

CM

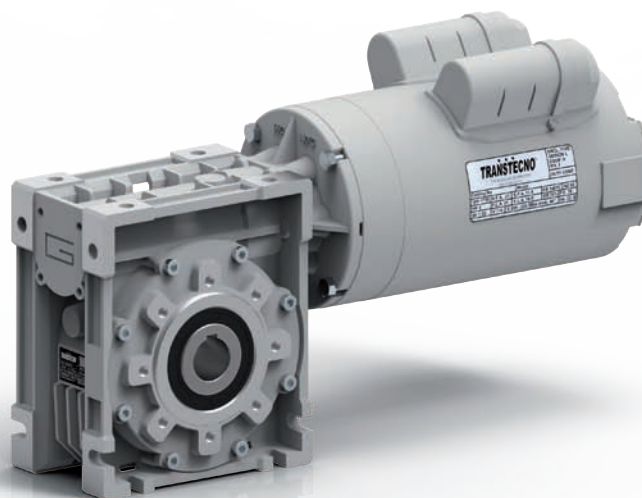
CM



NEMA DIMENSIONS

Червячные мотор-редукторы

Руководство по эксплуатации



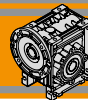
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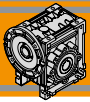
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Características técnicas

Technical features

El elevado nivel de modularidad caracteriza a los reductores sinfin corona de la serie CM; los diversos kit de entrada y salida permiten una versatilidad extrema del reductor. Los reductores de la serie CM poseen las características siguientes:

The high degree of modularity is a design feature of CM wormgearboxes range thanks to a wide selection of input and output kits. Main features of CM range are:

- Los tamaños 040, 050, 063, 075, 090 y 110 están contruidos con carcasa de aluminio. El tamaño 130 en hierro fundido;
- Los tamaños 090, 110 y 130 se suministran con rodamientos de rodillos cónicos en el sinfin;
- Die-cast aluminum housing on sizes 040, 050, 063, 075, 090 and 110. Cast iron housing on size 130;
- Double taper roller bearing on sizes 090, 110 and 130;

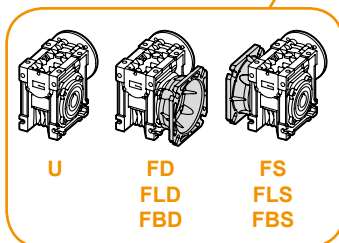
Clasificación

Classification

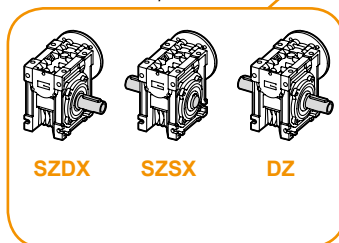
REDUCTORES SINFIN CORONA / WORMGEARBOXES

REDUCTOR / GEARBOX								
CM	050	U	10	56C	SZDX	BRSX	90°	M1
Tipo Type	Tamaño Size	Versión de reductor Gearbox Version	Relación de reducción Ratio		Eje de salida Output shaft	Brazo de reacción Torque arm	Ángulo Angle	Posición de montaje Mounting position
CM 	040 050 063 075 090 110 130	U FD FS FBD FBS FLD FLS	véase tablas see tables	56C 140TC 180TC 210TC	SZDX SZSX DZ	BRSX BRDX	0° 90° 180° 270°	M1 (B3) M2 (V6) M3 (B8) M4 (V5) M5 (B7) M6 (B6)
CMIS 								

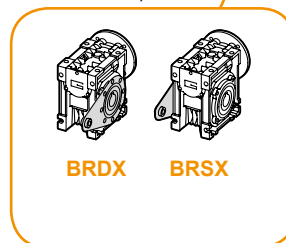
Relación de reducción
Gearbox Version



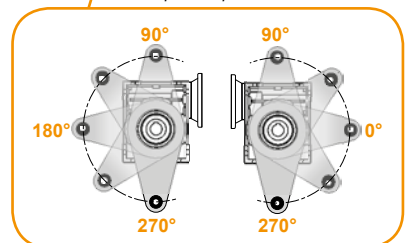
Eje de salida
Output shaft



Brazo de reacción
Torque arm



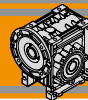
Posición del Brazo
Torque arm position



F.....D = Lado derecho / Right side
FL = Brida larga / Long flange
F.....S = Lado izquierdo / Left side
FB = Brida corta / Short flange

SZDX = Flecha sencilla lado derecho
Single shaft right side
DZ = Flecha doble / Double shaft
SZSX = Flecha sencilla lado izquierdo
Single shaft left side

BRDX = Lado derecho / Right side
BRSX = Lado izquierdo / Left side



Clasificación

Classification

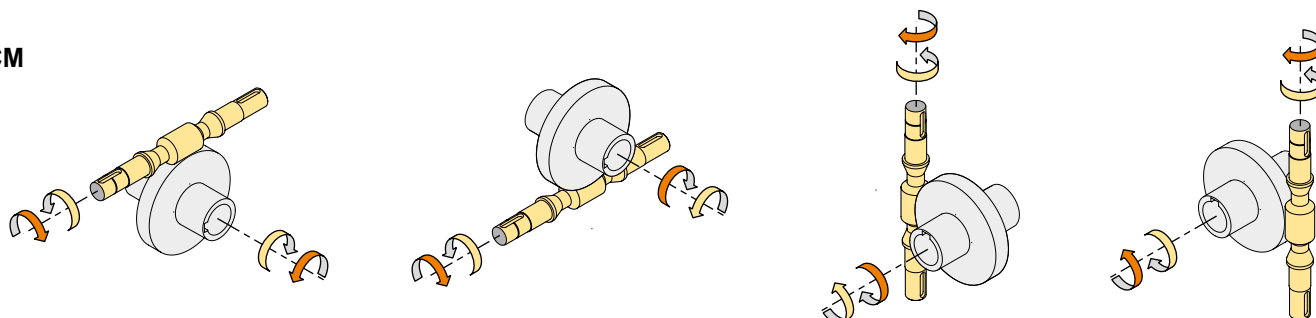
MOTOR / MOTOR					
1 hp / 0.75kW	4p	3ph	220/440V	60Hz	T1
Potencia Power	Polos Poles	Fases Phases	Tensión Voltage	Frecuencia Frequency	Posición caja de bornes Terminal box pos.
véase tablas See tables	2p 4p 6p 8p	1ph 3ph	230V 230/400V ... 220/440V	50Hz 60Hz	T1 (Std) T4 T3



Sentidos de rotación

Direction of rotation

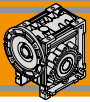
CM



Nomenclatura

Legend

n_1 [rpm]	Velocidad de entrada / <i>Input speed</i>	sf	Rendimiento dinámico / <i>Service factor</i>
n_2 [rpm]	Velocidad de salida / <i>Output speed</i>	Rd %	Rendimiento dinámico / <i>Dynamic efficiency</i>
i	Relación de reducción / <i>Ratio</i>	Rs %	Rendimiento estático / <i>Static efficiency</i>
P_1 [kW]	Potencia nominal en la entrada / <i>Nominal input power</i>	R_2 [N]	Carga radial admisible en la salida / <i>Maximum output radial load</i>
M_2 [Nm]	Par en la salida en función de P_1 / <i>Output torque referred to P_1</i>	A_2 [N]	Carga axial admisible en la salida / <i>Maximum output axial load</i>
P_{n1} [kW]	Potencia nominal en la entrada / <i>Nominal input power</i>	Z	Número de entradas del tornillo / <i>Worm starts</i>
M_{n2} [Nm]	Par nominal en la salida en función de P_{n1} / <i>Nominal output torque referred to P_{n1}</i>	β	Ángulo de helicoidal / <i>Helix angle</i>

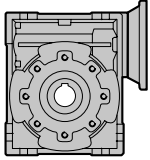


Lubricación

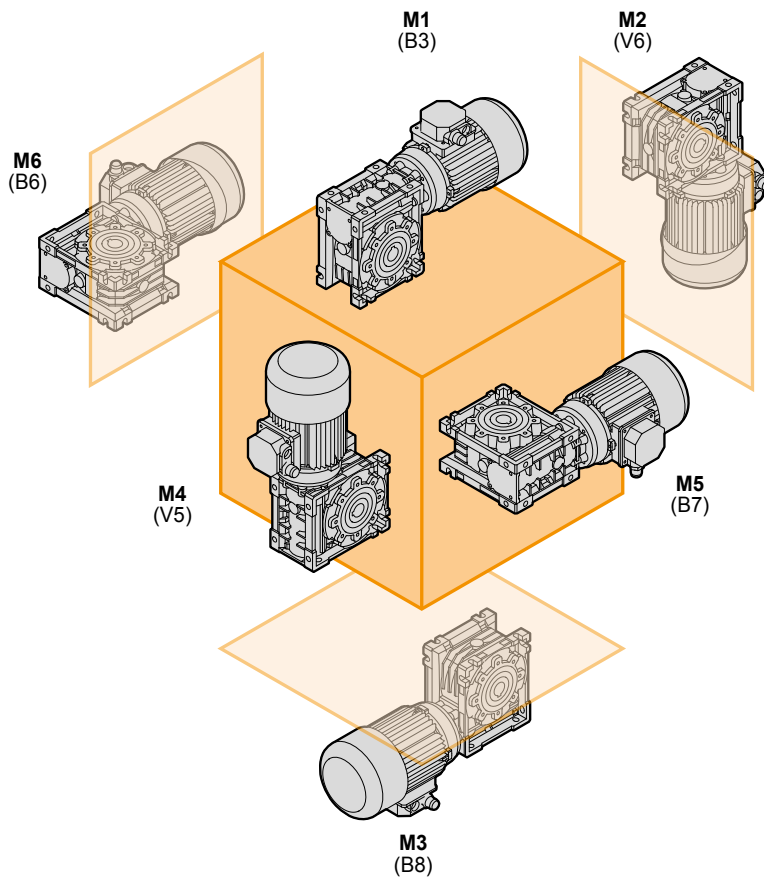
Lubrication

Lubricación permanente de aceite sintético de larga vida (grado de viscosidad 320) que hace posible utilizar los reductores en todas las posiciones de montaje, así mismo no requieren de mantenimiento eliminando el cambio de aceite.

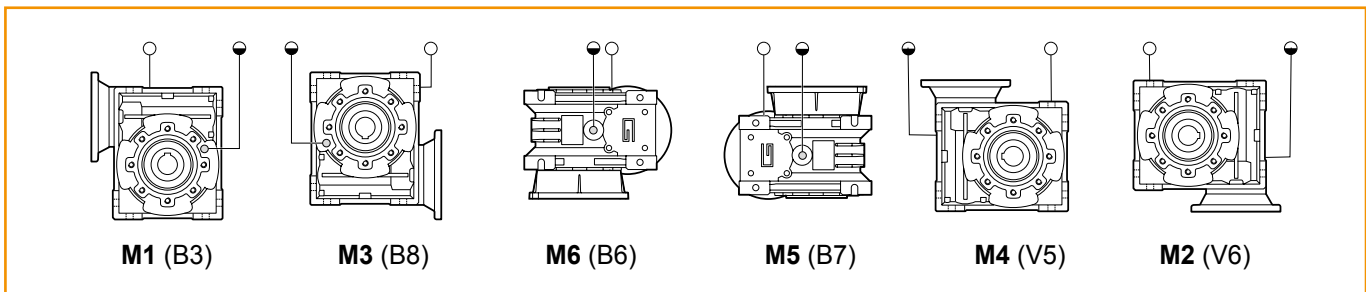
Permanent synthetic oil long-life lubrication (viscosity grade 320) makes it possible to use the gearboxes in all mounting positions; for this reason they can be installed in any assembly position and do not require maintenance.



CM	Cantidad de aceite (US gal) / Oil quantity (US gal)					
	M1 (B3)	M3 (B8)	M6 (B6)	M5 (B7)	M4 (V5)	M2 (V6)
130	1.19	0.87	0.92	0.92	1.19	0.87



CM 130



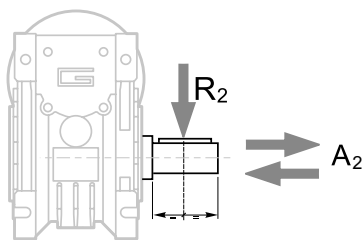
(Estándar)
(standard)

○ Respiradero y tapón de llenado / Breather and filling plug
● Tapón de nivel de aceite / Oil level plug



Cargas radiales

Radial loads

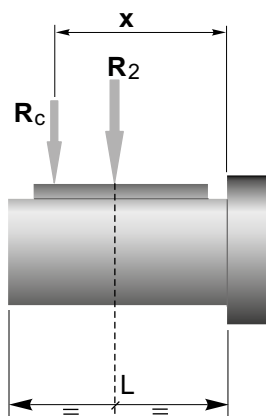


$$A_2 = R_2 \times 0.2$$

n ₂ [rpm]	R ₂ [lb]						
	CM040	CM050	CM063	CM075	CM090	CM110	CM130
187	284	398	550	635	711	1137	1289
140	313	438	605	699	783	1252	1419
93	359	502	694	801	897	1435	1626
70	394	552	763	881	986	1578	1788
56	425	595	821	949	1062	1699	1926
47	450	631	871	1006	1126	1802	2042
35	497	696	961	1110	1242	1988	2253
28	535	749	1035	1195	1338	2141	2427
23	572	800	1105	1277	1429	2286	2591
18	620	868	1199	1385	1551	2481	2812
14	674	944	1304	1506	1686	2698	3057

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

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

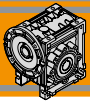


	CM						
	040	050	063	075	090	110	130
a	84	101	120	131	182	176	188
b	64	76	95	101	122	136	148
R _{2MAX}	674	944	1304	1506	1686	2698	3057

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

$$R \leq R_c$$

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



Reversibilidad e irreversibilidad

La reversibilidad en los motorreductores sinfín y corona es consecuencia directa de la eficiencia (estática y dinámica). Esto determina si la flecha de entrada puede o no ser rotada por la aplicación de un cierto torque en la flecha de salida.

El grado de reversibilidad (o irreversibilidad) de un reductor está determinado por la dificultad de poder o no poder rotarlo. Esta significativa característica de los reductores sinfín y corona es afectada por numerosos factores incluyendo el ángulo de diseño de los engranes (así como la relación de reducción), lubricación, temperatura, el maquinado de la superficie del sinfín, vibraciones, etc.

En aplicaciones de traslación, una alta reversibilidad debe ser garantizada en el reductor para evitar inercias de las partes en movimiento o picos de carga inaceptables para los engranes.

En las aplicaciones que requieren un "no-retorno" de la carga (ej. Elevadores o bandas transportadoras inclinadas) un reductor con alta irreversibilidad debe ser seleccionado cuando no se cuenta con un motor con freno.

Sin embargo debemos mencionar que el no retorno de la carga debe ser totalmente garantizado solamente instalando un motor auto frenante (u otro dispositivo externo).

La siguiente tabla se proporciona únicamente con fines de referencia. En esta se muestran los distintos grados de reversibilidad e irreversibilidad de los reductores sinfín y corona en relación a su eficiencia dinámica Rd y estática Rs.

Reversibility and irreversibility

Reversibility of the wormgearbox is the direct consequence of efficiency (static and dynamic). This determines whether or not the input shaft can be rotated by applying a certain torque on the output shaft.

Whether or not this can be done and how difficult it actually is to determine the degree of reversibility (or irreversibility) of a gearbox. This feature, quite significant in wormgearboxes, is affected by numerous factors including the helix angle (therefore drive ratio), lubrication, temperature, surface finish of the worm, vibrations, etc...

In applications that include translations, high reversibility must be guaranteed to prevent inertia of the moving parts from creating unacceptable load peaks on the drive parts.

In applications that require non-return of the load (e.g. lifting or inclined conveyor belts) a gearbox with high irreversibility must be chosen when a motor-brake unit is not present.

However, we would like to point out that non-return can be totally assured only by installing a self-braking motor or other external braking device.

The table below is provided for reference purposes only. It contains the various degrees of reversibility/irreversibility of wormgearboxes in relation to dynamic Rd and static Rs efficiency.

Rd	Reversibilidad e irreversibilidad dinámica	Dynamic reversibility and irreversibility
> 0.6	Reversibilidad dinámica	Dynamic reversibility
0.5 - 0.6	Reversibilidad dinámica incierta	Uncertain dynamic reversibility
0.4 - 0.5	Irreversibilidad dinámica efectiva	Good dynamic irreversibility
<0.4	Irreversibilidad dinámica	Dynamic irreversibility
Rs	Reversibilidad e irreversibilidad estática	Static reversibility and irreversibility
> 0.55	Irreversibilidad estática	Static reversibility
0.5 - 0.55	Opción A: Reversibilidad estática incierta	Uncertain static reversibility
<0.5	Irreversibilidad estática	Static irreversibility



Datos de dentado

Toothing data

	Datos del engranaje sinfin corona Worm wheel data	Relación de reducción / Ratio											
		5	7.5	10	15	20	25	30	40	50	60	80	100
CM040	Z	6	4	3	2	2	2	1	1	1	1	1	1
	β	34° 19'	24° 28'	18° 50'	12° 49'	10° 23'	8° 43'	6° 29'	5° 14'	4° 23'	3° 46'	2° 57'	2° 25'
CM050	Z		4	3	2	2	2	1	1	1	1	1	1
	β		23° 54'	18° 23'	12° 29'	10° 6'	8° 28'	6° 19'	5° 5'	4° 15'	3° 39'	2° 51'	2° 20'
CM063	Z		4	3	2	2	2	1	1	1	1	1	1
	β		24° 31'	18° 53'	12° 50'	10° 24'	8° 44'	6° 30'	5° 14'	4° 23'	3° 47'	2° 57'	2° 25'
CM075	Z		4	3	2	2	2	1	1	1	1	1	1
	β		26° 17'	20° 20'	13° 52'	11° 18'	9° 32'	7° 2'	5° 42'	4° 48'	4° 8'	3° 14'	2° 40'
CM090	Z		4	3	2	2	2	1	1	1	1	1	1
	β		29° 11'	22° 43'	15° 36'	12° 50'	10° 53'	7° 56'	6° 30'	5° 29'	4° 45'	3° 45'	3° 6'
CM110	Z		4	3	2	2	2	1	1	1	1	1	1
	β		28° 14'	21° 56'	15° 1'	14° 41'	12° 34'	7° 38'	7° 28'	6° 21'	5° 32'	4° 24'	3° 39'
CM130	Z		4	3	2	2	2	1	1	1	1	1	1
	β		28° 43'	22° 20'	15° 19'	13° 47'	11° 54'	7° 48'	7° 00'	6° 01'	5° 16'	4° 08'	3° 27'

CM

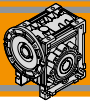
Rendimiento

Efficiency

	n ₁ [rpm]	Rendimiento Efficiency	Relación de reducción / Ratio											
			5	7.5	10	15	20	25	30	40	50	60	80	100
CM040	1750	Rd	88	86	84	81	78	74	70	65	60	58	52	46
	1150		86	84	82	77	74	70	66	60	57	53	46	41
		Rs	74	71	67	60	55	51	45	40	36	32	28	24
CM050	1750	Rd	89	87	85	82	79	76	72	67	63	60	54	49
	1150		87	85	84	79	75	72	68	62	59	55	48	43
		Rs	73	70	66	59	55	51	44	39	35	32	27	23
CM063	1750	Rd	90	88	86	84	81	78	75	70	66	63	57	52
	1150		89	86	84	81	78	75	70	65	61	58	52	47
		Rs	73	71	67	60	55	51	45	40	36	33	28	24
CM075	1750	Rd		89	87	84	83	80	77	73	69	66	60	56
	1150			87	85	83	80	77	73	68	64	61	55	50
		Rs		73	69	62	59	55	48	43	39	36	31	27
CM090	1750	Rd		90	88	86	84	83	79	76	72	69	64	60
	1150			88	87	84	82	80	76	72	68	65	60	55
		Rs		74	71	65	61	59	51	46	42	39	34	30
CM110	1750	Rd		89	88	86	85	84	80	79	76	73	68	64
	1150			88	87	84	83	82	78	75	71	68	63	59
		Rs		74	71	64	64	60	50	49	46	42	37	33
CM130	1750	Rd		89	88	86	84	83	79	76	75	73	69	64
	1150			88	87	84	82	81	77	74	73	70	64	59
		Rs		74	71	64	64	60	50	49	46	42	37	33

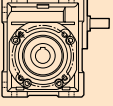
Rendimiento teórico del reductor después del rodaje
Theoretical efficiency of the gearbox after the first running period





Datos técnicos

Technical data

	i	n ₁ = 1750 rpm				n ₁ = 1150 rpm			
		n ₂ [rpm]	Mn ₂ [lb·in]	Pn ₁ [hp]	NEMA Motores aplicables NEMA Motor adapters 56 C	n ₂ [rpm]	Mn ₂ [lb·in]	Pn ₁ [hp]	NEMA Motores aplicables NEMA Motor adapters 56 C

CMIS 40

5	350	363	2.29		230	416	1.76	
7.5	233	389	1.68		153	451	1.31	
10	175	398	1.32		115	460	1.02	
15	117	398	0.91		77	478	0.75	
20	88	354	0.63		58	398	0.49	
25	70	336	0.50		46	389	0.41	
30	58	425	0.56		38	496	0.46	
40	44	372	0.40		29	425	0.32	
50	35	345	0.32		23	407	0.26	
60	29	319	0.25		19	381	0.22	
80	22	292	0.19		14	354	0.18	
100	18	274	0.17		12	319	0.14	

CMIS 50

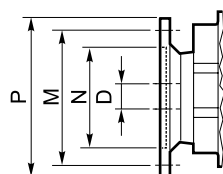
5	350	664	4.14		230	779	3.26	
7.5	233	699	2.97		153	814	2.33	
10	175	726	2.37		115	832	1.81	
15	117	726	1.64		77	841	1.29	
20	88	637	1.12		58	708	0.86	
25	70	620	0.90		46	664	0.67	
30	58	779	1.00		38	876	0.78	
40	44	673	0.70		29	752	0.55	
50	35	637	0.56		23	717	0.44	
60	29	611	0.47		19	673	0.37	
80	22	531	0.34		14	611	0.29	
100	18	496	0.28		12	566	0.24	

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

NOTE Highlighted áreas indicate the motor input flange available on each gearbox size.

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

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

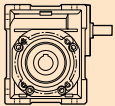


Dimensiones NEMA/ NEMA Dimensions	
	56 C
N	4.5
M	5.88
P	6.5
D	0.625



Datos técnicos

Technical data

	i	n ₁ = 1750 rpm						n ₁ = 1150 rpm					
		n ₂ [rpm]	Mn ₂ [lb·in]	Pn ₁ [hp]	NEMA Motores aplicables NEMA Motor adapters			n ₂ [rpm]	Mn ₂ [lb·in]	Pn ₁ [hp]	NEMA Motores aplicables NEMA Motor adapters		
					56 C	140 TC	180 TC				56 C	140 TC	180 TC
CMIS 63													
	5	350	1186	7.31	B			230	1434	5.87	B		
	7.5	233	1274	5.36	B			153	1496	4.23	B		
	10	175	1310	4.23	B			115	1558	3.38	B		
	15	117	1363	3.00	B			77	1575	2.36	B		
	20	88	1204	2.06	B			58	1363	1.59	B		
	25	70	1195	1.70	B			46	1221	1.19	B		
	30	58	1469	1.81	B			38	1646	1.43	B		
	40	44	1257	1.25	B			29	1416	0.99	B		
	50	35	1204	1.01	B			23	1328	0.79	B		
	60	29	1115	0.82				19	1257	0.66			
	80	22	1044	0.64				14	1133	0.50			
	100	18	1027	0.55				12	1080	0.42			

CMIS 75													
	7.5	233	2106	8.76	BS	B		153	2513	7.02	BS	B	
	10	175	2274	7.25	BS	B		115	2664	5.71	BS	B	
	15	117	2354	5.18	BS	B		77	2779	4.07	BS	B	
	20	88	2142	3.58	BS	B		58	2443	2.82	BS	B	
	25	70	1991	2.76	BS	B		46	2159	2.05	BS	B	
	30	58	2531	3.04	BS	B		38	2929	2.44	BS	B	
	40	44	2221	2.11	B			29	2540	1.70	B		
	50	35	2009	1.62	B			23	2301	1.31	B		
	60	29	1929	1.35	B			19	2221	1.13	B		
	80	22	1708	0.99	B			14	1982	0.82	B		
	100	18	1620	0.80				12	1814	0.66			

NOTA

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

B/BS = Casquillo de reducción en acero.



* = Pn₁ es la potencia mecánica. La potencia aplicable resulta reducida por el factor térmico. Para más detalles consultar con nuestro servicio técnico

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

NOTE

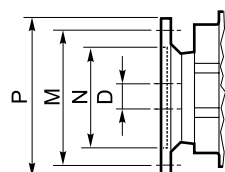
Highlighted áreas indicate the motor input flange available on each gearbox size.

B/BS = Metal shaft sleeve.

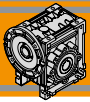


* = The service factor (sf) has to be selected depending on application: please contact our Technical Department.

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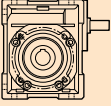


Dimensiones NEMA/ NEMA Dimensions			
	56 C	140 TC	180 TC
N	4.5		8.5
M	5.88		7.25
P	6.5		9
D	0.625	0.875	1.125



Datos técnicos

Technical data

	i	n ₁ = 1750 rpm							n ₁ = 1150 rpm						
		n ₂ [rpm]	Mn ₂ [lb·in]	Pn ₁ [hp]	NEMA Motores aplicables NEMA Motor adapters				n ₂ [rpm]	Mn ₂ [lb·in]	Pn ₁ [hp]	NEMA Motores aplicables NEMA Motor adapters			
					56 C	140 TC	180 TC	210 TC				56 C	140 TC	180 TC	210 TC

CMIS 90

7.5	233	3027	12.44	BS	B			153	3682	10.17	BS	B		
10	175	3363	10.60	BS	B			115	3974	8.33	BS	B		
15	117	3832	8.24	BS	B			77	4549	6.58	BS	B		
20	88	3664	6.05	BS	B			58	4204	4.67	BS	B		
25	70	3266	4.37	BS	B			46	3726	3.40	BS	B		
30	58	4363	5.11	BS	B			38	5045	4.03	BS	B		
40	44	3841	3.51	BS	B			29	4407	2.83	BS	B		
50	35	3407	2.63	BS	B			23	3929	2.11	BS	B		
60	29	3115	2.09	B				19	3655	1.74	B			
80	22	2867	1.55	B				14	3336	1.29	B			
100	18	2646	1.22	B				12	2974	1.00	B			

CMIS 110

7.5	233	5354	22.26		BS	B		153	6567	17.94		BS	B	
10	175	5921	18.67		BS	B		115	7045	14.76		BS	B	
15	117	6461	13.90		BS	B		77	7744	11.07		BS	B	
20	88	6549	10.69		BS	B		58	7222	7.84		BS	B	
25	70	5930	7.83		BS	B		46	6797	6.05		BS	B	
30	58	7213	8.34		BS	B		38	8461	6.68		BS	B	
40	44	6797	5.97		B			29	7859	4.71		B		
50	35	6186	4.52		B			23	7151	3.62		B		
60	29	5540	3.51		B			19	6487	2.90		B		
80	22	4974	2.54		B			14	5806	2.10		B		
100	18	4629	2.01					12	5301	1.64				

NOTA

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

B/BS = Casquillo de reducción en acero.



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NOTE

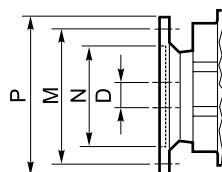
Highlighted áreas indicate the motor input flange available on each gearbox size.

B/BS = Metal shaft sleeve.



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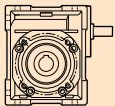


Dimensiones NEMA/ NEMA Dimensions				
	56 C	140 TC	180 TC	210 TC
N	4.5		8.5	
M	5.88		7.25	
P	6.5		9	
D	0.625	0.875	1.125	1.375



Datos técnicos

Technical data

	i	n ₁ = 1750 rpm							n ₁ = 1150 rpm						
		n ₂ [rpm]	Mn ₂ [lb·in]	Pn ₁ [hp]	NEMA Motores aplicables NEMA Motor adapters				n ₂ [rpm]	Mn ₂ [lb·in]	Pn ₁ [hp]	NEMA Motores aplicables NEMA Motor adapters			
					56 C	140 TC	180 TC	210 TC				56 C	140 TC	180 TC	210 TC
CMIS 130															
	7.5	233	6638	27.59		BS	B		153	7700	21.27		BS	B	
	10	175	7257	22.88		BS	B		115	8408	17.62		BS	B	
	15	117	8054	17.32		BS	B		77	9293	13.45		BS	B	
	20	88	8054	13.14		BS	B		58	9293	10.33		BS	B	
	25	70	8142	10.76		BS	B		46	9293	8.37		BS	B	
	30	58	9293	10.74		BS	B		38	10443	8.24		BS	B	
	40	44	9293	8.16		B			29	9735	6.00		B		
	50	35	8585	6.27		B			23	9381	4.69		B		
	60	29	7877	4.99		B			19	8585	3.73		B		
	80	22	7346	3.75		B			14	7788	2.77		B		
	100	18	6505	2.82					12	6992	2.16				

NOTA

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

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NOTE

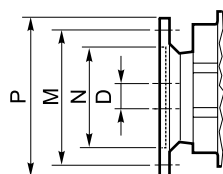
Highlighted áreas indicate the motor input flange available on each gearbox size.

B/BS = Metal shaft sleeve.



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



Dimensiones NEMA/ NEMA Dimensions				
	56 C	140 TC	180 TC	210 TC
N		4.5		8.5
M		5.88		7.25
P		6.5		9
D	0.625	0.875	1.125	1.375





Datos técnicos

Technical data

P ₁ [hp]	n ₂ [rpm]	M ₂ [lb·in]	sf	AGMA	i			
0.16 hp								
0.12 kW (1750 rpm)	350	25	14.3	III	5	CM040	56C	
	233	37	10.5	III	7.5		56C	
	175	48	8.2	III	10		56C	
	117	70	5.7	III	15		56C	
	88	90	3.9	III	20		56C	
	70	107	3.2	III	25		56C	
	58	121	3.5	III	30		56C	
	44	150	2.5	III	40		56C	
	35	173	2.0	II	50		56C	
	29	201	1.6	II	60		56C	
	22	240	1.2	I	80		56C	
	18	265	1.0	I	100		56C	
	35	182	3.5	III	50		CM050	56C
	29	208	2.9	III	60			56C
	22	249	2.1	III	80			56C
18	283	1.8	II	100	56C			

0.12 kW (1150 rpm)	58	130	3.1	III	20	CM040	56C	
	46	154	2.5	III	25		56C	
	38	174	2.9	III	30		56C	
	29	211	2.0	III	40		56C	
	23	250	1.6	II	50		56C	
	19	279	1.4	I	60		56C	
	14	323	1.1	I	80		56C	
	12	360	0.9	I	100		56C	
	29	218	3.5	III	40		CM050	56C
	23	259	2.8	III	50			56C
	19	290	2.3	III	60			56C
	14	337	1.8	II	80			56C
	12	377	1.5	II	100			56C

0.25 hp								
0.18 kW (1750 rpm)	350	40	9.2	III	5	CM040	56C	
	233	58	6.7	III	7.5		56C	
	175	76	5.3	III	10		56C	
	117	109	3.6	III	15		56C	
	88	141	2.5	III	20		56C	
	70	167	2.0	III	25		56C	
	58	189	2.2	III	30		56C	
	44	234	1.6	II	40		56C	
	35	270	1.3	I	50		56C	
	29	314	1.0	I	60		56C	
	44	241	2.8	III	40		CM050	56C
	35	284	2.2	III	50			56C
	29	324	1.9	II	60			56C
	22	389	1.4	I	80			56C
	18	442	1.1	I	100			56C
	22	411	2.5	III	80			CM063
	18	469	2.2	III	100		56C	





P ₁ [hp]	n ₂ [rpm]	M ₂ [lb·in]	sf	AGMA	i				
0.25 hp									
0.18 kW (1150 rpm)	77	158	3.0	III	15	CM040	56C		
	58	203	2.0	II	20		56C		
	46	240	1.6	II	25		56C		
	38	272	1.8	II	30		56C		
	29	329	1.3	I	40		56C		
	23	391	1.0	I	50		56C		
	19	436	0.9	I	60		56C		
	58	206	3.4	III	20		CM050	56C	
	46	247	2.7	III	25			56C	
	38	280	3.1	III	30			56C	
	29	340	2.2	III	40			56C	
	23	405	1.8	II	50			56C	
	19	453	1.5	II	60			56C	
	14	527	1.2	I	80			56C	
	12	590	1.0	I	100			56C	
	19	477	2.6	III	60			CM063	56C
	14	570	2.0	II	80				56C
	12	644	1.7	II	100		56C		

0.33 hp									
0.22 kW (1750 rpm)	350	52	6.9	III	5	CM040	56C		
	233	77	5.1	III	7.5		56C		
	175	100	4.0	III	10		56C		
	117	145	2.8	III	15		56C		
	88	186	1.9	II	20		56C		
	70	220	1.5	II	25		56C		
	58	250	1.7	II	30		56C		
	44	309	1.2	I	40		56C		
	35	357	1.0	I	50		56C		
	88	188	3.4	III	20		CM050	56C	
	70	226	2.7	III	25			56C	
	58	257	3.0	III	30			56C	
	44	319	2.1	III	40			56C	
	35	375	1.7	II	50			56C	
	29	428	1.4	II	60			56C	
	22	514	1.0	I	80			56C	
	18	583	0.9	I	100			56C	
	29	450	2.5	III	60			CM063	56C
	22	542	1.9	II	80				56C
	18	619	1.7	II	100		56C		
18	654	2.5	III	100	CM075	56C			

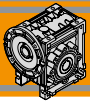


Datos técnicos

Technical data





P ₁ [hp]	n ₂ [rpm]	M ₂ [lb·in]	sf	AGMA	i			P ₁ [hp]	n ₂ [rpm]	M ₂ [lb·in]	sf	AGMA	i				
0.33 hp								0.5 hp									
0.22 kW (1150 rpm)	153	114	4.0	III	7.5	CM040	56C	0.37 kW (1150 rpm)	230	118	3.5	III	5	CM040	56C		
	115	148	3.1	III	10				153	173	2.6	III	7.5			56C	
	77	209	2.3	III	15				115	225	2.0	III	10			56C	
	58	268	1.5	II	20				77	317	1.5	II	15			56C	
	46	317	1.2	I	25				58	406	1.0	I	20			56C	
	38	358	1.4	I	30				46	480	0.8	I	25			56C	
	29	434	1.0	I	40												
	23	516	0.8	I	50												
	58	272	2.6	III	20				CM050	56C	115	230	3.6			III	10
	46	326	2.0	III	25	77	325				2.6	III	15	56C			
	38	369	2.4	III	30	58	411				1.7	II	20	56C			
	29	449	1.7	II	40	46	494				1.3	I	25	56C			
	23	534	1.3	I	50	38	559				1.6	II	30	56C			
	19	597	1.1	I	60	29	680				1.1	I	40	56C			
	14	695	0.9	I	80	23	809		0.9	I	50	56C					
	29	471	3.0	III	40	CM063	56C		46	514	2.4	III	25	CM063	56C		
	23	552	2.4	III	50				38	576	2.9	III	30			56C	
	19	630	2.0	II	60				29	713	2.0	II	40			56C	
14	753	1.5	II	80	23			836	1.6	II	50	56C					
12	851	1.3	I	100	19			954	1.3	I	60	56C					
					14			1141	1.0	I	80	56C					
14	796	2.5	III	80	CM075	56C	29	746	3.4	III	40	CM075	56C				
12	905	2.0	III	100			23	878	2.6	III	50			56C			
							19	987	2.3	III	60			56C			
							14	1207	1.6	II	80			56C			
							12	1371	1.3	I	100			56C			
0.5 hp								0.75 hp									
0.37 kW (1750 rpm)	350	79	4.6	III	5	CM040	56C	0.55 kW (1750 rpm)	350	118	5.6	III	5	CM050	56C		
	233	116	3.4	III	7.5				233	176	4.0	III	7.5			56C	
	175	151	2.6	III	10				175	230	3.2	III	10			56C	
	117	219	1.8	II	15				117	333	2.2	III	15			56C	
	88	281	1.3	I	20				88	427	1.5	II	20			56C	
	70	333	1.0	I	25				70	514	1.2	I	25			56C	
	58	378	1.1	I	30				58	584	1.3	I	30			56C	
									44	724	0.9	I	40			56C	
	117	222	3.3	III	15				CM050	56C	88	438	2.7			III	20
	88	285	2.2	III	20	70	527				2.3	III	25	56C			
	70	342	1.8	II	25	58	608				2.4	III	30	56C			
	58	389	2.0	III	30	44	757				1.7	II	40	56C			
	44	483	1.4	I	40	35	892				1.3	I	50	56C			
	35	568	1.1	I	50	29	1022				1.1	I	60	56C			
	29	649	0.9	I	60	22	1233		0.8	I	80	56C					
	70	351	3.4	III	25	CM063	56C										
	58	406	3.6	III	30												
	44	505	2.5	III	40												
35	595	2.0	III	50													
29	681	1.6	II	60													
22	822	1.3	I	80													
18	937	1.1	I	100													
29	703	2.7	III	60	CM075	56C											
22	865	2.0	II	80													
18	991	1.6	II	100													





Datos técnicos



Technical data



P ₁ [hp]	n ₂ [rpm]	M ₂ [lb·in]	sf	AGMA	i			P ₁ [hp]	n ₂ [rpm]	M ₂ [lb·in]	sf	AGMA	i						
0.75 hp								1 hp											
0.55 kW (1750 rpm)	44	779	2.9	III	40	CM075	56C	0.75 kW (1750 rpm)	117	454	3.0	III	15	CM063	56C-140TC				
	35	933	2.2	III	50				56C	88	584	2.1	III			20	56C-140TC		
	29	1054	1.8	II	60				56C	70	703	1.7	II			25	56C-140TC		
	22	1298	1.3	I	80				56C	58	811	1.8	II			30	56C-140TC		
	18	1487	1.1	I	100				56C	44	1009	1.2	I			40	56C-140TC		
	35	987	3.5	III	50	CM090	56C		35	1189	1.0	I	50	56C-140TC					
	29	1135	2.7	III	60				56C	70	721	2.8	III	25	CM075	56C-140TC			
	22	1384	2.1	III	80				56C	58	833	3.1	III	30			56C-140TC		
	18	1622	1.6	II	100				56C	44	1038	2.1	III	40			56C-140TC		
										35	1244	1.6	II	50			56C-140TC		
						29	1406	1.4	I	60	56C-140TC								
						22	1730	1.0	I	80	56C-140TC								
0.55 kW (1150 rpm)	153	262	3.1	III	7.5	CM050	56C	0.75 kW (1150 rpm)	44	1096	3.5	III	40	CM090	56C-140TC				
	115	346	2.4	III	10				56C	35	1316	2.6	III			50	56C-140TC		
	77	487	1.7	II	15				56C	29	1514	2.1	III			60	56C-140TC		
	58	617	1.1	I	20				56C	22	1845	1.6	II			80	56C-140TC		
	46	740	0.9	I	25				56C	18	2163	1.2	I			100	56C-140TC		
	38	839	1.0	I	30	56C	22		1961	2.4	III	80	CM110	140TC					
	77	500	3.2	III	15	CM063	56C-140TC		18	2307	1.9	II			100	140TC			
	58	642	2.1	III	20				56C-140TC	22	1990	3.7			III	80	CM130	140TC	
	46	771	1.6	II	25				56C-140TC	18	2307	2.8			III	100			140TC
	38	864	1.9	II	30				56C-140TC										
	29	1070	1.3	I	40				56C-140TC										
	23	1255	1.1	I	50	56C-140TC													
	19	1432	0.9	I	60	56C													
	46	792	2.7	III	25	CM075	56C-140TC		230	239	3.3	III	5	CM050	56C				
	38	901	3.3	III	30				56C-140TC	153	350	2.3	III			7.5	56C		
	29	1119	2.3	III	40				56C-140TC	115	461	1.8	II			10	56C		
	23	1316	1.7	II	50				56C-140TC	77	650	1.3	I			15	56C		
	19	1481	1.5	II	60				56C-140TC	58	823	0.9	I			20	56C		
	14	1810	1.1	I	80	56C-140TC	115		461	3.4	III	10	CM063	56C-140TC					
	12	2057	0.9	I	100	56C	77		666	2.4	III	15			56C-140TC				
23	1399	2.8	III	50	CM090	56C-140TC	58	856	1.6	II	20	56C-140TC							
19	1580	2.3	III	60			56C-140TC	46	1028	1.2	I	25			56C-140TC				
14	1942	1.7	II	80			56C-140TC	38	1152	1.4	II	30			56C-140TC				
12	2221	1.3	I	100			56C-140TC	29	1426	1.0	I	40	56C-140TC						
14	2073	2.8	III	80			CM110	140TC	58	867	2.8	III	20	CM075	56C-140TC				
12	2427	2.2	III	100	140TC	46			1056	2.0	III	25	56C-140TC						
						38			1201	2.4	III	30	56C-140TC						
						29			1492	1.7	II	40	56C-140TC						
						23			1755	1.3	I	50	56C-140TC						
1 hp	350	157	4.2	III	5	CM050	56C	19	1975	1.1	I	60	56C-140TC						
	233	235	3.0	III	7.5			56C	14	2413	0.8	I	80	56C-140TC					
	175	306	2.4	III	10			56C											
	117	443	1.6	II	15			56C											
	88	570	1.1	I	20			56C											
	70	685	0.9	I	25			56C											
	58	779	1.0	I	30			56C											
									46	1097	3.4	III	25	CM090	56C-140TC				
									29	1558	2.8	III	40			56C-140TC			
									23	1865	2.1	III	50			56C-140TC			
						19	2106	1.7	II	60	56C-140TC								
						14	2589	1.3	I	80	56C-140TC								
						12	2962	1.0	I	100	56C-140TC								



Datos técnicos

Technical data

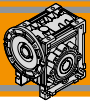
P ₁ [hp]	n ₂ [rpm]	M ₂ [lb·in]	sf	AGMA	i		
1 hp							
0.75 kW (1150 rpm)	19	2238	2.9	III	60	CM110	140TC
	14	2764	2.1	III	80		140TC
	12	3236	1.6	II	100		140TC
	14	2808	2.8	III	80	CM130	140TC
	12	3236	2.2	III	100		140TC

P ₁ [hp]	n ₂ [rpm]	M ₂ [lb·in]	sf	AGMA	i		
1.5 hp							
1.1 kW (1150 rpm)	58	1349	3.1	III	20	CM090	140TC-180TC
	46	1646	2.3	III	25		140TC-180TC
	38	1876	2.7	III	30		140TC-180TC
	29	2337	1.9	II	40		140TC-180TC
	23	2797	1.4	II	50		140TC-180TC
	19	3159	1.2	I	60		140TC
	14	3883	0.9	I	80	140TC	
	29	2501	3.1	III	40	CM110	140TC-180TC
	23	2962	2.4	III	50		140TC-180TC
	19	3357	1.9	II	60		140TC-180TC
	14	4147	1.4	II	80		140TC-180TC
	12	4854	1.1	I	100		140TC
23	3003	3.1	III	50	CM130		140TC-180TC
19	3456	2.5	III	60		140TC-180TC	
14	4213	1.8	II	80		140TC-180TC	
12	4854	1.4	II	100		140TC	

1.5 hp								
1.1 kW (1750 rpm)	175	465	2.8	III	10	CM063	56C-140TC	
	117	681	2.0	III	15		56C-140TC	
	88	876	1.4	I	20		56C-140TC	
	70	1054	1.1	I	25		56C-140TC	
	58	1217	1.2	I	30		56C-140TC	
	117	681	3.5	III	15		CM075	56C-140TC
	88	898	2.4	III	20	56C-140TC		
	70	1081	1.8	II	25	56C-140TC		
	58	1249	2.0	III	30	56C-140TC		
	44	1557	1.4	II	40	56C-140TC		
	35	1865	1.1	I	50	56C-140TC		
	29	2109	0.9	I	60	56C-140TC		
	70	1122	2.9	III	25	CM090	56C-140TC	
	58	1298	3.4	III	30		56C-140TC	
	44	1644	2.3	III	40		56C-140TC	
	35	1973	1.7	II	50		56C-140TC	
	29	2271	1.4	I	60		56C-140TC	
	22	2768	1.0	I	80		56C-140TC	
	35	2055	2.8	III	50	CM110	140TC	
	29	2368	2.2	III	60		140TC	
	22	2941	1.6	II	80		140TC	
	18	3460	1.2	I	100		140TC	
	29	2368	3.3	III	60		CM130	140TC
	22	2984	2.5	III	80			140TC
18	3460	1.9	II	100	140TC			





2 hp							
1.5 kW (1750 rpm)	233	476	2.7	III	7.5	CM063	56C-140TC
	175	620	2.1	III	10		56C-140TC
	117	908	1.5	II	15		56C-140TC
	88	1168	1.0	I	20		56C-140TC
	70	1406	0.8	I	25		56C-140TC
	58	1622	0.9	I	30		56C-140TC
	117	908	2.6	III	15	CM075	56C-140TC
	88	1197	1.8	II	20		56C-140TC
	70	1442	1.4	I	25		56C-140TC
	58	1665	1.5	II	30		56C-140TC
	44	2076	1.1	I	40		56C-140TC
	35	2487	0.8	I	50		56C-140TC
	88	1211	3.0	III	20	CM090	56C-140TC
	70	1496	2.2	III	25		56C-140TC
	58	1730	2.5	III	30		56C-140TC
	44	2192	1.8	II	40		56C-140TC
	35	2631	1.3	I	50		56C-140TC
	29	3028	1.0	I	60		56C-140TC
	44	2278	2.8	III	40	CM110	140TC
	35	2739	2.1	III	50		140TC
	29	3158	1.6	II	60		140TC
	22	3922	1.2	I	80		140TC
	18	4614	0.9	I	100		140TC
	35	2703	3.2	III	50		CM130
29	3158	2.5	III	60	140TC		
22	3979	1.8	II	80	140TC		
18	4614	1.4	II	100	140TC		

1.1 kW (1150 rpm)	230	366	3.9	III	5	CM063	140TC
	153	531	2.8	III	7.5		140TC
	115	691	2.3	III	10		140TC
	77	1000	1.6	II	15		140TC
	58	1283	1.1	I	20		140TC
	115	699	3.8	III	10		CM075
	77	1024	2.7	III	15	140TC-180TC	
	58	1300	1.9	II	20	140TC-180TC	
	46	1584	1.4	I	25	140TC-180TC	
	38	1802	1.6	II	30	140TC-180TC	
	29	2238	1.1	I	40	140TC	
	23	2633	0.9	I	50	140TC	



Datos técnicos



Technical data

P ₁ [hp]	n ₂ [rpm]	M ₂ [lb·in]	sf	AGMA	i			P ₁ [hp]	n ₂ [rpm]	M ₂ [lb·in]	sf	AGMA	i		
2 hp								3 hp							
1.5 kW (1150 rpm)	153	716	3.5	III	7.5	CM075	180TC	2.2 kW (1750 rpm)	88	1838	3.2	III	20	CM110	140TC-180TC
	115	932	2.9	III	10			70	2271	2.4	III	25	140TC-180TC		
	77	1366	2.0	III	15			58	2628	2.5	III	30	140TC-180TC		
	58	1733	1.4	II	20			44	3417	1.9	II	40	140TC-180TC		
	46	2112	1.0	I	25			35	4109	1.4	I	50	140TC-180TC		
	38	2402	1.2	I	30			29	4736	1.1	I	60	140TC-180TC		
	153	724	5.1	III	7.5	CM090	180TC	70	2244	3.6	III	25	CM130	140TC-180TC	
	115	954	4.2	III	10			58	2563	3.6	III	30			140TC-180TC
	77	1382	3.3	III	15			44	3287	2.8	III	40			140TC-180TC
	58	1799	2.3	III	20			35	4055	2.1	III	50			140TC-180TC
	46	2194	1.7	II	25			29	4736	1.7	II	60			140TC-180TC
	38	2501	2.0	III	30			22	5969	1.2	I	80			140TC
	29	3116	1.4	II	40	CM110	180TC	2.2 kW (1150 rpm)	77	2098	3.7	III	15	CM110	210TC
	23	3730	1.1	I	50			58	2764	2.6	III	20	210TC		
46	2249	3.0	III	25	46			3373	2.0	III	25	210TC			
38	2534	3.3	III	30	38			3801	2.2	III	30	210TC			
29	3335	2.4	III	40	58			2699	3.4	III	20	CM130	210TC		
23	3949	1.8	II	50	46			3332	2.8	III	25			210TC	
19	4476	1.4	II	60	38	3801	2.7	III	30	210TC					
14	5529	1.1	I	80	CM130	180TC	5 hp								
29	3247	3.0	III	40			3.7 kW (1750 rpm)	233	1203	1.8	II	7.5	CM075	180TC	
23	4004	2.3	III	50			175	1568	1.5	II	10	180TC			
19	4607	1.9	II	60			117	2271	1.0	I	15	180TC			
14	5617	1.4	I	80			233	1217	2.5	III	7.5	CM090	180TC		
3 hp								175	1604	2.1	III			10	180TC
2.2 kW (1750 rpm)	350	487	2.4	III	5	CM063	140TC	117	2325	1.6	II			15	180TC
	233	714	1.8	II	7.5			88	3028	1.2	I			20	180TC
	175	930	1.4	II	10			70	3740	0.9	I			25	180TC
	117	1362	1.0	I	15			58	4325	1.0	I			30	180TC
	233	722	2.9	III	7.5	CM075	140TC-180TC	175	1604	3.4	III	10	CM110	180TC	
	175	941	2.4	III	10			117	2352	2.6	III	15			180TC
	117	1362	1.7	II	15			88	3064	1.9	II	20			180TC
	88	1795	1.2	I	20			70	3785	1.4	II	25			180TC
	70	2163	0.9	I	25			58	4379	1.5	II	30			180TC
	58	2498	1.0	I	30			44	5695	1.1	I	40			180TC
	175	962	3.5	III	10	CM090	140TC-180TC	35	6848	0.8	I	50	180TC		
	117	1395	2.7	III	15			117	2325	3.5	III	15	CM130	180TC	
	88	1817	2.0	III	20			88	3028	2.7	III	20			180TC
	70	2244	1.5	II	25			70	3740	2.2	III	25			180TC
58	2595	1.7	II	30	58			4271	2.2	III	30	180TC			
44	3287	1.2	I	40	44			5479	1.7	II	40	180TC			
35	3947	0.9	I	50	35	6758	1.3	I	50	180TC					
								29	7894	1.0	I	60	180TC		



Datos técnicos

Technical data

P ₁ [hp]	n ₂ [rpm]	M ₂ [lb·in]	sf	AGMA	i		
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5 hp

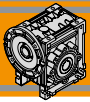
3.7 kW (1150 rpm)	153	1831	3.6	III	7.5	CM110	210TC	
	115	2386	3.0	III	10		210TC	
	77	3497	2.2	III	15		210TC	
	58	4607	1.6	II	20		210TC	
	46	5622	1.2	I	25		210TC	
	38	6335	1.3	I	30	210TC		
	115	2386	3.5	III	10	CM130	210TC	
		77	3456	2.7	III		15	210TC
		58	4498	2.1	III		20	210TC
		46	5554	1.7	II		25	210TC
38		6335	1.6	II	30		210TC	

7.5 hp

5.5 kW (1750 rpm)	233	1825	2.7	III	7.5	CM110	210TC	
	175	2406	2.3	III	10		210TC	
	117	3528	1.7	II	15		210TC	
	88	4596	1.3	I	20		210TC	
	70	3785	1.4	II	25		210TC	
	58	4379	1.5	II	30	210TC		
	233	1804	3.7	III	7.5	CM130	210TC	
		175	2379	3.1	III		10	210TC
		117	3487	2.3	III		15	210TC
		88	4542	1.8	II		20	210TC
70		5609	1.5	II	25		210TC	
58	6407	1.5	II	30	210TC			

10 hp

7.3 kW (1750 rpm)	233	2433	2.0	III	7.5	CM110	210TC
	175	3208	1.7	II	10		210TC
	117	4704	1.3	I	15		210TC
	88	6128	1.0	I	20		210TC
	233	2406	2.8	III	7.5		CM130
	175	3172	2.3	III	10	210TC	
	117	4650	1.7	II	15	210TC	
	88	6055	1.3	I	20	210TC	
	70	7479	1.1	I	25	210TC	
	58	8543	1.1	I	30	210TC	

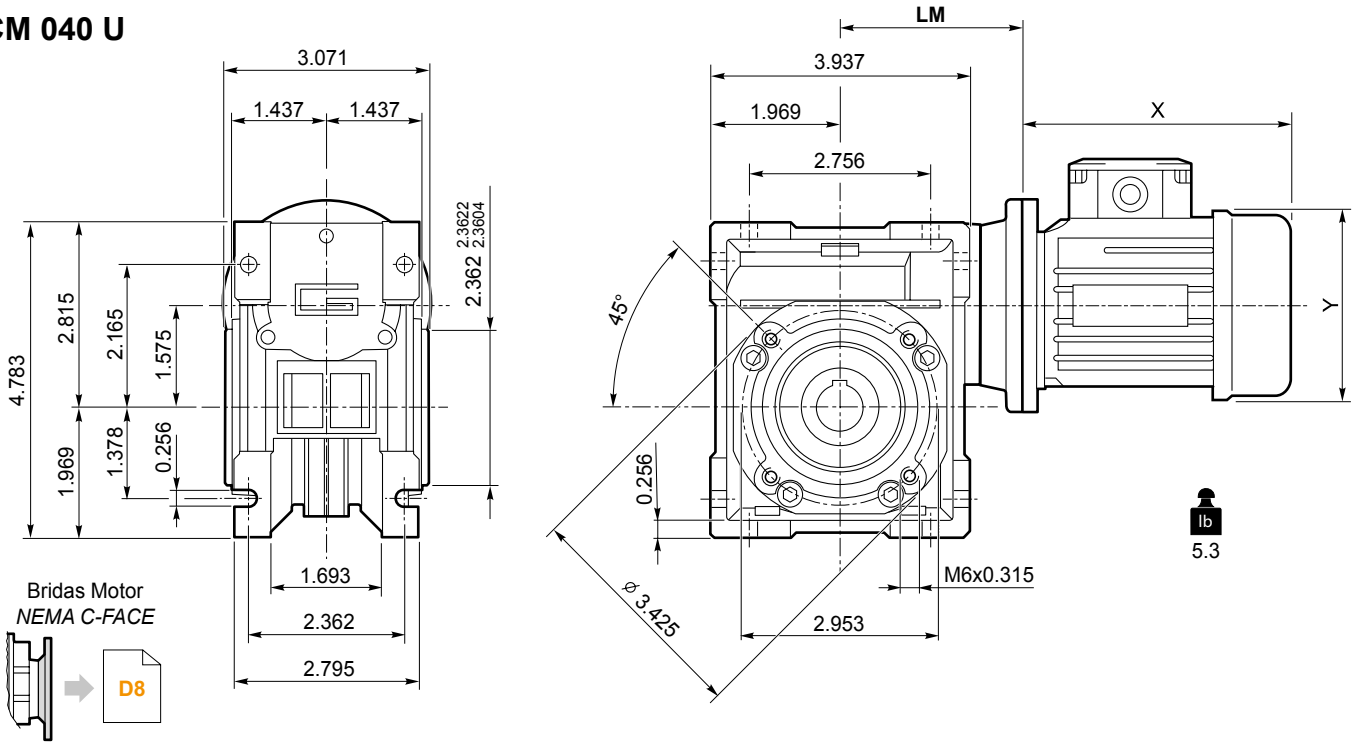


Dimensiones

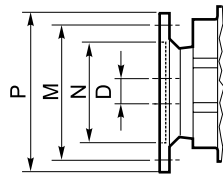
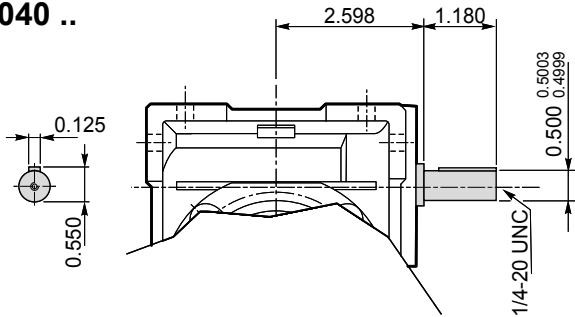
Dimensions

CM 040 U - CMIS 040 U

CM 040 U

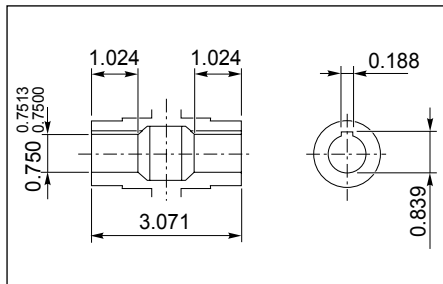


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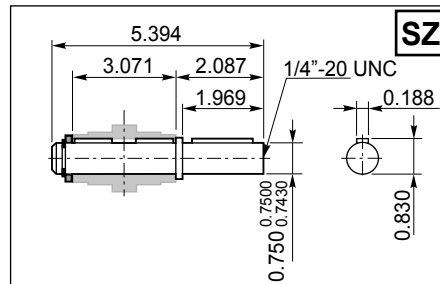


Brida Motor / Motor flange	
Dimensiones NEMA NEMA Dimensions	
	56 C
N	4.5
M	5.88
P	6.5
D	0.625
LM	3.150

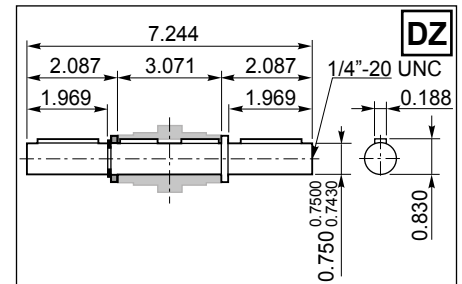
Eje de salida hueco / Hollow output shaft

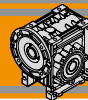


Eje de salida / Output shaft



Eje de salida / Output shaft



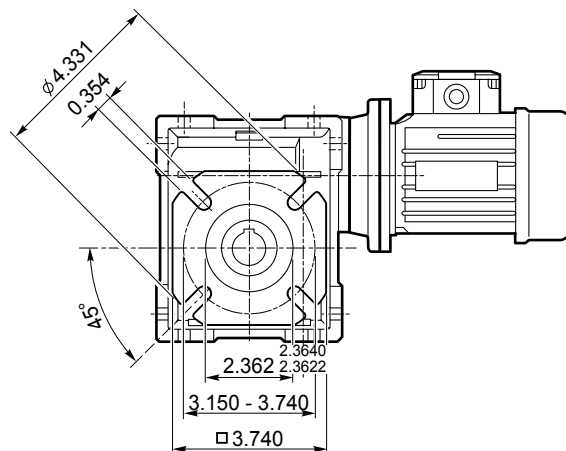
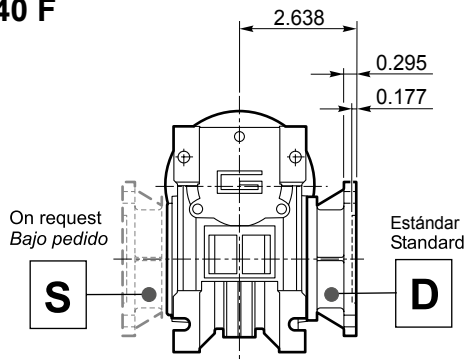


Dimensiones

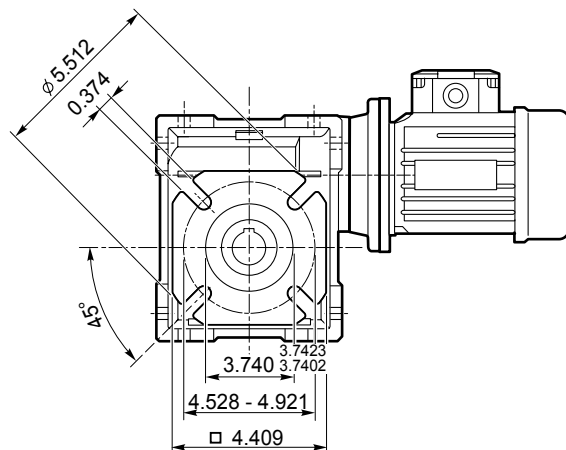
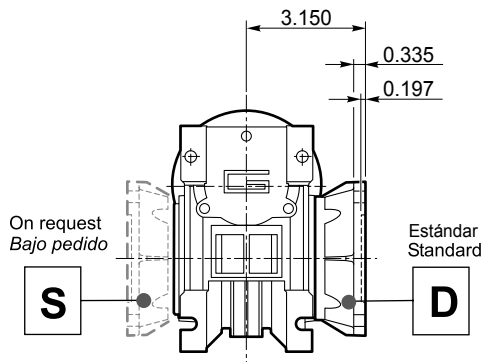
Dimensions

CM 040 F..

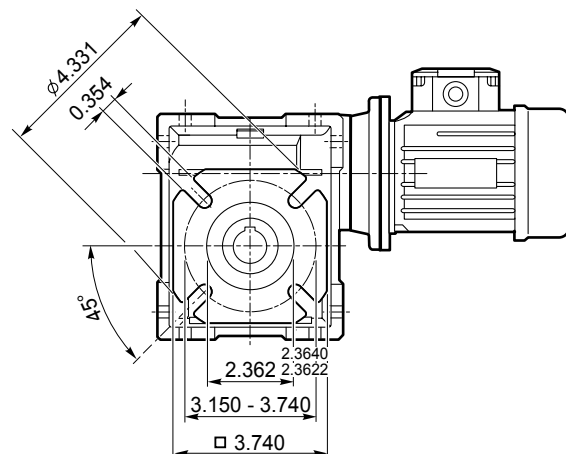
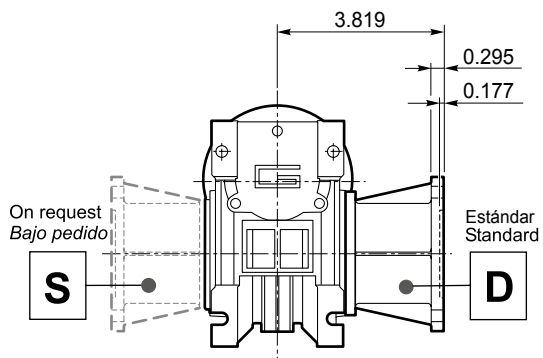
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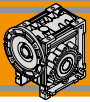
CM 040 FB



CM 040 FL



CM

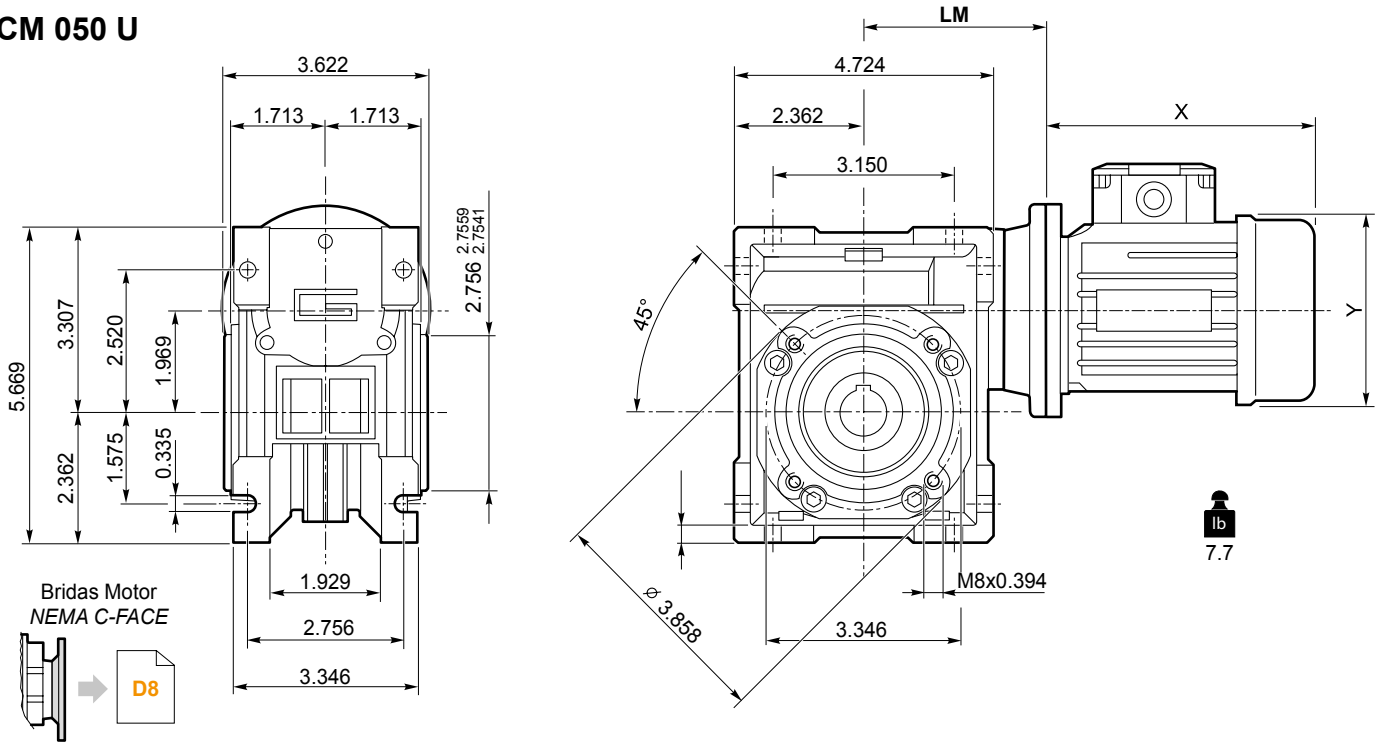


Dimensiones

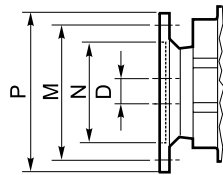
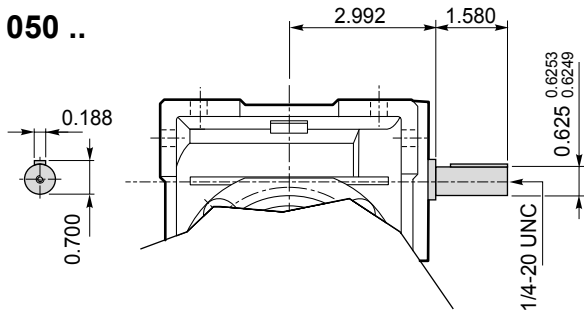
Dimensions

CM 050 U - CMIS 050 U

CM 050 U

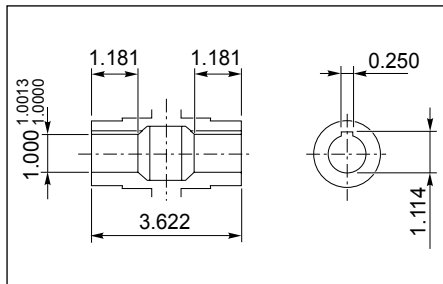


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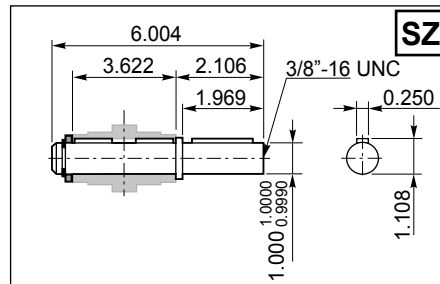


Brida Motor / Motor flange	
Dimensiones NEMA NEMA Dimensions	
	56 C
N	4.5
M	5.88
P	6.5
D	0.625
LM	3.346

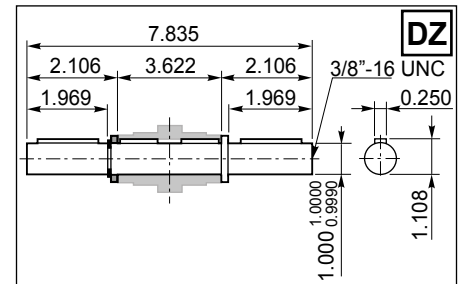
Eje de salida hueco / Hollow output shaft

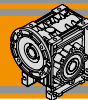


Eje de salida / Output shaft



Eje de salida / Output shaft



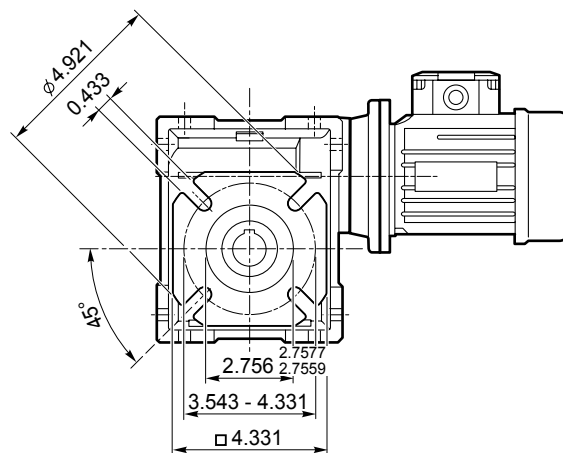
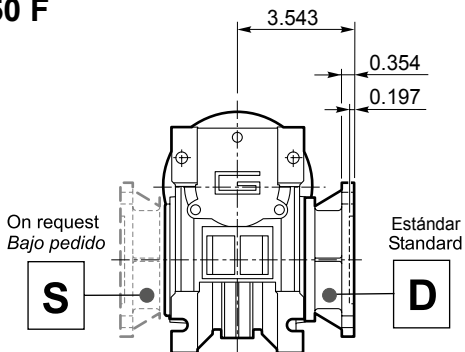


Dimensiones

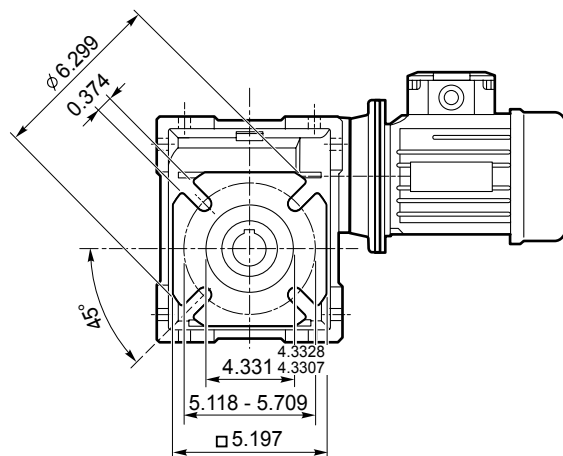
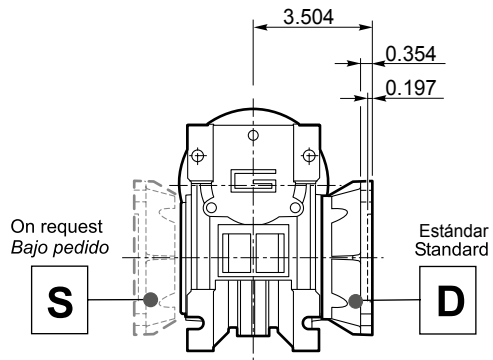
Dimensions

CM 050 F..

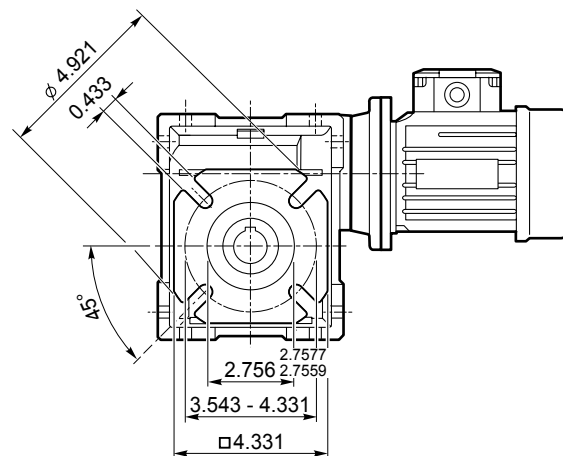
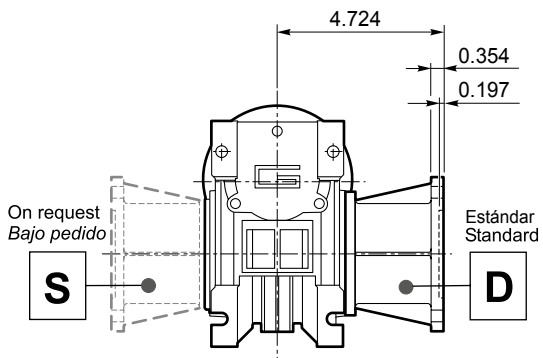
CM 050 F

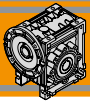


CM 050 FB



CM 050 FL



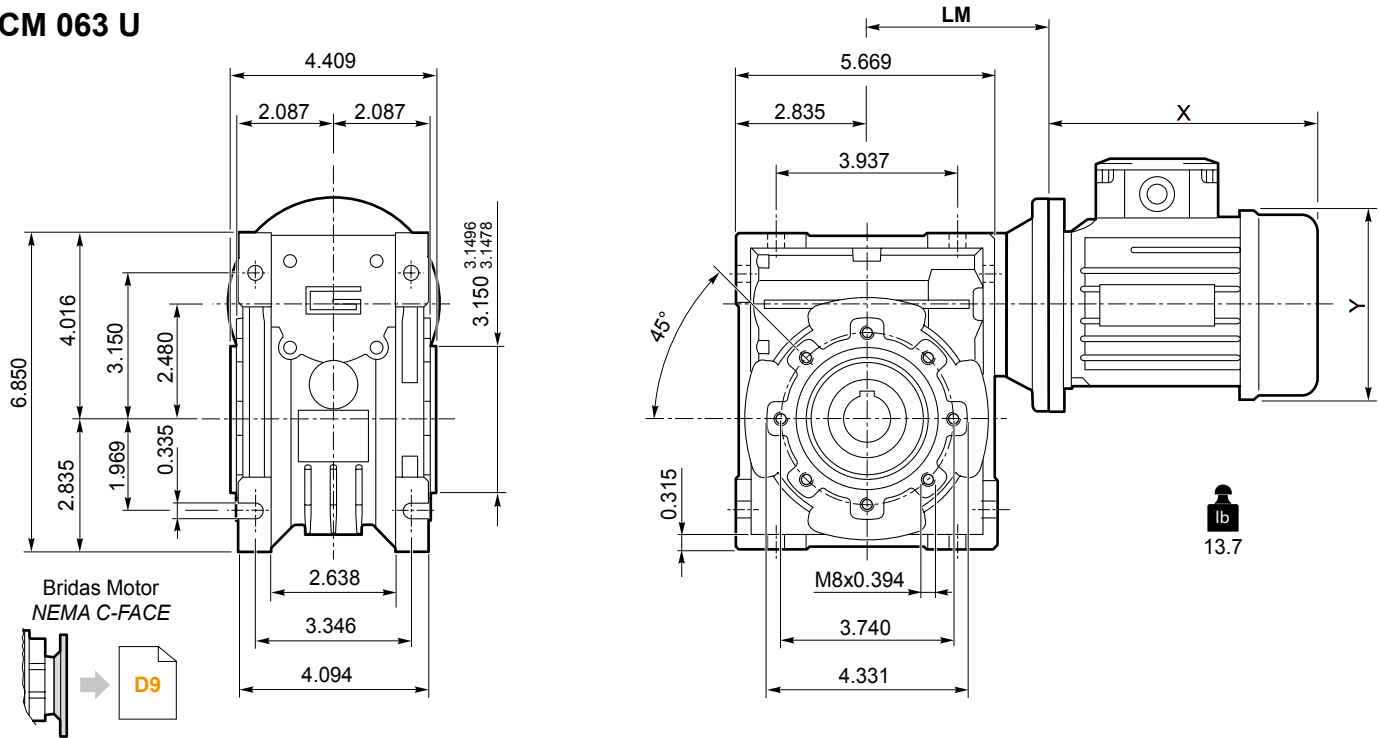


Dimensiones

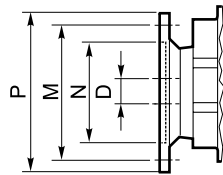
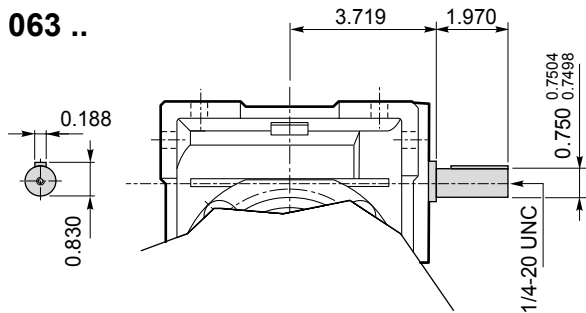
Dimensions

CM 063 U - CMIS 063 U

CM 063 U

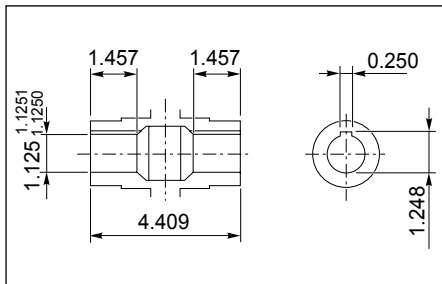


CMIS 063 ..

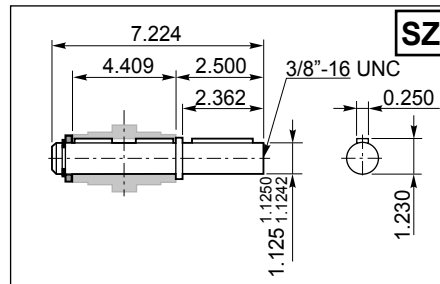


Brida Motor / Motor flange		
Dimensiones NEMA NEMA Dimensions		
	56 C	140 TC
N	4.5	
M	5.88	
P	6.5	
D	0.625	0.875
LM	4.055	

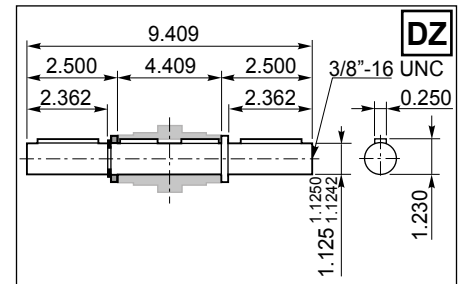
Eje de salida hueco / Hollow output shaft

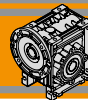


Eje de salida / Output shaft



Eje de salida / Output shaft



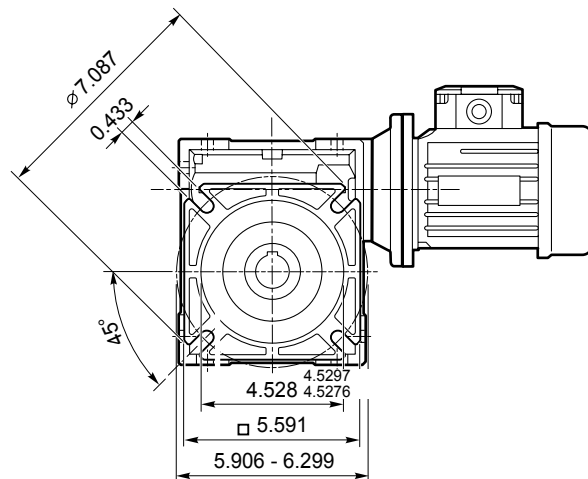
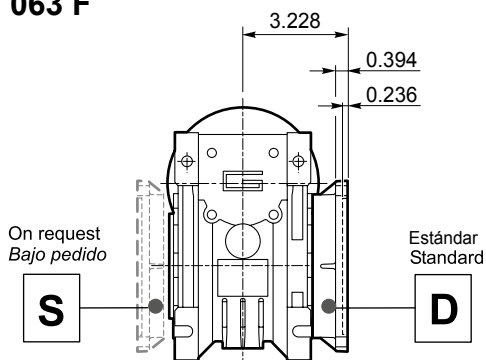


Dimensiones

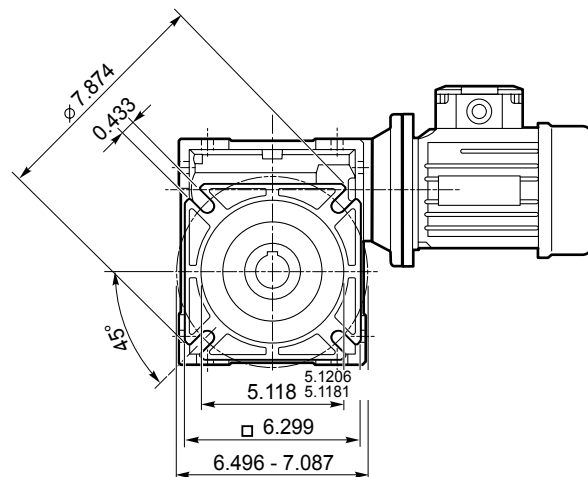
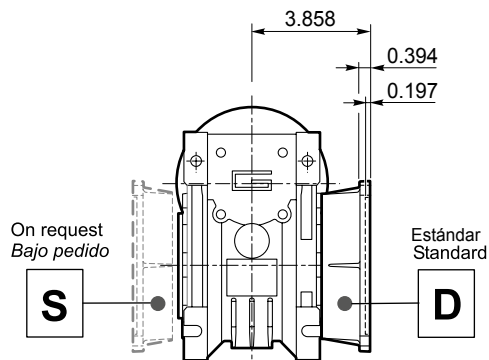
Dimensions

CM 063 F..

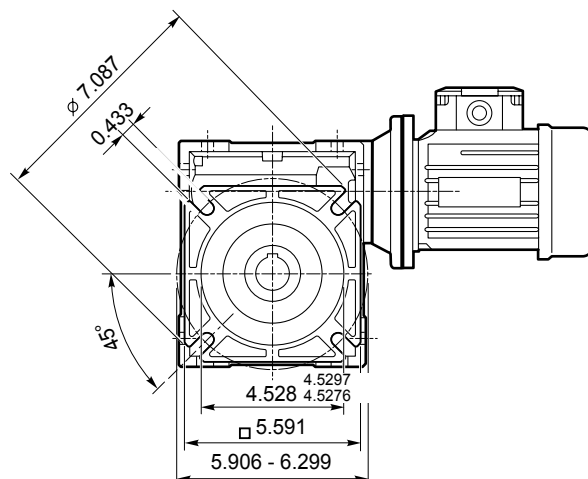
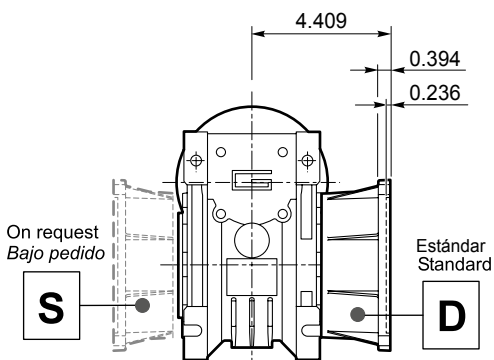
CM 063 F

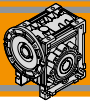


CM 063 FB



CM 063 FL



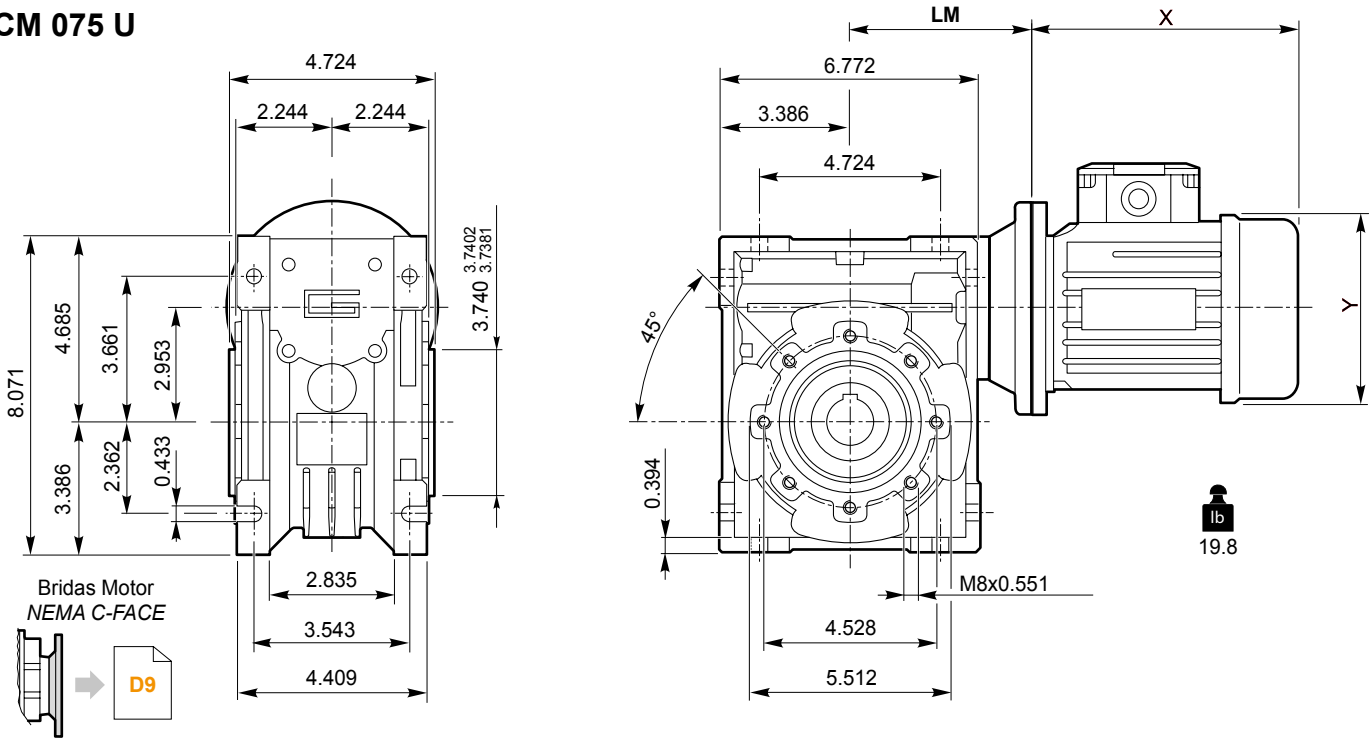


Dimensiones

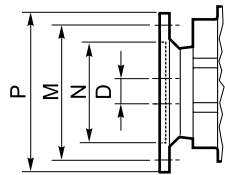
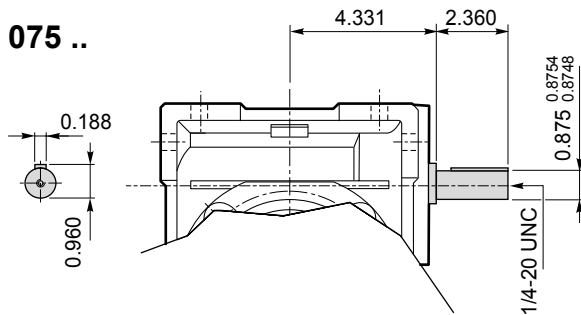
Dimensions

CM 075 U - CMIS 075 U

CM 075 U

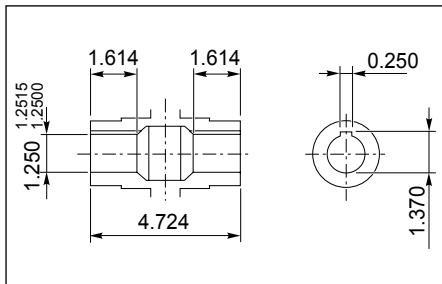


CMIS 075 ..

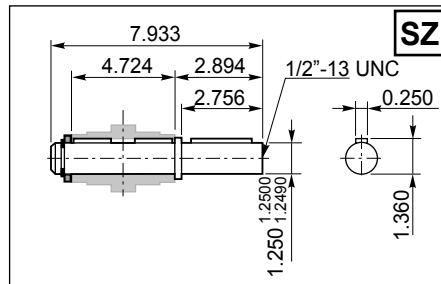


Brida Motor / Motor flange			
Dimensiones NEMA			
NEMA Dimensions			
	56 C	140 TC	180 TC
N	4.5		8.5
M	5.88		7.25
P	6.5		9
D	0.625	0.875	1.125
LM	4.055		4.750

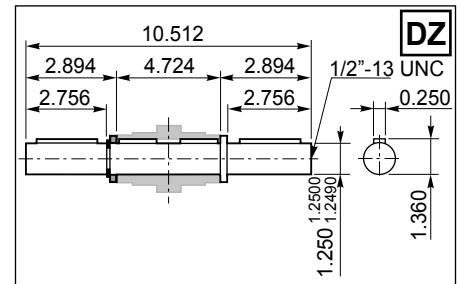
Eje de salida hueco / Hollow output shaft



Eje de salida / Output shaft



Eje de salida / Output shaft



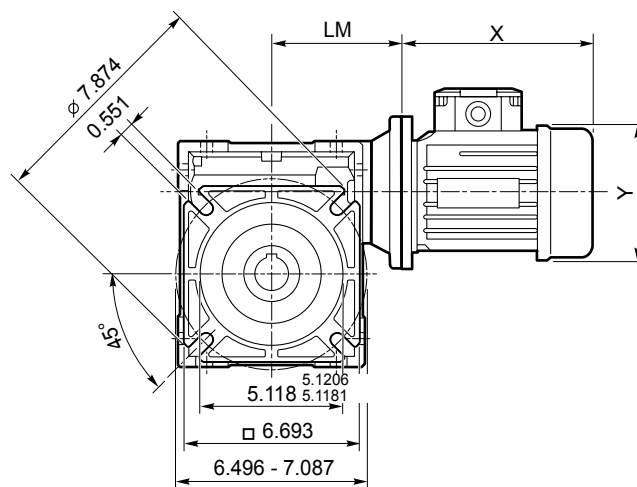
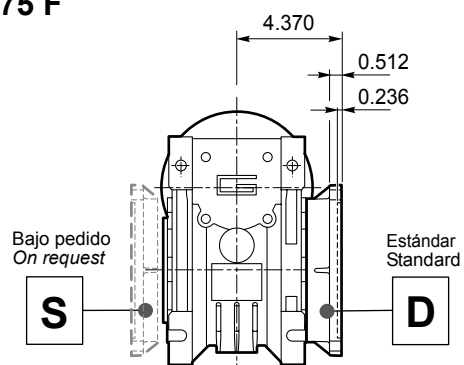


Dimensiones

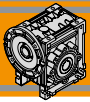
Dimensions

CM 075 F..

CM 075 F



CM

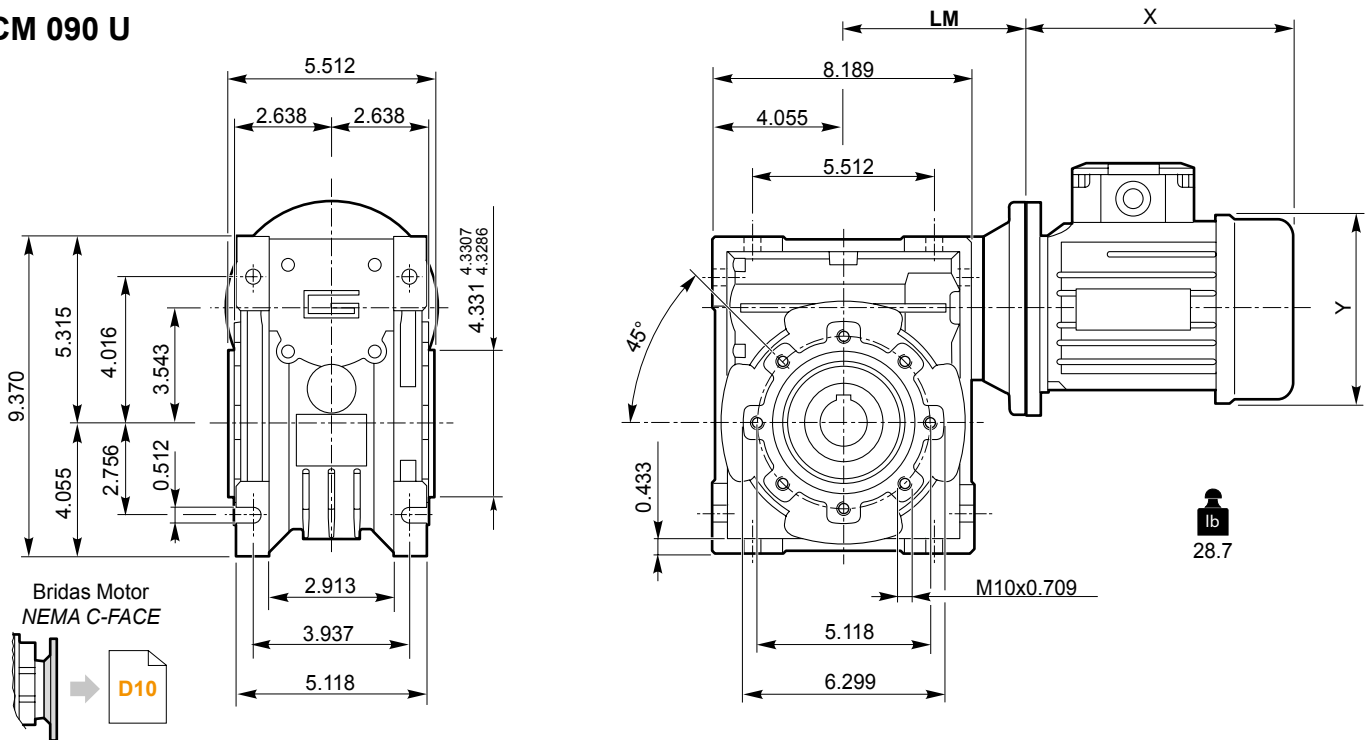


Dimensiones

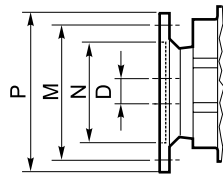
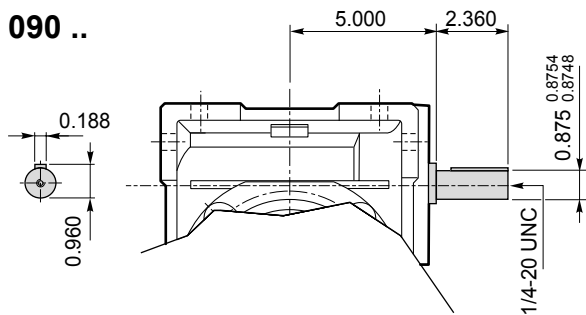
Dimensions

CM 090 U - CMIS 090 U

CM 090 U

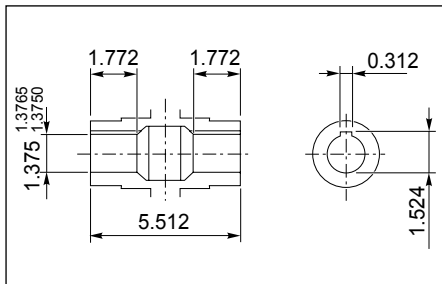


CMIS 090 ..

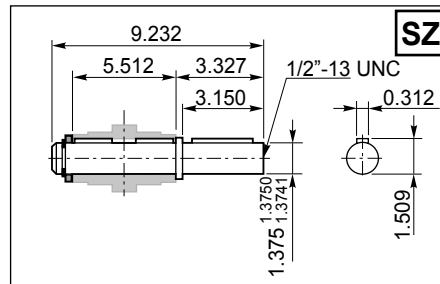


Brida Motor / Motor flange			
Dimensiones NEMA			
NEMA Dimensions			
	56 C	140 TC	180 TC
N	4.5		8.5
M	5.88		7.25
P	6.5		9
D	0.625	0.875	1.125
LM	5.512		5.419

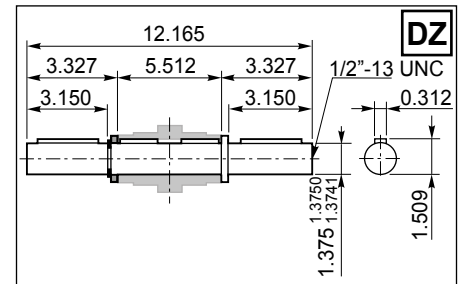
Eje de salida hueco / Hollow output shaft

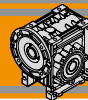


Eje de salida / Output shaft



Eje de salida / Output shaft



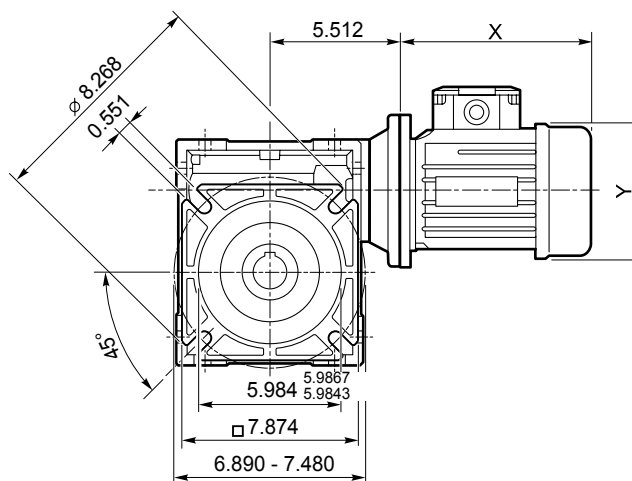
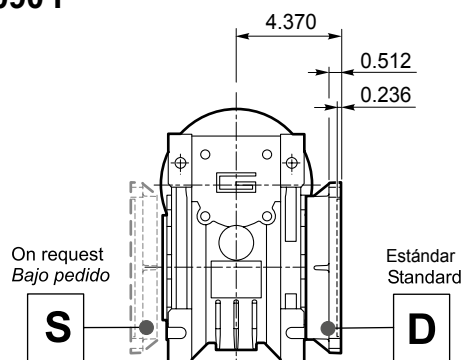


Dimensiones

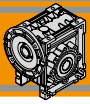
Dimensions

CM 090 F..

CM 090 F



CM

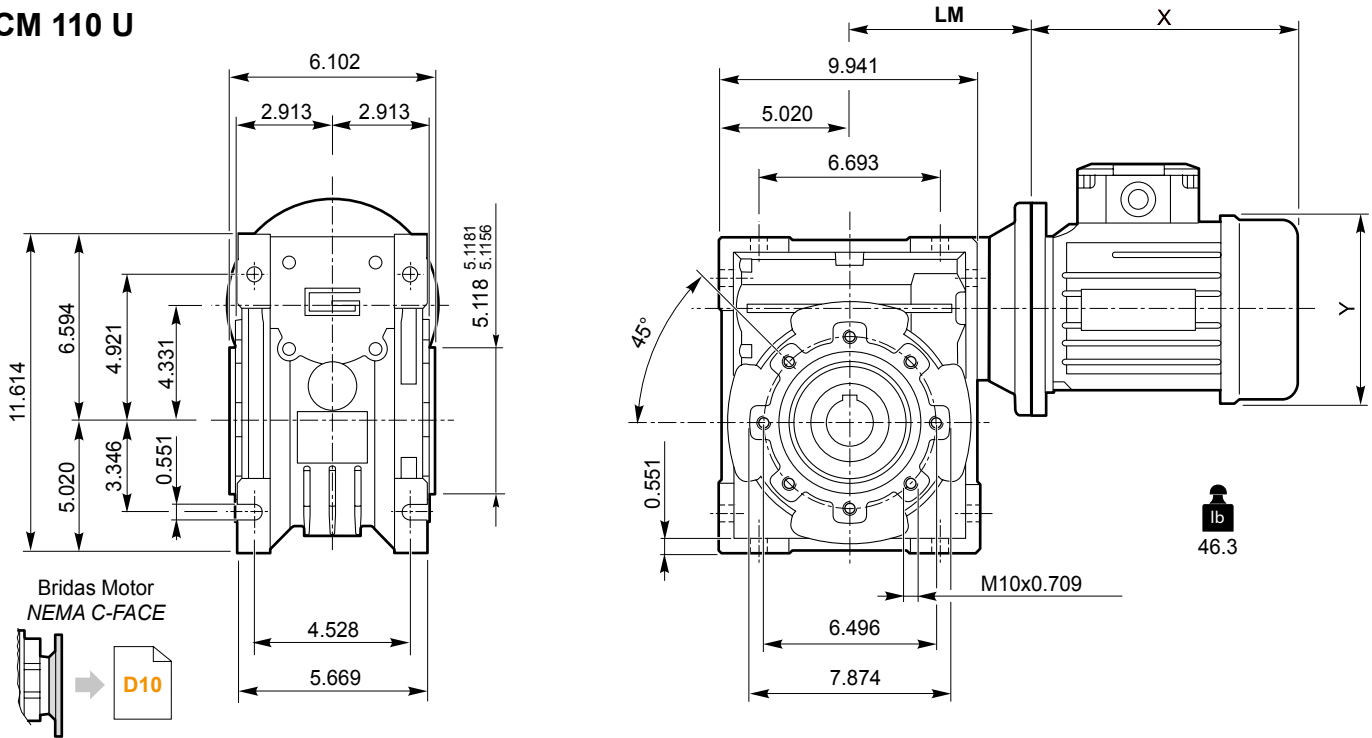


Dimensiones

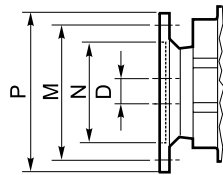
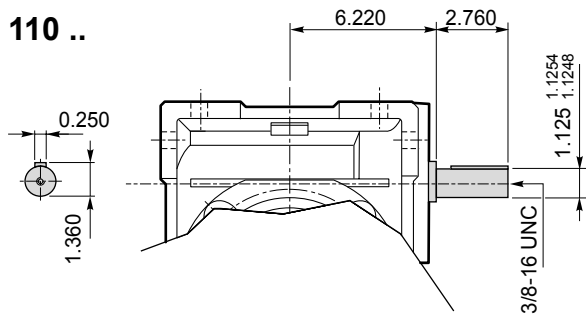
Dimensions

CM 110 U - CMIS 110 U

CM 110 U

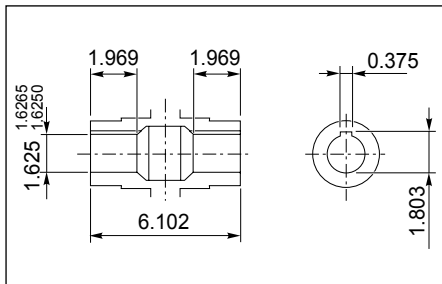


CMIS 110 ..

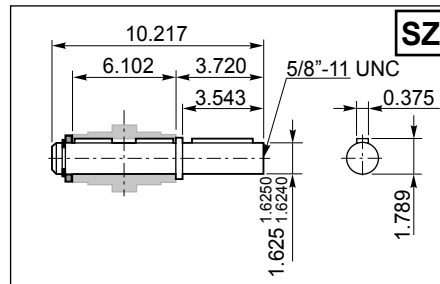


Brida Motor / Motor flange			
Dimensiones NEMA			
NEMA Dimensions			
	140 TC	180 TC	210 TC
N	4.5	8.5	
M	5.88	7.25	
P	6.5	9	
D	0.875	1.125	1.375
LM	6.693	6.482	

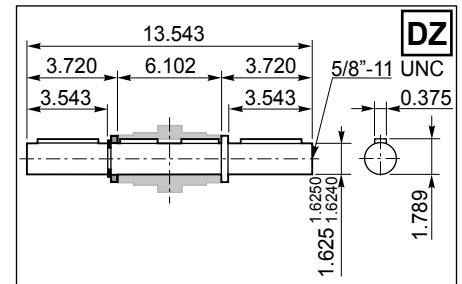
Eje de salida hueco / Hollow output shaft

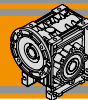


Eje de salida / Output shaft



Eje de salida / Output shaft



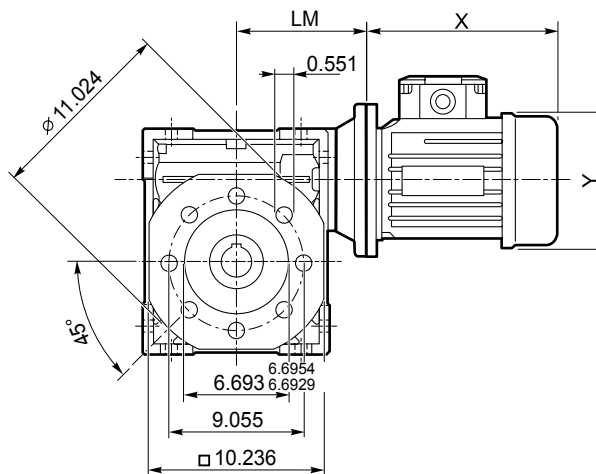
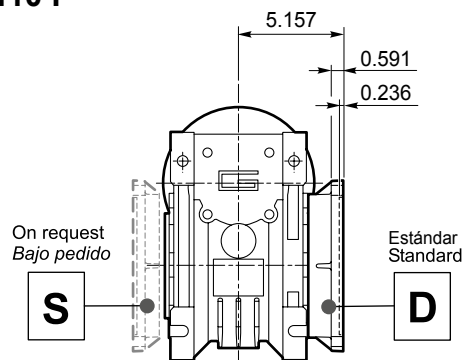


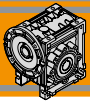
Dimensiones

Dimensions

CM 110 F..

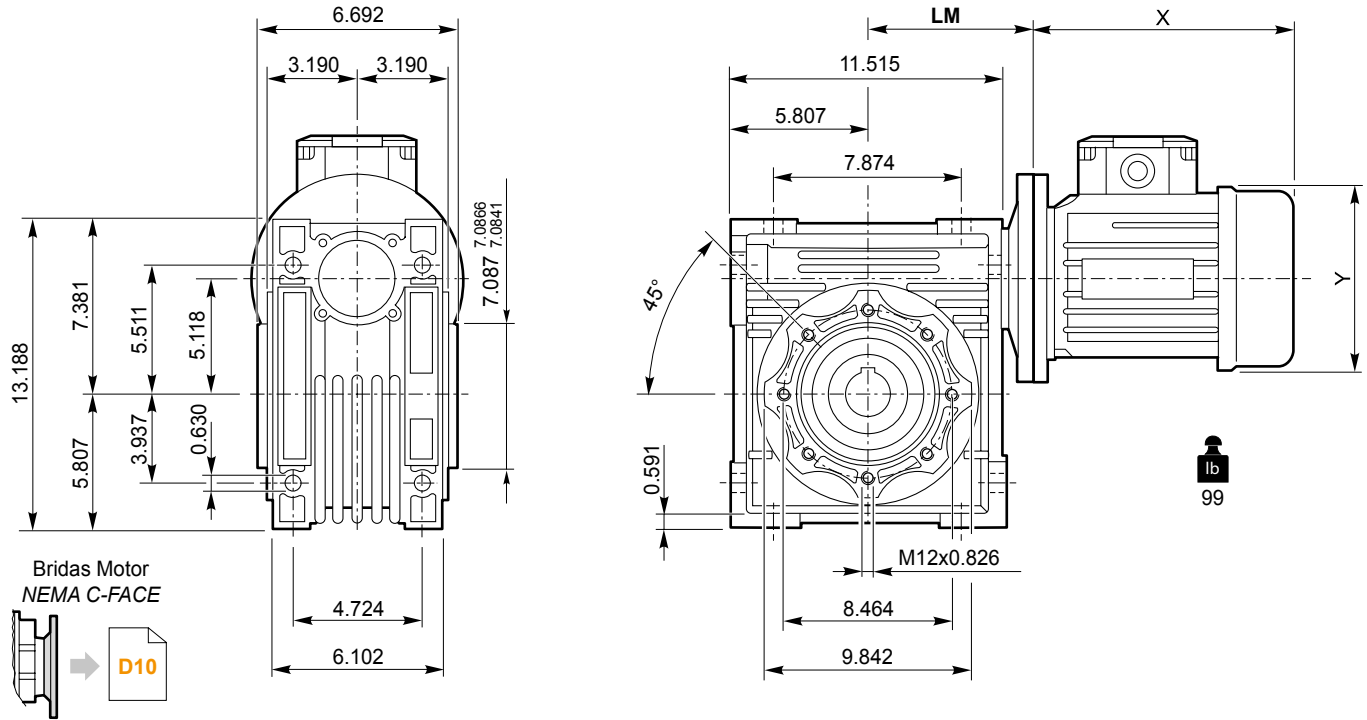
CM 110 F



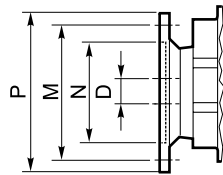
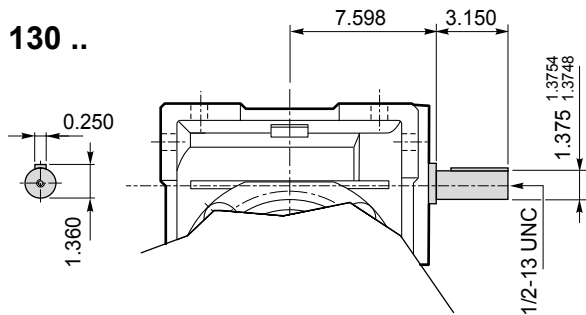


CM 130 U - CMIS 130 U

CM 130 U

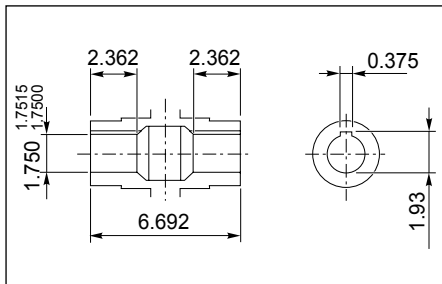


CMIS 130 ..

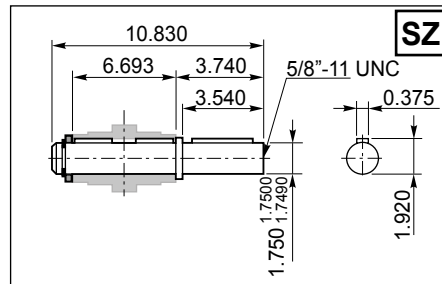


Brida Motor / Motor flange			
Dimensiones NEMA			
NEMA Dimensions			
	140 TC	180 TC	210 TC
N	4.5	8.5	
M	5.88	7.25	
P	6.5	9	
D	0.875	1.125	1.375
LM	7.598		

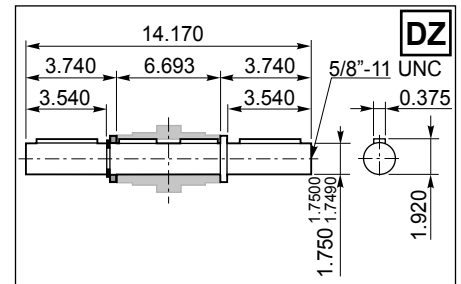
Eje de salida hueco / Hollow output shaft

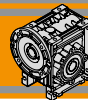


Eje de salida / Output shaft



Eje de salida / Output shaft



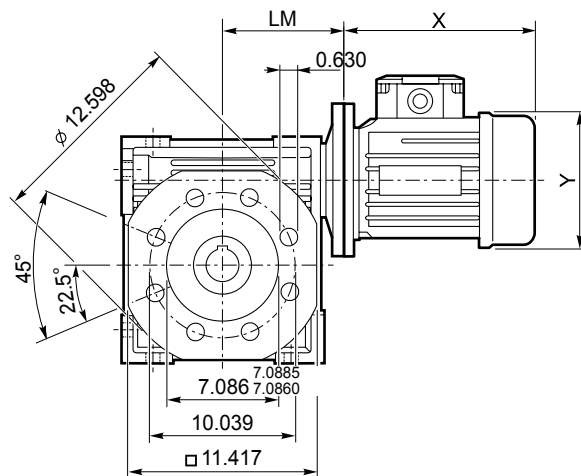
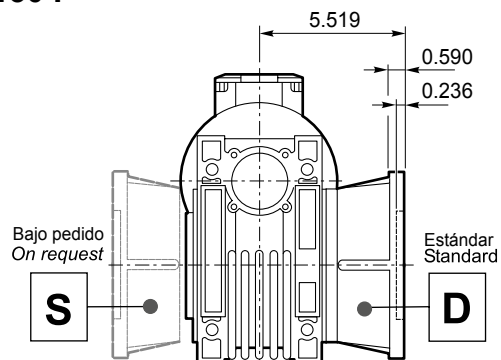


Dimensiones

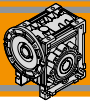
Dimensions

CM 130 F..

CM 130 F



CM

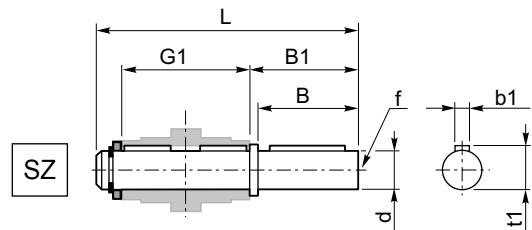
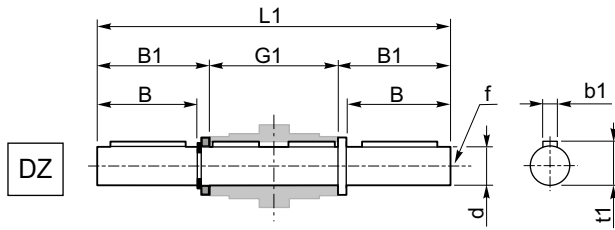


Accesorios

Accessories

Eje de salida simple y doble

Single and double output shaft

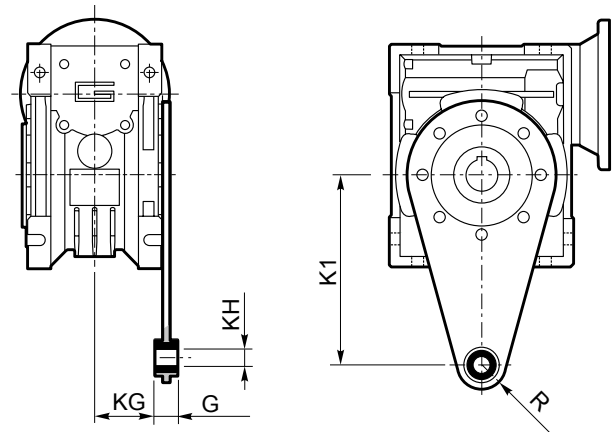


CM	d	B	B1	G1	L	L1	f	b1	t1
040	0.750 <small>0.7500 0.7430</small>	1.969	2.087	3.071	5.394	7.244	1/4"-20	0.188	0.830
050	1.000 <small>1.0000 0.9992</small>	1.969	2.106	3.622	6.004	7.835	3/8"-16	0.250	1.108
063	1.125 <small>1.1250 1.1242</small>	2.362	2.500	4.409	7.224	9.409	3/8"-16	0.250	1.230
075	1.250 <small>1.2500 1.2490</small>	2.756	2.894	4.724	7.933	10.512	1/2"-13	0.250	1.360
090	1.375 <small>1.3750 1.3741</small>	3.150	3.327	5.512	9.232	12.165	1/2"-13	0.312	1.509
110	1.625 <small>1.6250 1.6240</small>	3.543	3.720	6.102	10.217	13.543	5/8"-11	0.375	1.789
130	1.750 <small>1.7500 1.7490</small>	3.540	3.740	6.693	10.830	14.170	5/8"-11	0.375	1.920

Brazo de reacción

Torque arm

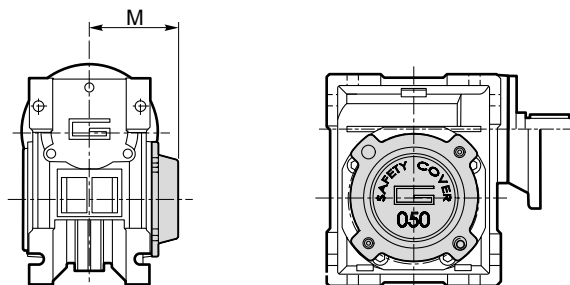
CM	K1	G	KG	KH	R
040	3.937	0.551	1.220	0.394	0.709
050	3.937	0.551	1.496	0.394	0.709
063	5.906	0.551	1.870	0.394	0.709
075	7.874	0.984	1.831	0.787	1.181
090	7.874	0.984	2.224	0.787	1.181
110	9.843	1.181	2.441	0.984	1.378
130	9.842	1.181	2.717	0.984	1.378





SC - Cubierta de seguridad - Safety Cover

CM	M
040	2.146
050	2.461
063	2.874
075	3.110
090	3.701
110	4.016
130	4.606



Архангельск (8182)63-90-72
Астана (7172)727-132
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Казань (843)206-01-48

Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41

Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78

Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93