*
28	250	0.79	61.63							*
24	250	0.66	73.96							*
22	250	0.62	78.58				*			*
19	250	0.52	93.33				*			*
12	250	0.35	140.52				*			*
9.6	250	0.27	181.81			*	*			*
8.3	250	0.23	211.31			*	*			*
7.3	250	0.20	238.31			*	*			*

NOTA

Las áreas resaltadas indican el tamaño de carcasa del motor correspondiente.

N.B.

As áreas destacadas indicam a aplicabilidade correspondente ao tamanho do motor.

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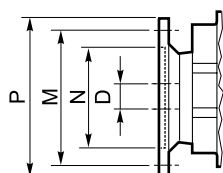


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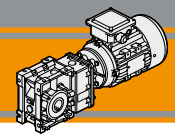
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Antes de executar a escolha do motoredutor analisar o desempenho listado nas tabelas das páginas C8 a pag. C11.

Before selecting any gearbox, please read the performance values shown in the tables on page C8 to C11.



IEC Dimension / IEC Dimensões / IEC Dimensions										
	56 B5	56 B14	63 B5	63 B14	71 B5	71 B14	80 B5	80 B14	90 B5	90 B14
N	80	50	95	60	110	70	130	80	130	95
M	100	65	115	75	130	85	165	100	165	115
P	120	80	140	90	160	105	200	120	200	140
D	9		11		14		19		24	

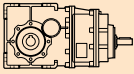


Datos técnicos

Dados técnicos

Technical data

 n_1 1750 [min⁻¹]

	n_2 [min ⁻¹]	Mn_2 [Nm]	Pn_1 [kW]	i	IEC Motores aplicables IEC Motores aplicáveis IEC Motor adapters			
					71 B5	80 B5/B14	90 B5/B14	100/112 B5/B14
CMBIS 903								
263	280	8.2	6.65					
219	280	6.8	8.00					
180	280	5.6	9.74					
156	280	4.9	11.21					
124	300	4.1	14.09					
98	450	4.9	17.95					
81	450	4.1	21.60					
67	450	3.3	26.30					
58	450	2.9	30.25					
45	500	2.5	39.26					*
37	500	2.1	47.25					*
30	500	1.7	57.52					*
26	500	1.5	66.17					*
21	500	1.2	83.20			*		*
16	500	0.90	108.09			*		*
13	500	0.74	132.23			*		*
12	500	0.66	147.92			*		*
10	500	0.58	167.09			*		*
9.2	500	0.51	191.06		*	*		*
7.9	500	0.44	221.88		*	*		*
6.7	500	0.37	262.96		*	*		*

NOTA

Las áreas resaltadas indican el tamaño de carcasa del motor correspondiente.



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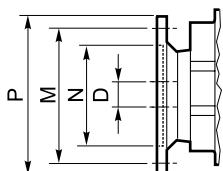


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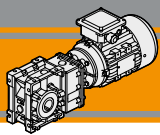
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IEC Dimension / IEC Dimensões / IEC Dimensions							
	71 B5	80 B5	80 B14	90 B5	90 B14	100/112 B5	100/112 B14
N	110	130	80	130	95	180	110
M	130	165	100	165	115	215	130
P	160	200	120	200	140	250	160
D	14	19		24		28	



CMB

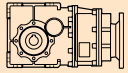

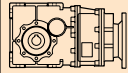

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 Motores com eixos ortogonais
 Helical bevel gearmotors

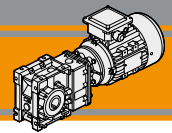
60 Hz

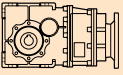

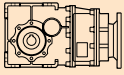

Datos técnicos

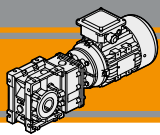
Dados técnicos

Technical data

P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i			P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i								
0.09							0.12												
(0.12 hp)	283	2.9	14.0	6.18	CMB402	B5/B14	(0.16 hp)	24	46	5.5	73.96	CMB633	B5/B14						
	234	3.5	11.6	7.49			B5/B14		22	48	5.2			78.58	B5/B14				
56B4	190	4.2	9.4	9.20			B5/B14		63A4	19	57			4.4	93.33	B5/B14			
(1750 min ⁻¹)	148	5.5	8.2	11.83			B5/B14		(1750 min ⁻¹)	12	86			2.9	140.52	B5/B14			
	140	5.8	7.8	12.48			B5/B14			10	112			2.2	181.81	B5/B14			
	118	6.8	6.6	14.83			B5/B14			8.3	130			1.9	211.31	B5/B14			
	99	8.1	5.5	17.63			B5/B14			7.3	147			1.7	238.31	B5/B14			
	94	8.6	6.4	18.60			B5/B14												
	78	10	5.3	22.33			B5/B14												
	73	11	5.0	23.91			B5/B14												
	61	13	4.9	28.89			B5/B14												
	57	14	4.6	30.84			B5/B14												
	52	15	4.2	33.57	B5/B14														
	49	16	4.0	35.63	B5/B14														
	41	20	3.3	42.75	B5/B14														
	32	26	2.5	55.31	B5/B14														
	30	27	2.4	59.06	B5/B14														
	27	30	2.2	64.29	B5/B14														
	24	33	1.9	72.50	B5/B14														
	32	26	4.9	55.31	CMB502	B5/B14													
	30	27	4.6	59.06		B5/B14													
	27	30	4.2	64.29		B5/B14													
	24	33	3.7	72.50		B5/B14													
	24	34	7.32	73.96	CMB633	B5/B14													
	22	36	6.89	78.58		B5/B14													
	19	43	5.80	93.33		B5/B14													
	13	65	3.85	140.52		B5/B14													
	10	84	2.98	181.81		B5/B14													
	8	98	2.56	211.31		B5/B14													
	7	110	2.27	238.31		B5/B14													
	283	5.7	7.0	6.18		CMB402	B5/B14	(0.25 hp)	283	5.7	7.0	6.18	CMB502	B5/B14					
	234	6.9	5.8	7.49				B5/B14		234	6.9	5.8			7.49	B5/B14			
	190	8.5	4.7	9.20				B5/B14		63B4	190	8.5			4.7	9.20	B5/B14		
	148	11	4.1	11.83	B5/B14				(1750 min ⁻¹)	148	11	4.1			11.83	B5/B14			
	140	12	3.9	12.48	B5/B14					140	12	3.9			12.48	B5/B14			
	118	14	3.3	14.83	B5/B14					118	14	3.3			14.83	B5/B14			
	99	16	2.8	17.63	B5/B14					99	16	2.8			17.63	B5/B14			
	94	17	3.2	18.60	B5/B14					94	17	3.2			18.60	B5/B14			
	78	21	2.7	22.33	B5/B14					78	21	2.7			22.33	B5/B14			
	73	22	2.5	23.91	B5/B14					73	22	2.5			23.91	B5/B14			
	61	27	2.4	28.89	B5/B14					61	27	2.4			28.89	B5/B14			
	57	28	2.3	30.84	B5/B14					57	28	2.3			30.84	B5/B14			
	52	31	2.1	33.57	B5/B14			52	31	2.1	33.57	B5/B14							
	49	33	2.0	35.63	B5/B14			49	33	2.0	35.63	B5/B14							
	41	39	1.6	42.75	B5/B14			41	39	1.6	42.75	B5/B14							
	32	51	1.3	55.31	B5/B14			32	51	1.3	55.31	B5/B14							
	30	55	1.2	59.06	B5/B14			30	55	1.2	59.06	B5/B14							
	27	59	1.1	64.29	B5/B14			27	59	1.1	64.29	B5/B14							
	24	67	1.0	72.50	B5/B14			24	67	1.0	72.50	B5/B14							
	57	28	4.4	30.84	CMB502	B5/B14		57	28	4.4	30.84	CMB633	B5/B14						
	52	31	4.0	33.57			B5/B14		52	31	4.0			33.57	B5/B14				
	49	33	3.8	35.63			B5/B14		49	33	3.8			35.63	B5/B14				
	41	39	3.2	42.75			B5/B14		41	39	3.2			42.75	B5/B14				
	32	51	2.4	55.31			B5/B14		32	51	2.4			55.31	B5/B14				
	30	55	2.3	59.06			B5/B14		30	55	2.3			59.06	B5/B14				
	27	59	2.1	64.29			B5/B14		27	59	2.1			64.29	B5/B14				
	24	67	1.9	72.50			B5/B14		24	67	1.9			72.50	B5/B14				
	30	53	4.7	57.93			CMB633	B5/B14		30	53			4.7	57.93	CMB502	B5/B14		
	28	57	4.4	61.63					B5/B14		28			57	4.4			61.63	B5/B14
	24	68	3.7	73.96					B5/B14		24			68	3.7			73.96	B5/B14
	22	73	3.4	78.58					B5/B14		22			73	3.4			78.58	B5/B14
	19	86	2.9	93.33	B5/B14				19	86	2.9	93.33	B5/B14						
	12	130	1.9	140.52	B5/B14				12	130	1.9	140.52	B5/B14						
	10	168	1.5	181.81	B5/B14				10	168	1.5	181.81	B5/B14						
	8.3	195	1.3	211.31	B5/B14				8.3	195	1.3	211.31	B5/B14						
	7.3	220	1.1	238.31	B5/B14				7.3	220	1.1	238.31	B5/B14						
	283	3.8	10.5	6.18	CMB402	B5/B14				283	3.8	10.5	6.18	CMB502	B5/B14				
	234	4.6	8.7	7.49			B5/B14		234	4.6	8.7	7.49	B5/B14						
63A4	190	5.7	7.1	9.20			B5/B14		63A4	190	5.7	7.1	9.20			B5/B14			
(1750 min ⁻¹)	148	7.3	6.2	11.83			B5/B14		(1750 min ⁻¹)	148	7.3	6.2	11.83			B5/B14			
	140	7.7	5.9	12.48			B5/B14			140	7.7	5.9	12.48			B5/B14			
	118	9.1	4.9	14.83			B5/B14			118	9.1	4.9	14.83			B5/B14			
	99	11	4.1	17.63			B5/B14			99	11	4.1	17.63			B5/B14			
	94	11	4.8	18.60			B5/B14			94	11	4.8	18.60			B5/B14			
	78	14	4.0	22.33			B5/B14			78	14	4.0	22.33			B5/B14			
	73	15	3.7	23.91			B5/B14			73	15	3.7	23.91			B5/B14			
	61	18	3.7	28.89			B5/B14			61	18	3.7	28.89			B5/B14			
	57	19	3.4	30.84			B5/B14			57	19	3.4	30.84			B5/B14			
	52	21	3.1	33.57	B5/B14			52	21	3.1	33.57	B5/B14							
	49	22	3.0	35.63	B5/B14			49	22	3.0	35.63	B5/B14							
	41	26	2.5	42.75	B5/B14			41	26	2.5	42.75	B5/B14							
	32	34	1.9	55.31	B5/B14			32	34	1.9	55.31	B5/B14							
	30	36	1.8	59.06	B5/B14			30	36	1.8	59.06	B5/B14							
	27	40	1.6	64.29	B5/B14			27	40	1.6	64.29	B5/B14							
	24	45	1.5	72.50	B5/B14			24	45	1.5	72.50	B5/B14							
	41	26	4.8	42.75	CMB502	B5/B14		41	26	4.8	42.75	CMB633	B5/B14						
	32	34	3.7	55.31			B5/B14		32	34	3.7			55.31	B5/B14				
	30	36	3.4	59.06			B5/B14		30	36	3.4			59.06	B5/B14				
	27	40	3.2	64.29			B5/B14		27	40	3.2			64.29	B5/B14				
	24	45	2.8	72.50			B5/B14		24	45	2.8			72.50	B5/B14				
	24	45	1.5	72.50			B5/B14		24	45	1.5			72.50	B5/B14				


Datos técnicos
Dados técnicos
Technical data

P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i			P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i						
0.25							0.37										
(0.33 hp)	283	7.9	5.1	6.18	CMB402	B5/B14	(0.50 hp)	283	12	3.4	6.18	CMB402	B5/B14				
	234	10	4.2	7.49			B5/B14	B5/B14	234	14	2.8			7.49	B5/B14		
63C4	190	12	3.4	9.20			B5/B14	B5/B14	71A4	190	17			2.3	9.20	B5/B14	
(1750 min ⁻¹)	148	15	3.0	11.83			B5/B14	B5/B14	(1750 min ⁻¹)	148	22			2.0	11.83	B5/B14	
	140	16	2.8	12.48			B5/B14	B5/B14		140	24			1.9	12.48	B5/B14	
	118	19	2.4	14.83			B5/B14	B5/B14		118	28			1.6	14.83	B5/B14	
	99	23	2.0	17.63			B5/B14	B5/B14		99	33			1.3	17.63	B5/B14	
	94	24	2.3	18.60			B5/B14	B5/B14		94	35			1.6	18.60	B5/B14	
	78	29	1.9	22.33			B5/B14	B5/B14		78	42			1.3	22.33	B5/B14	
	73	31	1.8	23.91			B5/B14	B5/B14		73	45			1.2	23.91	B5/B14	
	61	37	1.8	28.89			B5/B14	B5/B14		61	55			1.2	28.89	B5/B14	
	57	40	1.6	30.84			B5/B14	B5/B14		57	59			1.1	30.84	B5/B14	
	52	43	1.5	33.57			B5/B14	B5/B14		52	64			1.0	33.57	B5/B14	
	49	46	1.4	35.63			B5/B14	B5/B14		49	68			1.0	35.63	B5/B14	
	41	55	1.2	42.75	CMB502	B5/B14		283	12	6.0	6.18	CMB502	B5/B14				
	32	71	0.9	55.31			B5/B14	B5/B14		234	14			4.9	7.49	B5/B14	
	30	76	0.9	59.06			B5/B14	B5/B14		190	17			4.0	9.20	B5/B14	
	94	24	4.6	18.60			B5/B14	B5/B14		148	22			4.0	11.83	B5/B14	
	78	29	3.8	22.33			B5/B14	B5/B14		140	24			3.8	12.48	B5/B14	
	73	31	3.6	23.91			B5/B14	B5/B14		118	28			3.2	14.83	B5/B14	
	61	37	3.4	28.89			B5/B14	B5/B14		99	33			2.7	17.63	B5/B14	
	57	40	3.2	30.84			B5/B14	B5/B14		94	35			3.1	18.60	B5/B14	
	52	43	2.9	33.57			B5/B14	B5/B14		78	42			2.6	22.33	B5/B14	
	49	46	2.7	35.63			B5/B14	B5/B14		73	45			2.4	23.91	B5/B14	
	41	55	2.3	42.75			B5/B14	B5/B14		61	55			2.3	28.89	B5/B14	
	32	71	1.8	55.31			B5/B14	B5/B14		57	59			2.1	30.84	B5/B14	
	30	76	1.7	59.06			B5/B14	B5/B14		52	64			2.0	33.57	B5/B14	
	27	82	1.5	64.29			B5/B14	B5/B14		49	68			1.8	35.63	B5/B14	
	24	93	1.3	72.50	B5/B14	B5/B14		41	81	1.5	42.75	B5/B14					
	45	50	5.0	38.88	CMB633	B5/B14		32	105	1.2	55.31	CMB633	B5/B14				
	37	60	4.1	47.16			B5/B14	B5/B14		30	112			1.1	59.06	B5/B14	
	30	74	3.4	57.93			B5/B14	B5/B14		27	122			1.0	64.29	B5/B14	
	28	79	3.2	61.63			B5/B14	B5/B14		24	138			0.9	72.50	B5/B14	
	24	95	2.6	73.96			B5/B14	B5/B14		62	53			4.1	28.17	CMB903	B5
	22	101	2.5	78.58			B5/B14	B5/B14		52	64			3.4	33.81		
	19	120	2.1	93.33			B5/B14	B5/B14		49	68			3.2	35.92		
	12	180	1.4	140.52			B5/B14	B5/B14		45	74			3.4	38.88		
	10	233	1.1	181.81			B5/B14	B5/B14		37	90			2.8	47.16		
	8.3	271	0.9	211.31			B5/B14	B5/B14		30	110			2.3	57.93		
										28	117			2.1	61.63		
										24	140			1.8	73.96		
										22	149			1.7	78.58		
										19	177			1.4	93.33		
								12	267	0.9	140.52						
								30	109	4.6	57.52						
								26	126	4.0	66.17						
								21	158	3.2	83.20						
								16	205	2.4	108.09						
								13	251	2.0	132.23						
								12	281	1.8	147.92						
								10	317	1.6	167.09						
								9.2	363	1.4	191.06						
								7.9	421	1.2	221.88						
								6.7	499	1.0	262.96						



CMB

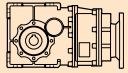
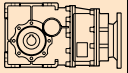
Motorreductores de ejes ortogonales
 Motoredutores com eixos ortogonais
 Helical bevel gearmotors

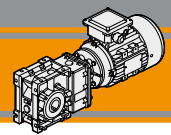
60 Hz

Datos técnicos

Dados técnicos

Technical data

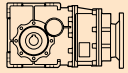

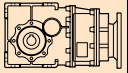

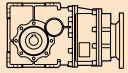

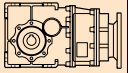


P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			
0.55						0.75							
(0.75 hp)	283	17	2.3	6.18	CMB402	B5/B14	(1.0 hp)	283	24	2.9	6.18	CMB502	B5/B14
	234	21	1.9	7.49		B5/B14		234	29	2.4	7.49		B5/B14
71B4	190	26	1.5	9.20		B5/B14	80A4	190	35	2.0	9.20		B5/B14
(1750 min ⁻¹)	148	33	1.3	11.83		B5/B14	(1750 min ⁻¹)	148	46	2.0	11.83		B5/B14
	140	35	1.3	12.48		B5/B14		140	48	1.9	12.48		B5/B14
	118	42	1.1	14.83		B5/B14		118	57	1.6	14.83		B5/B14
	99	50	0.9	17.63		B5/B14		99	68	1.3	17.63		B5/B14
	94	52	1.0	18.60		B5/B14		94	72	1.5	18.60		B5/B14
	78	63	0.9	22.33		B5/B14		78	86	1.3	22.33		B5/B14
	283	17	4.0	6.18		CMB502	B5/B14	73	92	1.2	23.91		B5/B14
	234	21	3.3	7.49			B5/B14	61	111	1.1	28.89		B5/B14
	190	26	2.7	9.20			B5/B14	57	119	1.1	30.84		B5/B14
	148	33	2.7	11.83			B5/B14	52	129	1.0	33.57		B5/B14
	140	35	2.6	12.48			B5/B14	49	137	0.9	35.63		B5/B14
	118	42	2.2	14.83			B5/B14						
	99	50	1.8	17.63	B5/B14		266	25	5.9	6.58	CMB633	B5/B14	
	94	52	2.1	18.60	B5/B14		219	31	4.9	7.99		B5/B14	
	78	63	1.7	22.33	B5/B14		178	38	4.0	9.81		B5/B14	
	73	67	1.6	23.91	B5/B14		168	40	3.7	10.44		B5/B14	
	61	81	1.5	28.89	B5/B14		140	48	3.1	12.53		B5/B14	
	57	87	1.4	30.84	B5/B14		131	51	2.9	13.31		B5/B14	
	52	95	1.3	33.57	B5/B14		111	61	2.8	15.81		B5/B14	
	49	101	1.2	35.63	B5/B14		98	68	3.2	17.77		B5/B14	
	41	121	1.0	42.75	B5/B14		81	83	2.7	21.56		B5/B14	
	168	29	5.1	10.44	CMB633	B5/B14	66	102	2.2	26.48		B5/B14	
	140	35	4.2	12.53		B5/B14	62	108	2.0	28.17		B5/B14	
	131	38	4.0	13.31		B5/B14	52	130	1.7	33.81		B5/B14	
	111	45	3.8	15.81		B5/B14	49	138	1.6	35.92		B5/B14	
	98	50	4.4	17.77		B5/B14	45	150	1.7	38.88		B5/B14	
	81	61	3.6	21.56		B5/B14	37	181	1.4	47.16		B5/B14	
	66	75	2.9	26.48		B5/B14	30	223	1.1	57.93	B5/B14		
	62	79	2.8	28.17		B5/B14	28	237	1.1	61.63	B5/B14		
	52	95	2.3	33.81		B5/B14	24	285	0.9	73.96	B5/B14		
	49	101	2.2	35.92		B5/B14							
	45	110	2.3	38.88		B5/B14	67	101	4.4	26.30	CMB903	B5/B14	
	37	133	1.9	47.16		B5/B14	58	116	3.9	30.25		B5/B14	
	30	163	1.5	57.93		B5/B14	45	151	3.3	39.26		B5/B14	
	28	174	1.4	61.63		B5/B14	37	182	2.8	47.25		B5/B14	
	24	209	1.2	73.96		B5/B14	30	221	2.3	57.52		B5/B14	
	22	222	1.1	78.58	B5/B14	26	255	2.0	66.17	B5/B14			
	19	263	0.9	93.33	B5/B14	21	320	1.6	83.20	B5/B14			
	58	85	5.3	30.25	CMB903	B5/B14	16	416	1.2	108.09		B5/B14	
	45	111	4.5	39.26		B5/B14	13	509	1.0	132.23		B5/B14	
	37	133	3.8	47.25		B5/B14	12	569	0.9	147.92		B5/B14	
	30	162	3.1	57.52		B5/B14							
	26	187	2.7	66.17		B5/B14							
	21	235	2.1	83.20		B5/B14							
	16	305	1.6	108.09		B5/B14							
	13	373	1.3	132.23		B5/B14							
	12	417	1.2	147.92		B5/B14							
	10	471	1.1	167.09		B5/B14							
	9.2	539	0.9	191.06		B5/B14							
1.1						1.1							
						CMB502	(1.5 hp)	283	35	2.0	6.18	B5/B14	
							234	42	1.7	7.49	B5/B14		
							190	52	1.3	9.20	B5/B14		
					148		67	1.3	11.83	B5/B14			
					140		70	1.3	12.48	B5/B14			
					118		84	1.1	14.83	B5/B14			
					99		99	0.9	17.63	B5/B14			
					94		105	1.0	18.60	B5/B14			
					78		126	0.9	22.33	B5/B14			
					80B4								
					(1750 min ⁻¹)								



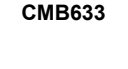




Datos técnicos

Dados técnicos

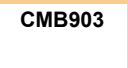

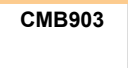

Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i									
1.1																				
(1.5 hp) 80B4 (1750 min ⁻¹)	266	37	4.0	6.58			(3.0 hp)	266	74	2.0	6.58									
	219	45	3.3	7.99			219	90	1.7	7.99										
	178	55	2.7	9.81			178	111	1.4	9.81										
	168	59	2.5	10.44			168	118	1.3	10.44										
	140	71	2.1	12.53			140	141	1.1	12.53										
	131	75	2.0	13.31			131	150	1.0	13.31										
	111	89	1.9	15.81			111	178	1.0	15.81										
	98	100	2.2	17.77			98	201	1.1	17.77										
	81	122	1.8	21.56			81	243	0.9	21.56										
	66	149	1.5	26.48					263	75	3.7			6.65	CMB903	B5/B14				
	62	159	1.4	28.17					219	90	3.1			8.00						
	52	191	1.2	33.81					180	110	2.5			9.74						
	49	203	1.1	35.92					156	126	2.2			11.21						
	45	219	1.1	38.88					124	159	1.9			14.09						
	37	266	0.9	47.16					98	203	2.2			17.95						
	263	38	7.5	6.65			CMB903		81	244	1.8			21.60						
	219	45	6.2	8.00					67	297	1.5			26.30						
	180	55	5.1	9.74					58	341	1.3			30.25						
	156	63	4.4	11.21					45	443	1.1			39.26						
	124	80	3.8	14.09					37	533	0.9			47.25						
	98	101	4.4	17.95													CMB903	B5/B14		
	81	122	3.7	21.60																
	67	148	3.0	26.30																
	58	171	2.6	30.25																
45	222	2.3	39.26																	
37	267	1.9	47.25																	
30	325	1.5	57.52																	
26	373	1.3	66.17																	
21	469	1.1	83.20																	

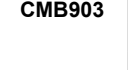

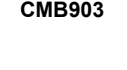

1.5

(2.0 hp) 90S4 (1750 min ⁻¹)	266	51	3.0	6.58			(4.0 hp)	263	102	2.7	6.65						
	219	61	2.4	7.99			219	123	2.3	8.00							
	178	76	2.0	9.81			180	150	1.9	9.74							
	168	80	1.9	10.44			156	172	1.6	11.21							
	140	96	1.6	12.53			124	217	1.4	14.09							
	131	102	1.5	13.31			98	276	1.6	17.95							
	111	122	1.4	15.81			81	332	1.4	21.60							
	98	137	1.6	17.77			67	405	1.1	26.30							
	81	166	1.3	21.56			58	466	1.0	30.25							
	66	204	1.1	26.48										CMB903	B5/B14		
	62	217	1.0	28.17													
	52	260	0.8	33.81													
	263	51	5.5	6.65			CMB903		(6.0 hp)	263	154					1.8	6.65
	219	62	4.5	8.00					219	185	1.5					8.00	
	180	75	3.7	9.74					180	225	1.2					9.74	
	156	86	3.2	11.21					156	259	1.1					11.21	
124	108	2.8	14.09	124	325	0.9			14.09								
98	138	3.3	17.95	98	414	1.1			17.95								
81	166	2.7	21.60	81	499	0.9			26.30								
67	202	2.2	26.30														
58	233	1.9	30.25														
45	302	1.7	39.26														
37	364	1.4	47.25														
30	443	1.1	57.52														
26	509	1.0	66.17														

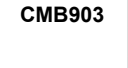

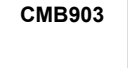

3.7

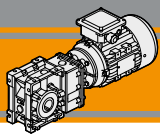
(5.0 hp) 112M4 (1750 min ⁻¹)	263	126	2.2	6.65			(5.0 hp)	263	126	2.2	6.65		
	219	152	1.8	8.00			219	152	1.8	8.00			
	180	185	1.5	9.74			180	185	1.5	9.74			
	156	213	1.3	11.21			156	213	1.3	11.21			
	124	267	1.1	14.09			124	267	1.1	14.09			
	98	341	1.3	17.95			98	341	1.3	17.95			
	81	410	1.1	21.60			81	410	1.1	21.60			
	67	499	0.9	26.30			67	499	0.9	26.30			

4.5

(6.0 hp) 112MA4 (1750 min ⁻¹)	263	154	1.8	6.65			(6.0 hp)	263	154	1.8	6.65		
	219	185	1.5	8.00			219	185	1.5	8.00			
	180	225	1.2	9.74			180	225	1.2	9.74			
	156	259	1.1	11.21			156	259	1.1	11.21			
	124	325	0.9	14.09			124	325	0.9	14.09			
	98	414	1.1	17.95			98	414	1.1	17.95			
	81	499	0.9	21.60			81	499	0.9	21.60			

5.5

(7.5 hp) 112MB4 (1750 min ⁻¹)	263	188	1.5	6.65			(7.5 hp)	263	188	1.5	6.65		
	219	226	1.2	8.00			219	226	1.2	8.00			
	180	275	1.0	9.74			180	275	1.0	9.74			
	156	316	0.9	11.21			156	316	0.9	11.21			
	98	506	0.9	17.95			98	506	0.9	17.95			



CMB

Motorreductores de ejes ortogonales
 Motores com eixos ortogonais
 Helical bevel gearmotors

60 Hz

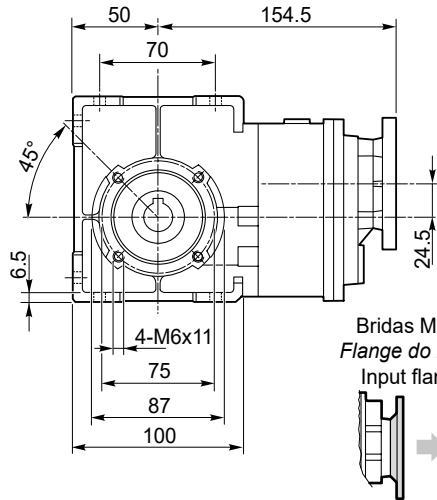
Dimensiones

Dimensões

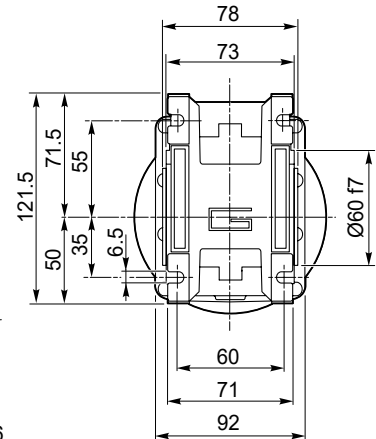
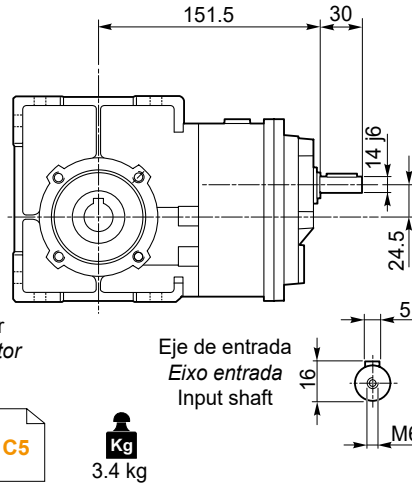
Dimensions

CMB 402.. - CMBIS 402..

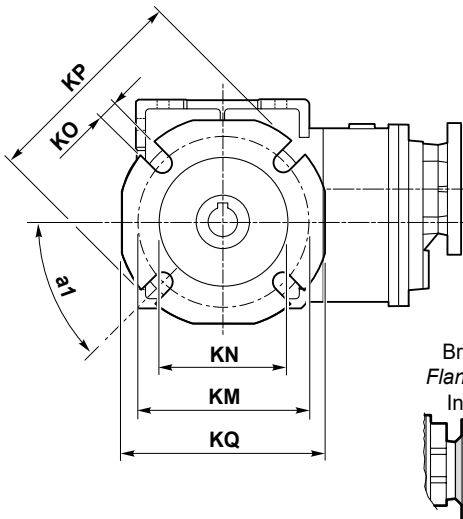
CMB 402 U..



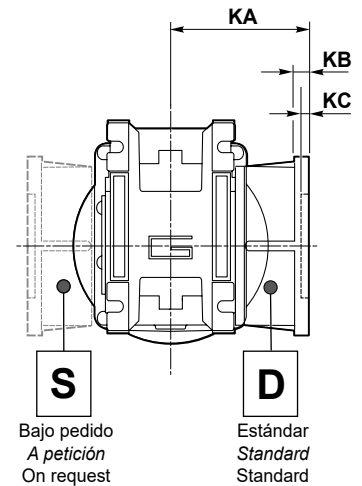
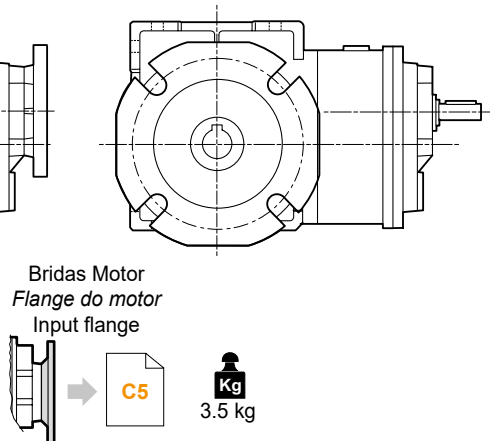
CMBIS 402 U..



CMB 402 F..



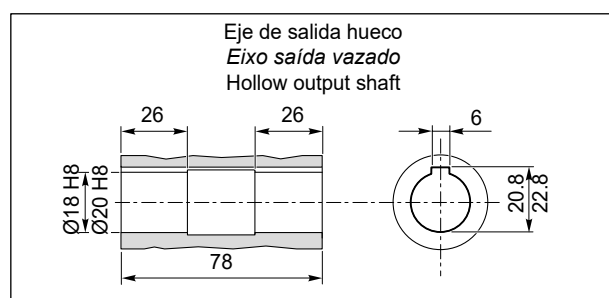
CMBIS 402 F..

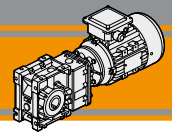


Versión F / Versão F / F Version

CMB CMBIS	a ₁	KA	KB	KC	KM	KN H8	KO	KP	KQ	Brida / Flange / Flange Tipo / Tipo / Type
402	45°	67	7.5	4.5	80-95	60	9	110	95	F
	45°	97	7.5	4.5	80-95	60	9	110	95	FL
	45°	80	8.5	5	115-125	95	9.5	140	112	FB

CMB 402.. D.. - CMBIS 402.. D..





Dimensiones

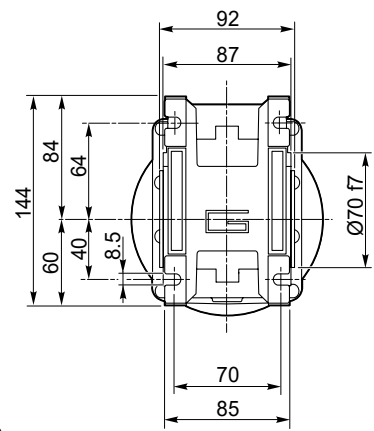
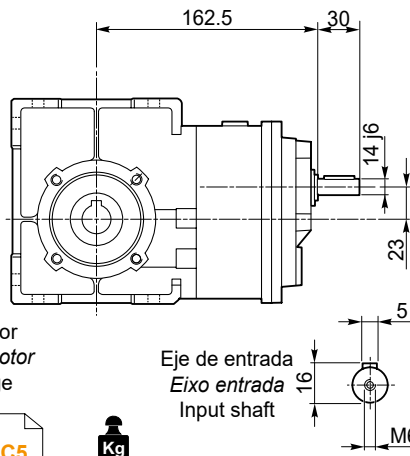
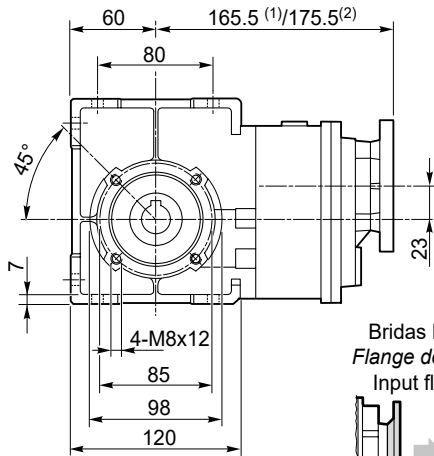
Dimensões

Dimensions

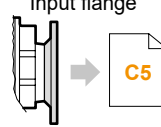
CMB 502.. - CMBIS 502..

CMB 502 U..

CMBIS 502 U..



Bridas Motor
 Flange do motor
 Input flange



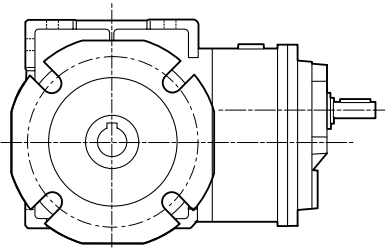
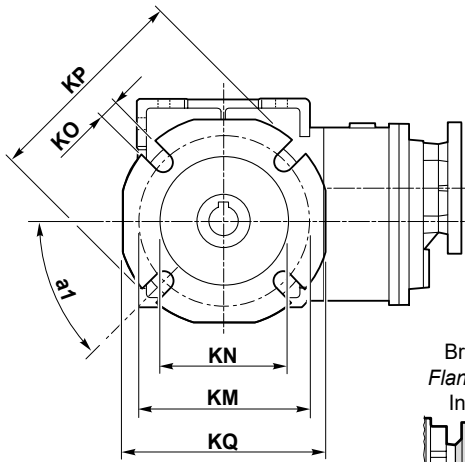
Eje de entrada
 Eixo entrada
 Input shaft



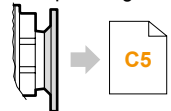
(1) IEC 56/63/71
 (2) IEC 80

CMB 502 F..

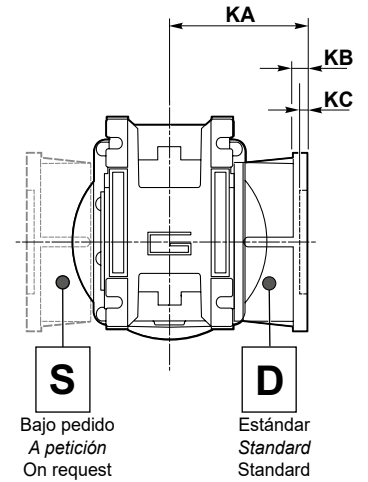
CMBIS 502 F..



Bridas Motor
 Flange do motor
 Input flange



4.8 kg

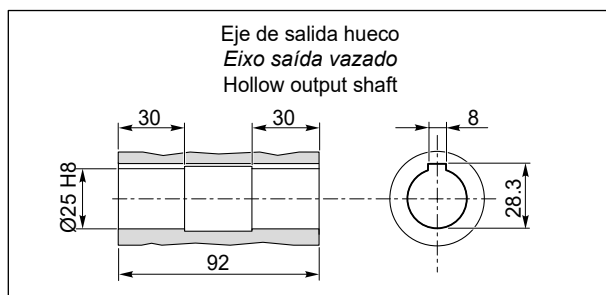


S
 Bajo pedido
 A petición
 On request

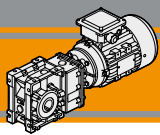
D
 Estándar
 Standard
 Standard

Versión F / Versão F / F Version										
CMB CMBIS	a ₁	KA	KB	KC	KM	KN H8	KO	KP	KQ	Brida / Flange / Flange Tipo / Tipo / Type
502	45°	90	9	5	90-110	70	11	125	110	F
	45°	120	9	5	90-110	70	11	125	110	FL
	45°	89	9	5	130-145	110	9.5	160	132	FB

CMB 502.. D.. - CMBIS 502.. D..



Eje de salida hueco
 Eixo saída vazado
 Hollow output shaft



CMB

Motorreductores de ejes ortogonales
 Motores com eixos ortogonais
 Helical bevel gearmotors

60 Hz

Dimensiones

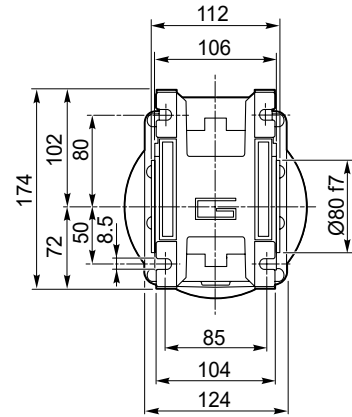
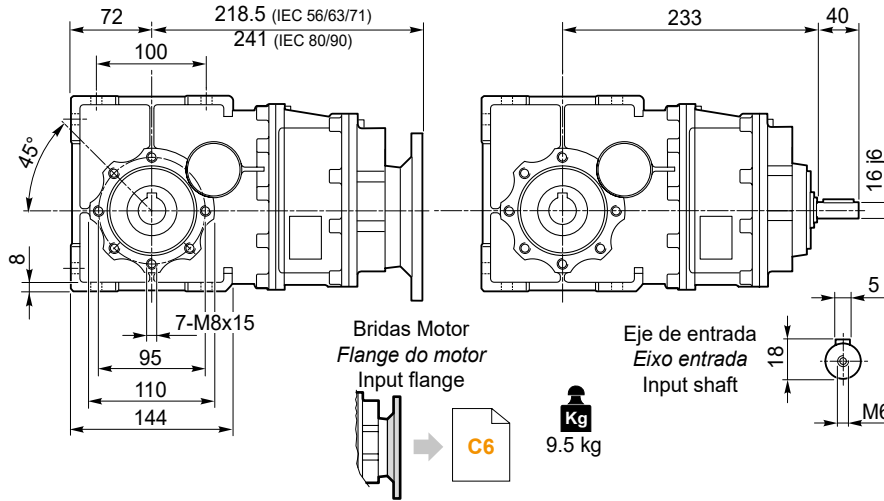
Dimensões

Dimensions

CMB 633.. - CMBIS 633..

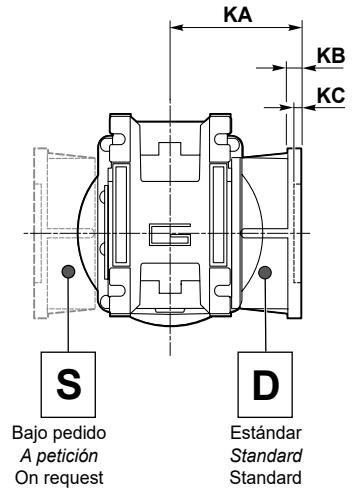
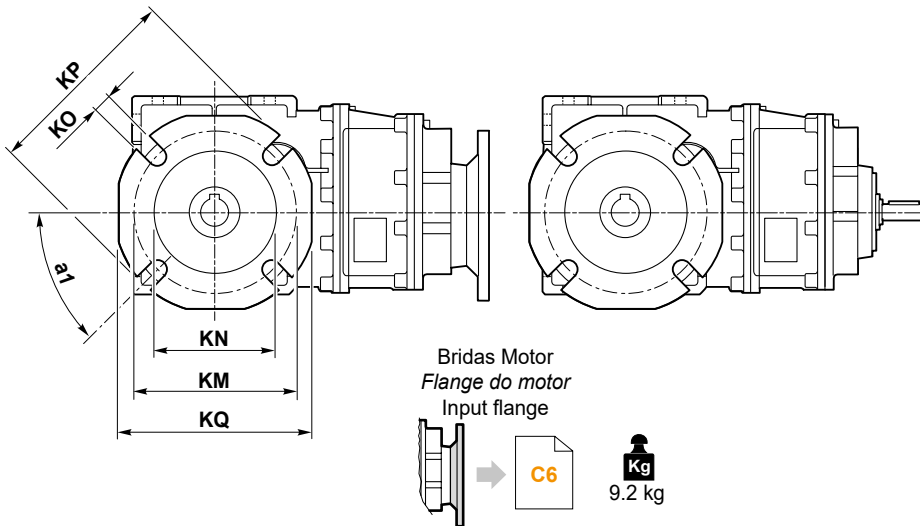
CMB 633 U..

CMBIS 633 U..



CMB 633 F..

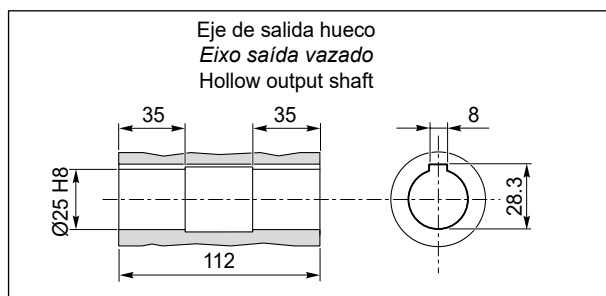
CMBIS 633 F..

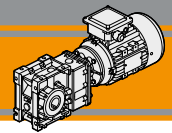


Versión F / Versão F / F Version

CMB CMBIS	a ₁	KA	KB	KC	KM	KN H8	KO	KP	KQ	Brida / Flange / Flange Tipo / Tipo / Type
633	45°	82	10	6	150-160	115	11	180	142	F
	45°	112	10	8	150-160	115	11	180	142	FL
	45°	98	11	5	165	130	11	200	160	FB

CMB 633.. D.. - CMBIS 633.. D..





Dimensiones

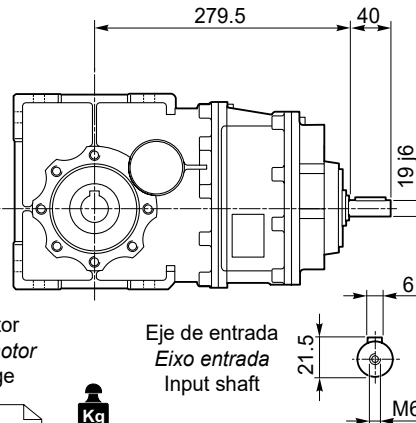
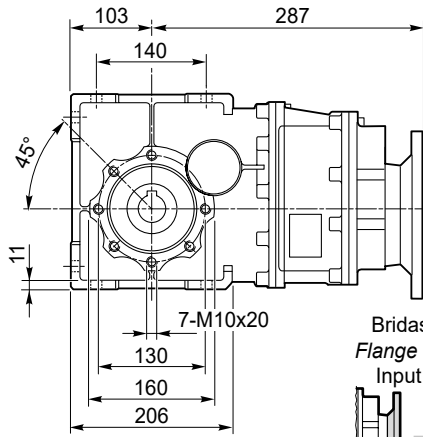
Dimensões

Dimensions

CMB 903.. - CMBIS 903..

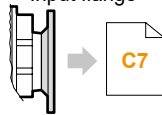
CMB 903 U..

CMBIS 903 U..

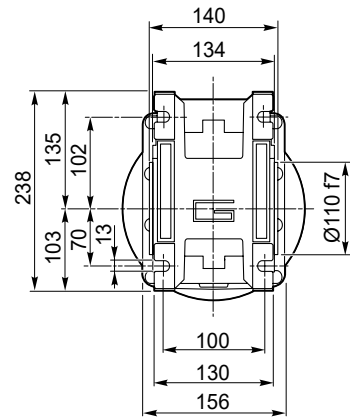


Bridas Motor
 Flange do motor
 Input flange

Eje de entrada
 Eixo entrada
 Input shaft

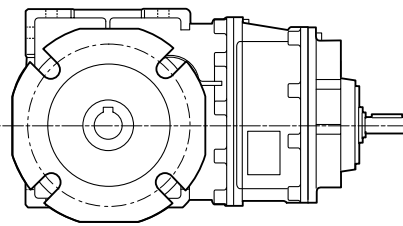
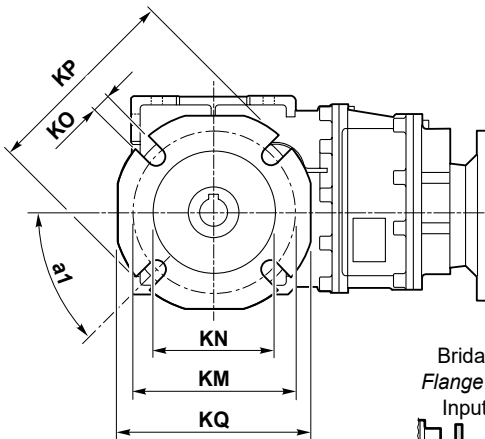


C7
 18.4 kg

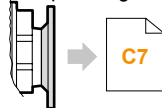


CMB 903 F..

CMBIS 903 F..



Bridas Motor
 Flange do motor
 Input flange



C7
 18.1 kg

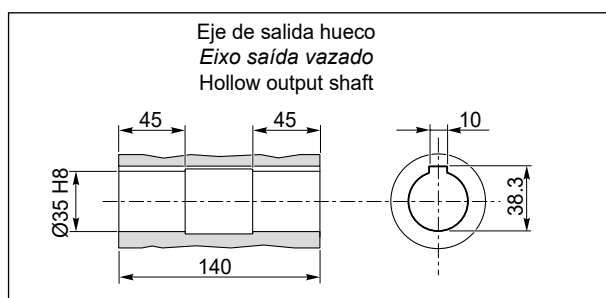
S
 Bajo pedido
 A petición
 On request

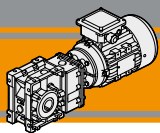
D
 Estándar
 Standard
 Standard

Versión F / Versão F / F Version

CMB CMBIS	a ₁	KA	KB	KC	KM	KN H8	KO	KP	KQ	Brida / Flange / Flange Tipo / Tipo / Type
903	45°	111	13	6	175-188	152	14	210	200	F

CMB 903.. D.. - CMBIS 903.. D..

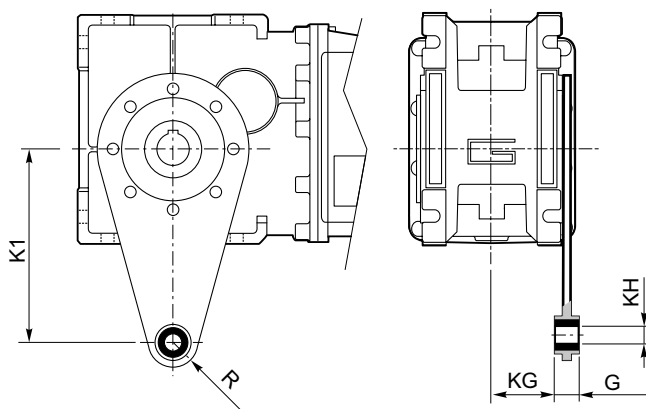
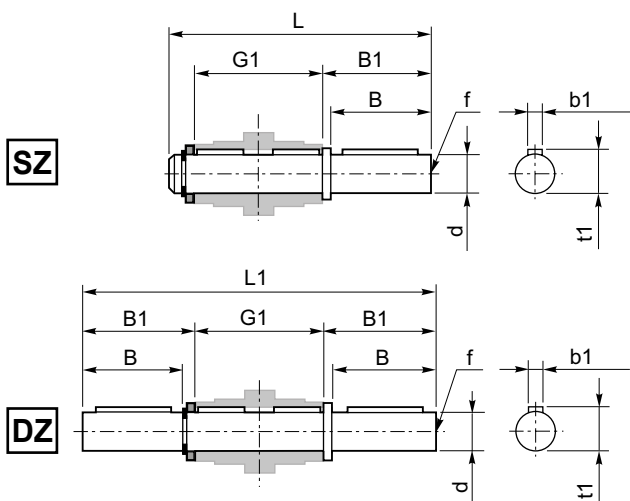




Accesorios

Acessórios

Accessories



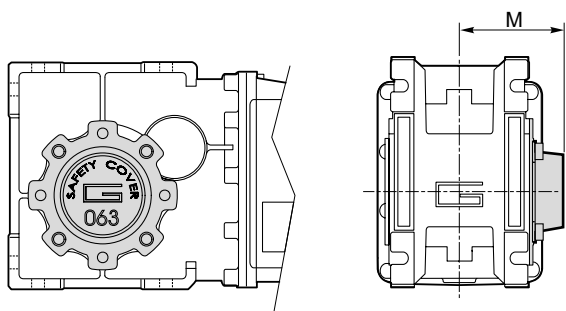
Eje de salida / Eixo saída / Output shaft

Brazo de reacción / Braço de reação / Torque arm

CMB CMBIS	d h7	B	B1	G1	L	L1	f	b1	t1
402	18	40	43	78	128	164	M6	6	20.5
502	25	50	53.5	92	153	199	M10	8	28
633	25	50	53.5	112	173	219	M10	8	28
903	35	80	84.5	140	234	309	M12	10	38

CMB CMBIS	K1	G	KG	KH	R
402	100	14	31	10	18
502	100	14	38	10	18
633	150	14	47.5	10	18
903	200	25	56.5	20	30

SC - Cubierta de seguridad / Tampa de proteção / Safety cover



CMB CMBIS	M
402	54.5
502	62.5
633	73
903	94

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