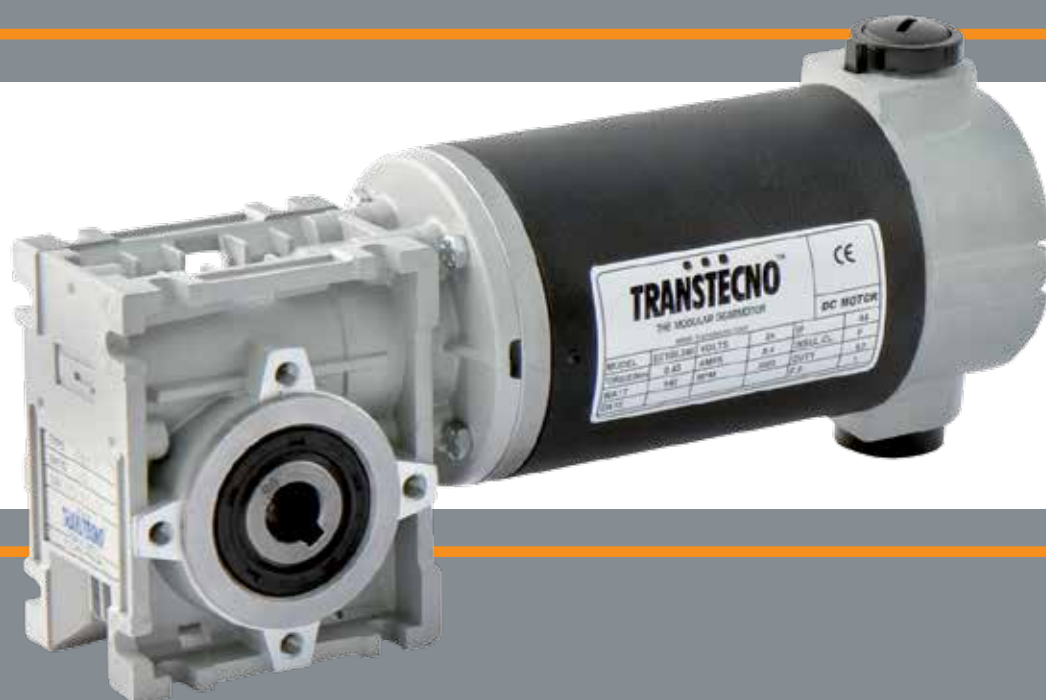
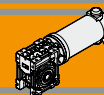


MOTORIDUTTORI C.C. A VITE SENZA FINE
PERMANENT MAGNETS D.C. WORMGEARMOTORS

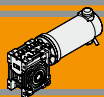




Indice	Index	Pag. Page
Caratteristiche tecniche	<i>Technical features</i>	N2
Designazione	<i>Classification</i>	N2
Simbologia	<i>Symbols</i>	N2
Lubrificazione	<i>Lubrication</i>	N3
Carichi radiali	<i>Radial loads</i>	N3
Dati di dentatura	<i>Toothing data</i>	N4
Rendimento	<i>Efficiency</i>	N4
Dati tecnici per servizio S2	<i>Technical data for S2 duty</i>	N5
Motori applicabili	<i>IEC Motor adapters</i>	N6
Dimensioni	<i>Dimensions</i>	N7
Opzioni	<i>Options</i>	N17
Accessori	<i>Accessories</i>	N17

Questa sezione annulla e sostituisce ogni precedente edizione o revisione. Qualora questa sezione non Vi sia giunta in distribuzione controllata, l'aggiornamento dei dati ivi contenuto non è assicurato. **In tal caso la versione più aggiornata è disponibile sul nostro sito internet www.transtecno.com**

*This section replaces any previous edition and revision. If you obtained this catalogue other than through controlled distribution channels, the most up to date content is not guaranteed. **In this case the latest version is available on our web site www.transtecno.com***

**ECM****MOTORIDUTTORI C.C. A VITE SENZA FINE**
PERMANENT MAGNETS D.C. WORMGEARMOTORS

Caratteristiche tecniche

Technical features

Le caratteristiche principali dei motoriduttori a corrente continua della serie ECM sono:

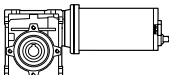
The main features of ECM D.C. gearmotor range are:

- Alimentazione in bassa tensione 12/24 Vcc
- Possibilità di montaggio encoder
- Potenze motore disponibili da 100 a 800W S2
- Magneti in ferrite
- Carcasce dei riduttori in pressofusione di alluminio
- Lubrificazione permanente con olio sintetico.

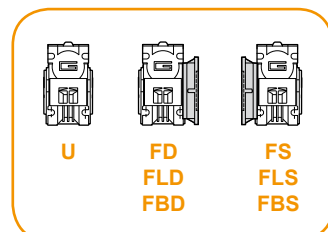
- Low voltage power supply 12/24 Vdc
- Suitable for encoder assembly
- Motor power ratings available from 100 to 800W S2
- Ferrite magnets
- Die-cast aluminum housing
- Permanent synthetic oil long-life lubrication.

Designazione

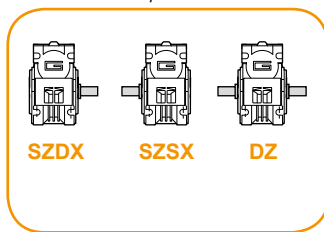
Classification

MOTORIDUTTORE / GEARMOTOR														
ECM	070/026						U	10	SZDX	BR SX	90	240	VS	
Tipo Type	Grandezza Size						Versione Riduttore Gearbox Version	Rapporto Ratio	Albero di uscita Output shaft	Braccio di reazione Torque arm	Angolo Angle	Versione Motore Motor Version	Opzioni Options	
	ECM	070/026 070/030	100/026	180/026	250/030	350/030	600/040	U FD FS FLD FLS FBD FBS	Vedere tabella See tables	SZDX SZSX DZ	BRDX BR SX	0°	120	VS
			100/030	180/030	250/040	350/040	600/050					90°	240	
			100/040	180/040	250/050	350/050	600/063					180°	240	
				180/050								270°	24E	

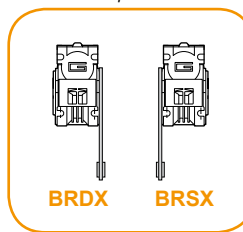
Versione Riduttore
Gearbox Version



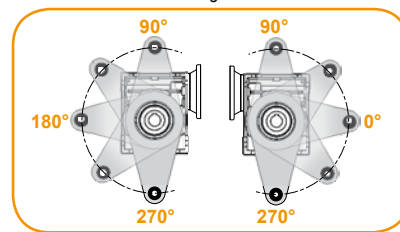
Albero di uscita
Output shaft



Braccio di reazione
Torque arm



Angolo
Angle

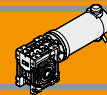


Simbologia

Symbols

n_1	[min ⁻¹]	Velocità in ingresso / Input speed
n_2	[min ⁻¹]	Velocità in uscita / Output speed
i		Rapporto di riduzione / Ratio
P_1	[kW]	Potenza in entrata / Input power
M_2	[Nm]	Coppia in uscita in funzione di P_1 / Output torque referred to P_1
sf		Fattore di servizio / Service factor

R_d	%	Rendimento dinamico / Dynamic efficiency
A_2	[N]	Carico assiale ammissibile in uscita / Permitted output axial load
R_s	%	Rendimento statico / Static efficiency
R_2	[N]	Carico radiale ammissibile in uscita / Permitted output radial load
Z		Numero di principi della vite / Worm starts
β		Angolo d'elica / Helix angle



Lubrificazione

Lubrication

I riduttori a vite senza fine della serie CM sono lubrificati a vita con olio sintetico di viscosità 320 e possono essere installati in qualunque posizione di montaggio.

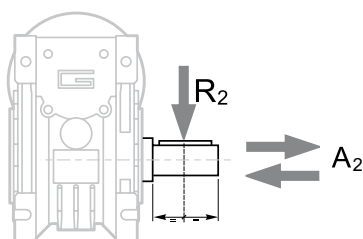
Permanent synthetic oil long-life lubrication allow to use CM wormgearbox range in all mounting position.

Quantità di olio (litri) / <i>Oil quantity (litres)</i>						
	B3	B8	B6	B7	V5	V6
CM026	0.02					
CM030	0.03					
CM040	0.07					
CM050	0.10					
CM063	0.25					

Lubrificazione
a vita
Life lubrication

Carichi radiali

Radial loads

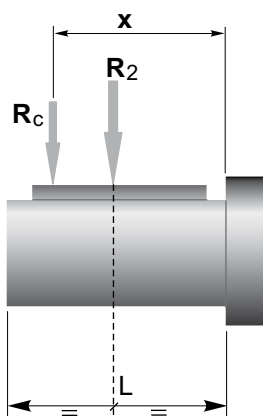


$$A_2 = R_2 \times 0.2$$

n ₂ [min ⁻¹]	R ₂ [N]				
	CM026	CM030	CM040	CM050	CM063
187	400	674	1264	1770	2445
140	490	743	1392	1949	2692
93	580	851	1596	2234	3085
70	610	936	1754	2456	3392
56	610	1008	1890	2646	3654
47	610	1069	2004	2805	3874
35	610	1179	2210	3095	4273
28	610	1270	2381	3334	4603
23	610	1356	2542	3559	4915
18	610	1471	2759	3862	5334
14	610	1600	3000	4200	5800

Quando il carico radiale risultante non è applicato sulla mezzes-
 ria dell'albero occorre calcolare quello effettivo con la seguente
 formula:

*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:*

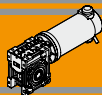


$$R_c = \frac{R_2 \cdot a}{(b + x)} \leq R_{2MAX}$$

$$R \leq R_c$$

a, b = valori riportati nella tabella
a, b = values given in the table

	CM				
	026	030	040	050	063
a	56	65	84	101	120
b	43	50	64	76	95
R _{2MAX}	610	1600	3000	4200	5800



Dati di dentatura

Toothing data

	Dati della coppia vite-corona Worm wheel data	Rapporto / Ratio											
		5	7.5	10	15	20	25	30	40	50	60	80	100
CM026	Z	6	4	3	2	2		1	1	1	1		
	β	34° 35'	24° 41'	19° 1'	12° 57'	10° 30'		6° 33'	5° 17'	4° 26'	3° 49'		
CM030	Z	6	4	3	2	2	2	1	1	1	1	1	1
	β	27° 4'	24° 28'	18° 50'	12° 49'	10° 23'	8° 43'	6° 29'	5° 14'	4° 23'	3° 46'	2° 57'	2° 25'
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	6	4	3	2	2	2	1	1	1	1	1	1
	β	33° 37'	23° 54'	18° 23'	12° 29'	10° 6'	8° 28'	6° 19'	5° 5'	4° 15'	3° 39'	2° 51'	2° 20'
CM063	Z	6	4	3	2	2	2	1	1	1	1	1	1
	β	34° 23'	24° 31'	18° 53'	12° 50'	10° 24'	8° 44'	6° 30'	5° 14'	4° 23'	3° 47'	2° 57'	2° 25'

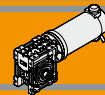
Rendimento

Efficiency

	n_1 [min ⁻¹]	Rendimento Efficiency	Rapporto / Ratio											
			5	7.5	10	15	20	25	30	40	50	60	80	100
CM026	2800	Rd	89	87	85	83	80		73	68	64	60		
	1400		87	84	83	78	74		66	61	57	53		
	900		84	83	80	75	71		61	57	52	48		
		Rs	72	71	68	61	56		46	41	36	34		
CM030	2800	Rd	89	88	86	84	81	78	74	70	65	62	57	52
	1400		86	85	84	79	75	72	67	62	58	55	48	43
	900		84	83	81	75	71	68	62	58	53	49	43	39
		Rs	72	67	63	55	50	43	39	35	31	27	23	21
CM040	2800	Rd	90	89	87	84	83	80	77	73	69	66	60	56
	1400		88	86	84	81	78	74	70	65	60	58	52	46
	900		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	2800	Rd	91	90	88	86	84	82	78	74	71	68	62	58
	1400		89	87	85	82	79	76	72	67	63	60	54	49
	900		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	2800	Rd	91	90	88	86	84	83	79	76	73	70	65	60
	1400		90	88	86	84	81	78	75	70	66	63	57	52
	900		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

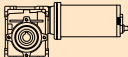


Rendimento teorico del riduttore dopo il rodaggio
Theoretical efficiency of the gearbox after the first running period



Dati tecnici per servizio S2

Technical data for S2 duty

P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version
-----------------------	--	------------------------	----	---	---	----------------------------------

100

(3000 min ⁻¹)	600	1.4	7.1	5.00	ECM070/026	120/240
	400	2.1	5.3	7.50		
	300	2.7	4.1	10.00		
	200	4.0	2.8	15.00		
	150	5.1	2.2	20.00		
	100	7.0	1.7	30.00		
	75	8.7	1.3	40.00		
	60	10	1.0	50.00		
	50	11	0.8	60.00		
	600	1.4	9.2	5.00	ECM070/030	
	400	2.1	7.1	7.50		
	300	2.7	5.8	10.00		
	200	4.0	4.0	15.00		
	150	5.2	2.7	20.00		
	120	6.2	2.4	25.00		
	100	7.1	2.5	30.00		
	75	8.9	1.8	40.00		
	60	10	1.4	50.00		
	50	12	1.2	60.00		
	38	15	0.8	80.00		
	30	17	0.7	100.00		

140

(3000 min ⁻¹)	600	2.0	5.0	5.00	ECM100/026	120/240/24E
	400	2.9	3.8	7.50		
	300	3.8	2.9	10.00		
	200	5.5	2.0	15.00		
	150	7.1	1.5	20.00		
	100	10	1.2	30.00		
	75	12	0.9	40.00		
	60	14	0.7	50.00		
	50	13	0.7	60.00		
	200	5.6	2.8	15.00	ECM100/030	
	150	7.2	1.9	20.00		
	120	8.7	1.7	25.00		
	100	10	1.8	30.00		
	75	12	1.3	40.00		
	60	14	1.0	50.00		
	50	17	0.8	60.00		
	38	20	0.6	80.00		
	30	16	0.7	100.00		
	100	10	3.7	30.00	ECM100/040	
	75	13	2.6	40.00		
	60	15	2.1	50.00		
	50	18	1.6	60.00		
	38	21	1.3	80.00		
	30	25	1.0	100.00		

250

(3000 min ⁻¹)	600	3.5	2.8	5.00	ECM180/026	120/240
	400	5.2	2.1	7.50		
	300	6.8	1.6	10.00		
	200	10	1.1	15.00		
	150	13	0.9	20.00		
	100	17	0.7	30.00		
	75	16	0.7	40.00		
	60	14	0.7	50.00		
	50	13	0.7	60.00		
	600	3.5	3.7	5.00	ECM180/030	120/240/24E
	400	5.3	2.9	7.50		
	300	6.8	2.3	10.00		
	200	10	1.6	15.00		
	150	13	1.1	20.00		
	120	16	1.0	25.00		
	100	18	1.0	30.00		
	75	22	0.7	40.00		
	60	21	0.7	50.00		
	50	20	0.7	60.00		
	38	17	0.7	80.00		
	30	16	0.7	100.00		

250

(3000 min ⁻¹)	200	10	3.5	15.00	ECM180/040	120/240/24E
	150	13	2.3	20.00		
	120	16	1.8	25.00		
	100	18	2.1	30.00		
	75	23	1.5	40.00		
	60	27	1.2	50.00		
	50	32	0.9	60.00		
	38	38	0.7	80.00		
	30	34	0.7	100.00		
	75	24	2.5	40.00	ECM180/050	120/240/24E
	60	28	2.0	50.00		
	50	32	1.6	60.00		
	38	39	1.2	80.00		
	30	46	0.9	100.00		

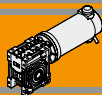
350

(3000 min ⁻¹)	600	5.0	2.6	5	ECM250/030	120/240
	400	7.4	2.0	7.5		
	300	10	1.7	10		
	200	14	1.1	15		
	150	18	0.8	20		
	120	22	0.7	25		
	100	25	0.7	30		
	75	22	0.7	40		
	60	21	0.7	50		
	200	14	2.5	15	ECM250/040	120/240
	150	18	1.7	20		
	120	22	1.3	25		
	100	26	1.5	30		
	75	33	1.0	40		
	60	38	0.8	50		
	50	44	0.7	60		
	37.5	38	0.7	80		
	30	35	0.7	100		
	150	19	2.9	20	ECM250/050	120/240
	120	23	2.2	25		
	100	26	2.6	30		
	75	33	1.8	40		
	60	40	1.4	50		
	50	45	1.1	60		
	37.5	55	0.8	80		
	30	65	0.7	100		

500

(3000 min ⁻¹)	600	7.1	1.8	5.00	ECM350/030	120/240
	400	11	1.4	7.50		
	300	14	1.2	10.00		
	200	20	0.8	15.00		
	150	20	0.7	20.00		
	120	21	0.7	25.00		
	100	26	0.7	30.00		
	75	23	0.7	40.00		
	60	21	0.7	50.00		
	600	7.2	4.0	5.00	ECM350/040	120/240
	400	11	2.9	7.50		
	300	14	2.4	10.00		
	200	20	1.7	15.00		
	150	26	1.2	20.00		
	120	32	0.9	25.00		
	100	37	1.0	30.00		
	75	46	0.7	40.00		
	60	46	0.7	50.00		
	50	41	0.7	60.00		
	38	39	0.7	80.00		
	30	34	0.7	100.00		
	200	21	3.0	15.00	ECM350/050	120/240
	150	27	2.1	20.00		
	120	33	1.6	25.00		
	100	37	1.8	30.00		
	75	47	1.3	40.00		
	60	57	1.0	50.00		
	50	65	0.8	60.00		
	38	66	0.7	80.00		
	30	61	0.7	100.00		

ECM

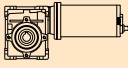


ECM

MOTORIDUTTORI C.C. A VITE SENZA FINE
PERMANENT MAGNETS D.C. WORMGEARMOTORS

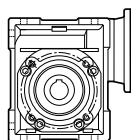
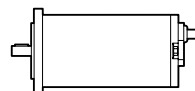
Dati tecnici per servizio S2

Technical data for S2 duty

P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version
800						
(3000 min ⁻¹)	600	11	2.5	5.00	ECM600/040	120/240
	400	17	1.8	7.50		
	300	22	1.5	10.00		
	200	32	1.1	15.00		
	150	42	0.7	20.00		
	120	40	0.7	25.00		
	100	54	0.7	30.00		
	75	49	0.7	40.00	ECM600/050	120/240
	600	11	4.9	5.00		
	400	17	3.3	7.50		
	300	22	2.7	10.00		
	200	33	1.9	15.00		
	150	43	1.3	20.00		
	120	52	1.0	25.00		
	100	60	1.1	30.00		
	75	75	0.8	40.00		
	60	81	0.7	50.00		
	50	74	0.7	60.00		
	38	66	0.7	80.00		
	200	33	3.5	15.00	ECM600/063	120/240
	150	43	2.4	20.00		
	120	53	1.8	25.00		
	100	60	2.1	30.00		
	75	77	1.4	40.00		
	60	93	1.1	50.00		
	50	107	0.9	60.00		
	38	132	0.7	80.00		
	30	114	0.7	100.00		

Motori applicabili

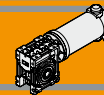
IEC Motor adapters



		EC						
		070.120 070.240	100.120 100.240 100.24E	180.120 180.240	180.24E	250.120 250.240	350.120 350.240	600.120 600.240
CM	026	5-60	5-60	5-60				
	030	5-100	5-100	5-100	5-50	5-50	5-50	
	040		5-100	5-100	5-100	5-100	5-100	5-40
	050			40-100	5-100	5-100	15-100	5-80
	063							5-100

5-100

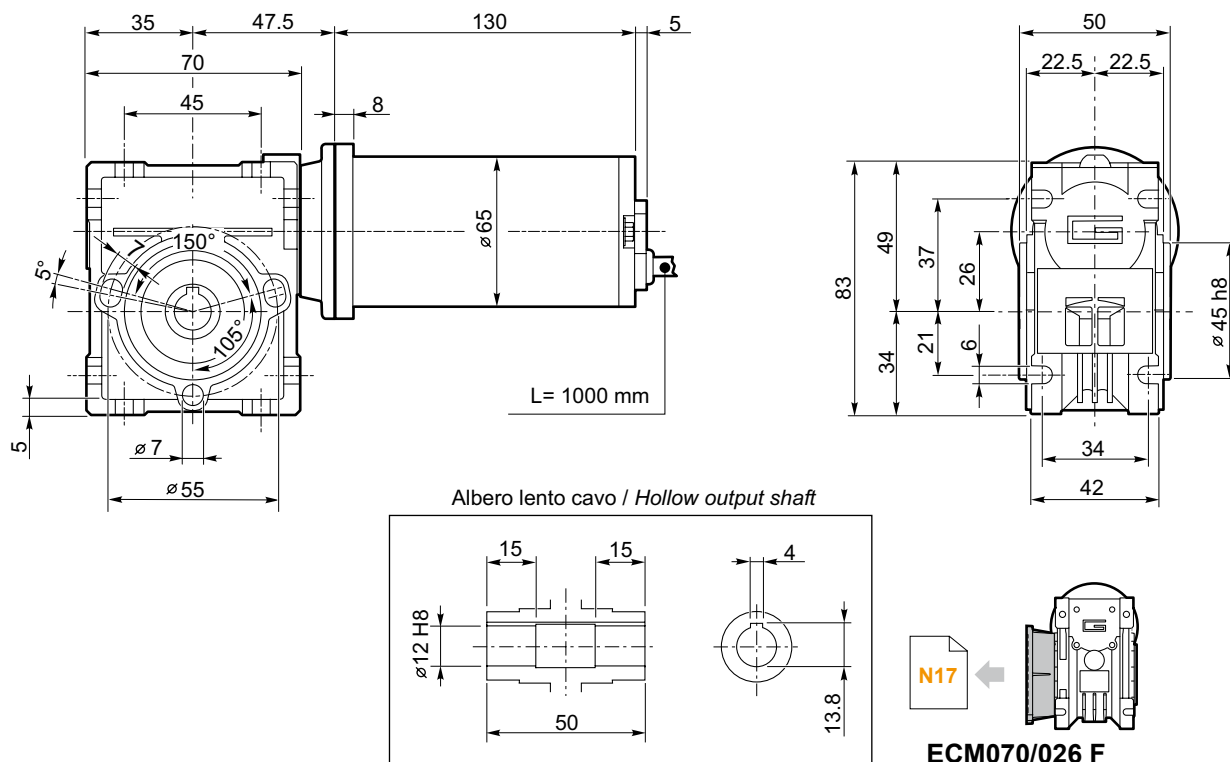
Rapporti di riduzione i
Ratio i



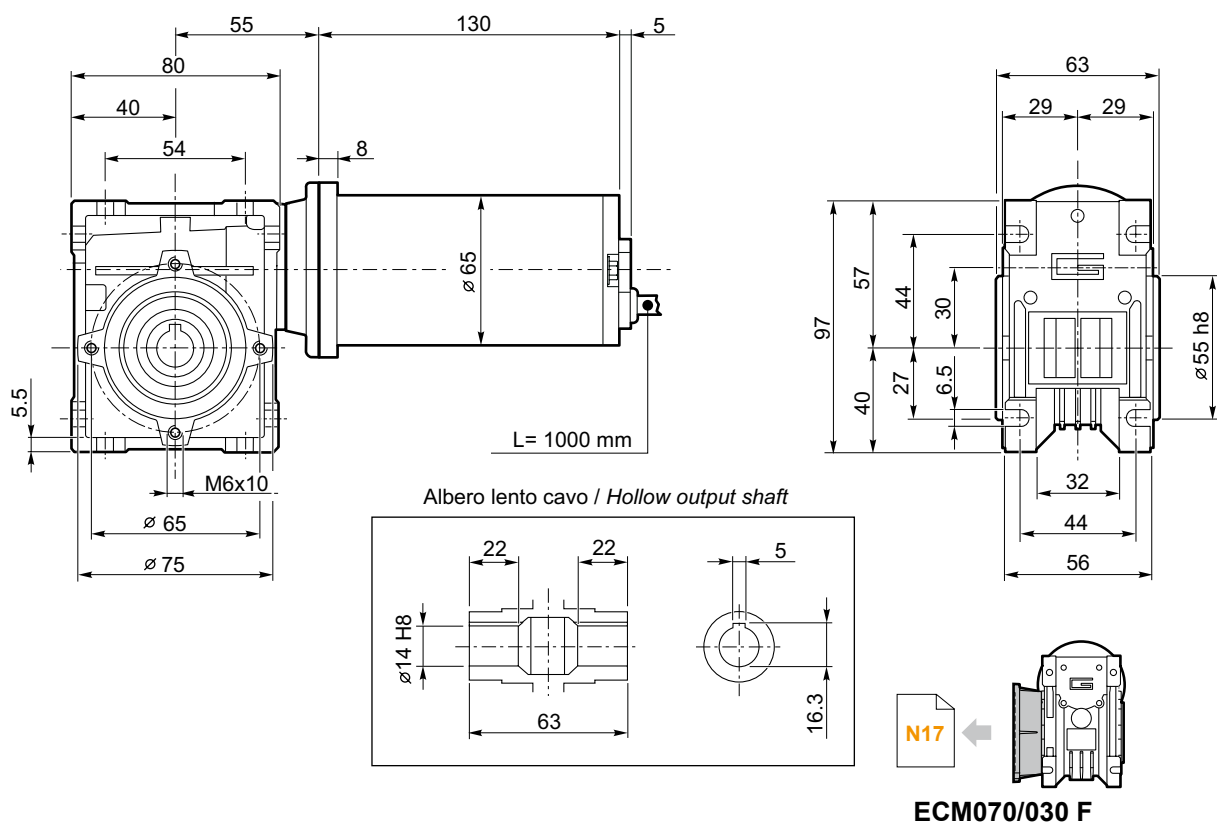
Dimensioni

Dimensions

ECM070/026 U

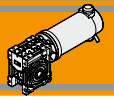


ECM070/030 U





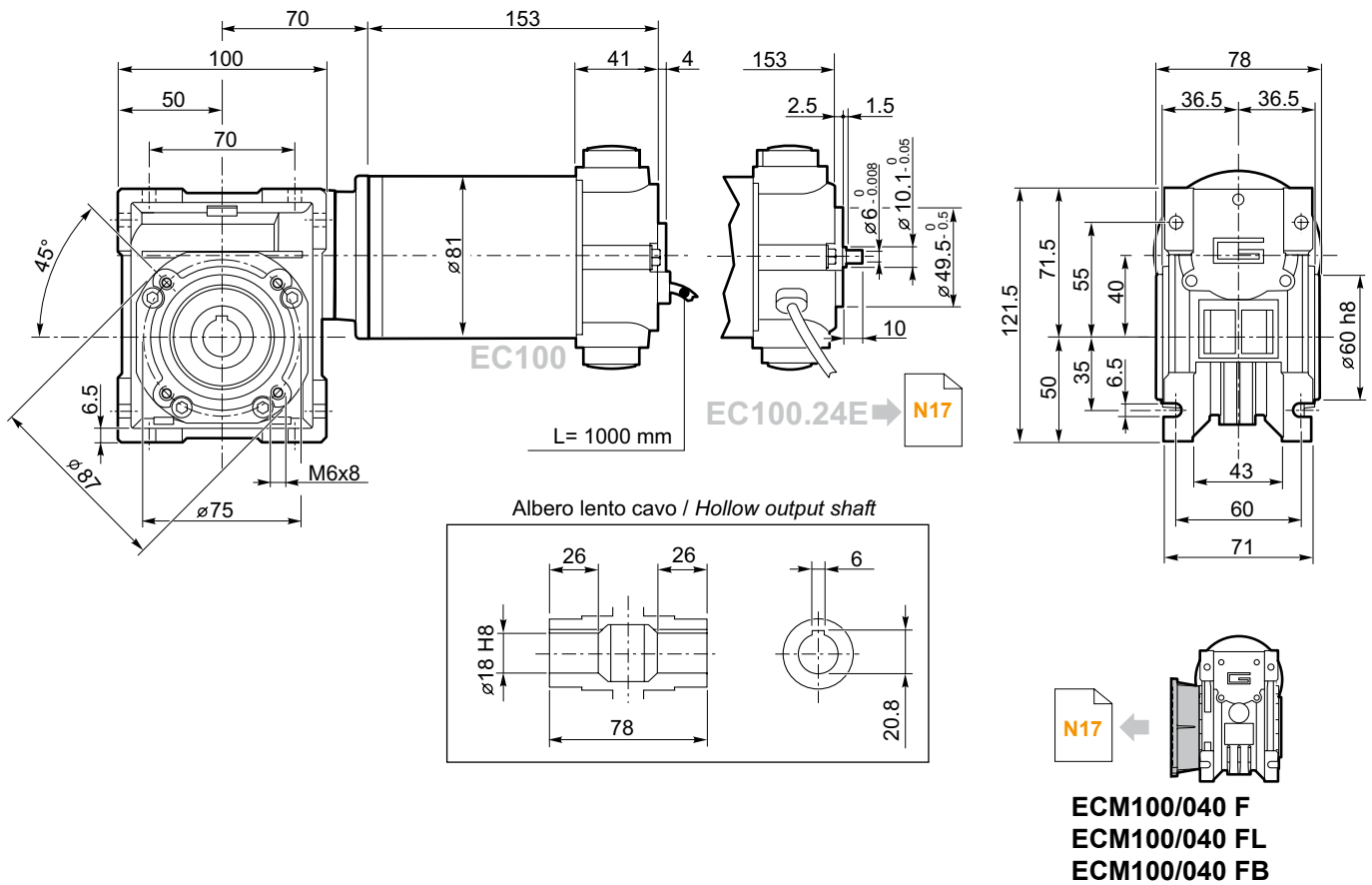
Dimensions

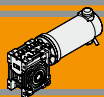


Dimensioni

Dimensions

ECM100/040 U

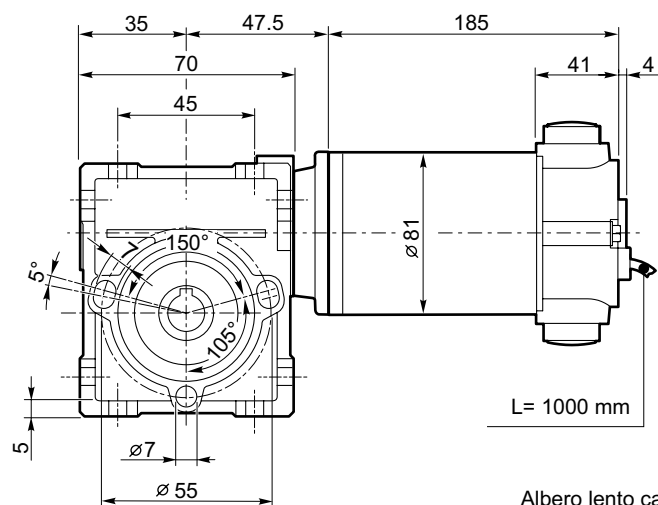




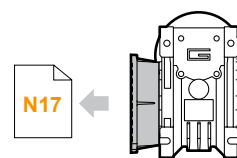
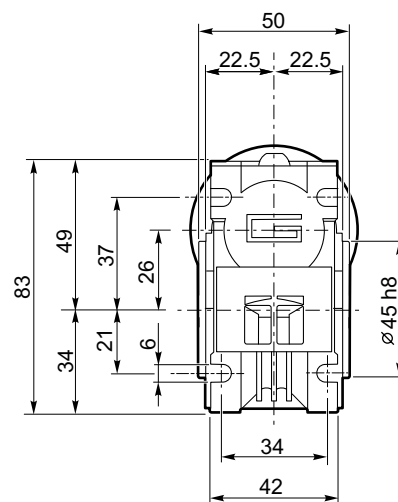
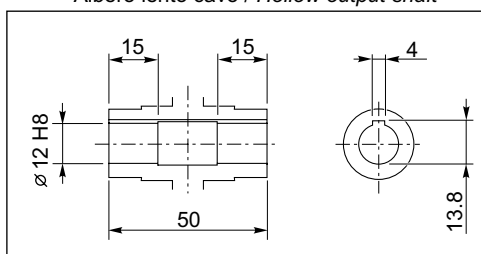
Dimensioni

Dimensions

ECM180/026 U

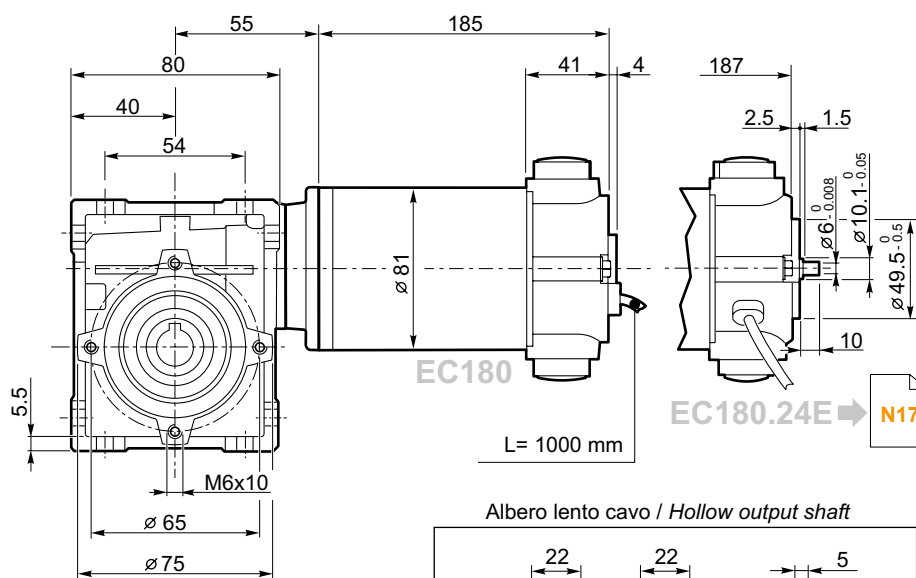


Albero lento cavo / Hollow output shaft

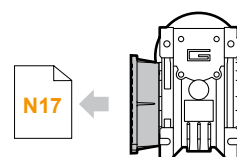
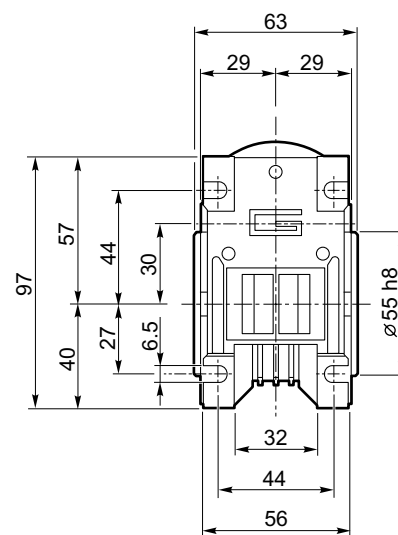
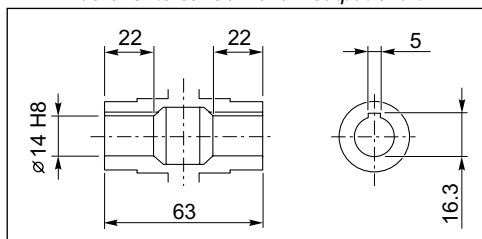


ECM180/026 F

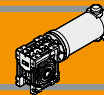
ECM180/030 U



Albero lento cavo / Hollow output shaft



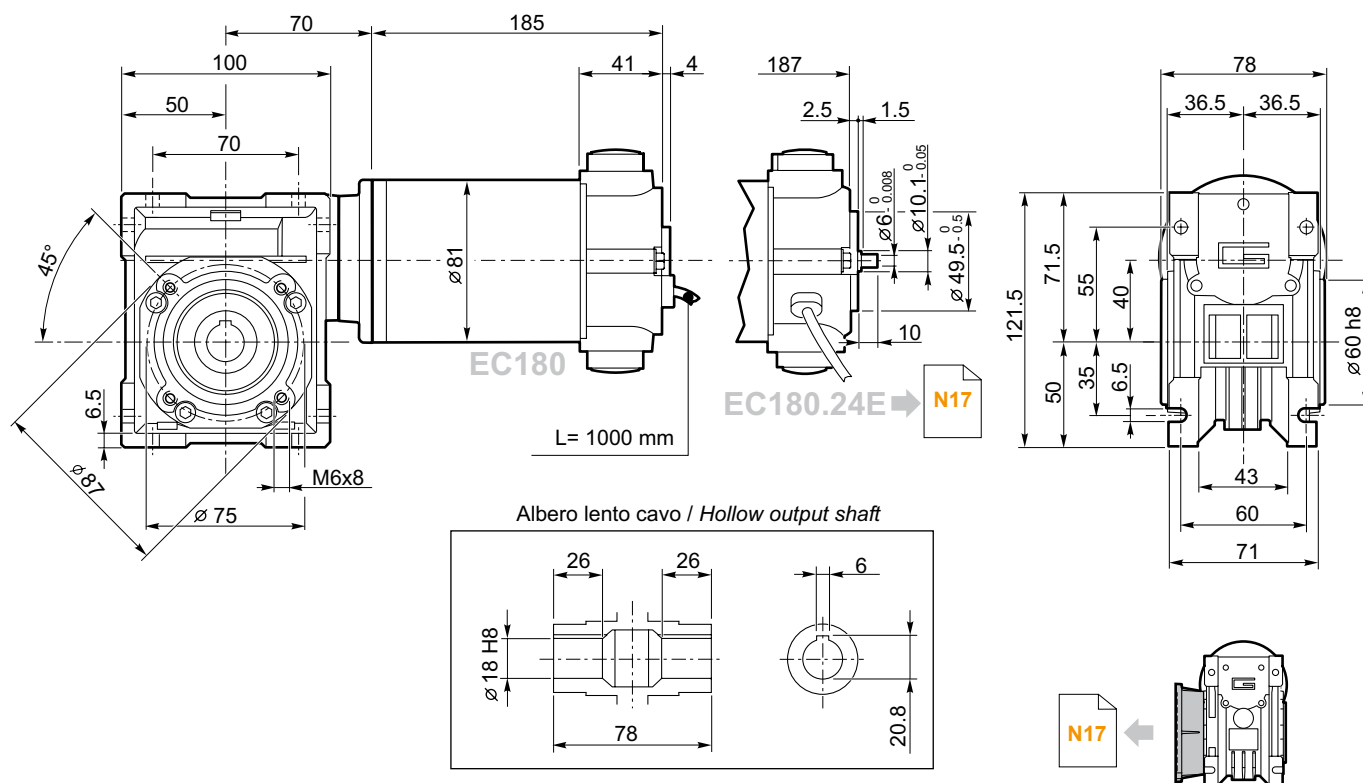
ECM180/030 F



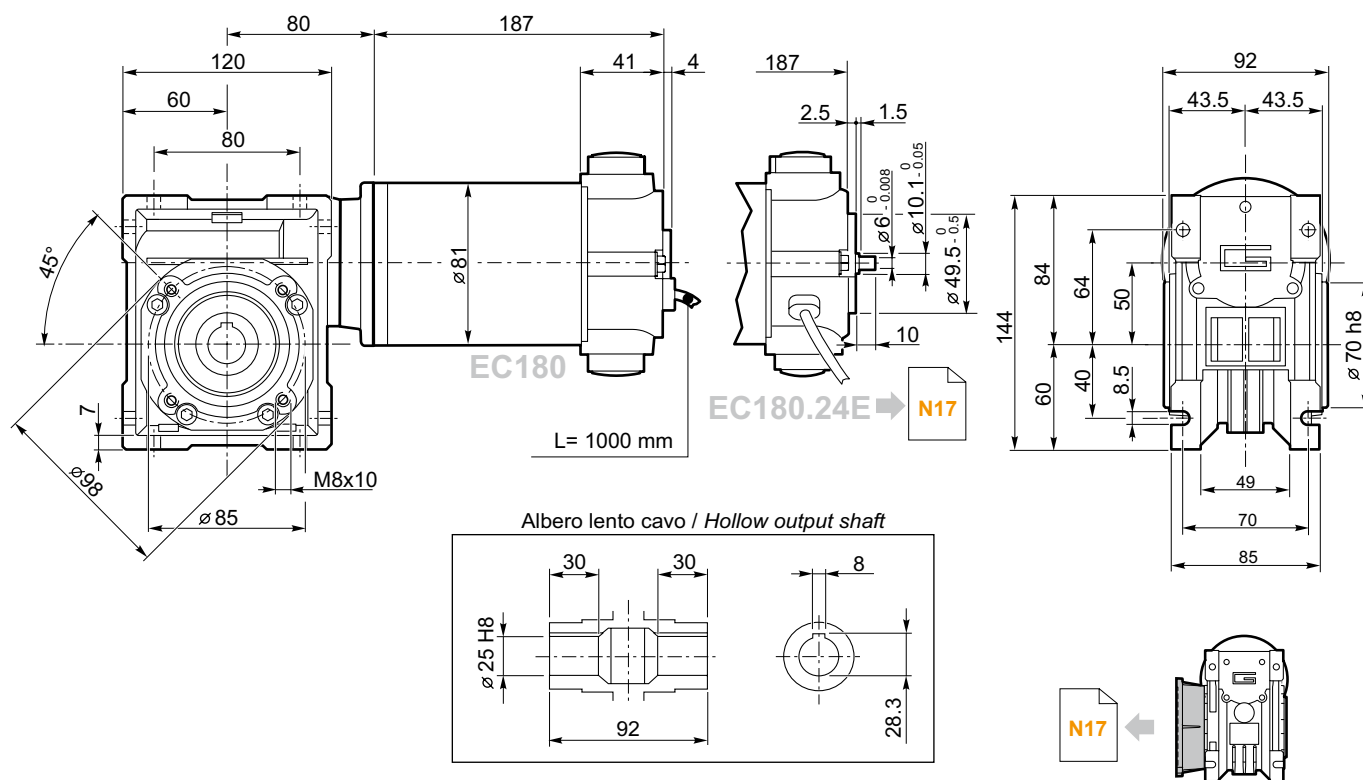
Dimensioni

Dimensions

ECM180/040 U



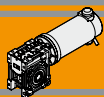
ECM180/050 U



ECM180/040 F
ECM180/040 FL
ECM180/040 FB

ECM180/050 F
ECM180/050 FL
ECM180/050 FB

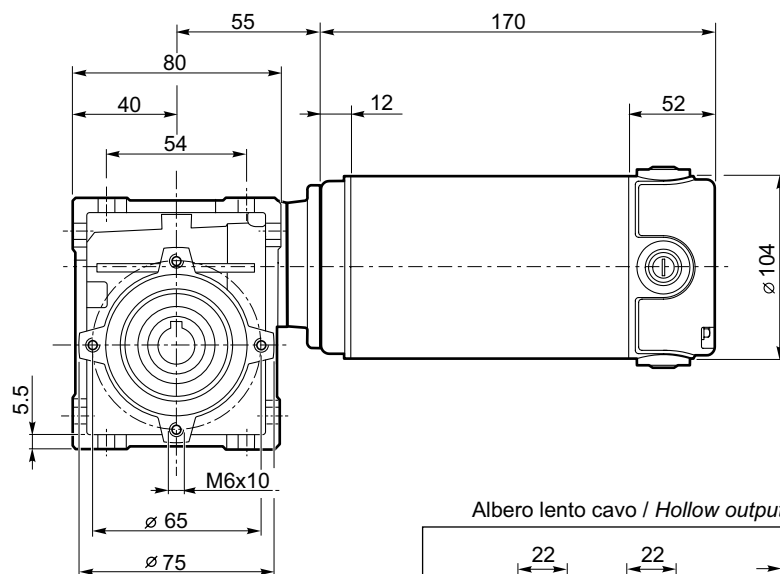
ECM



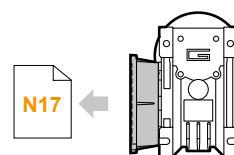
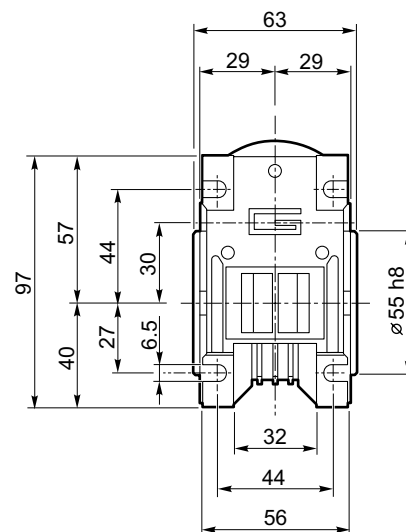
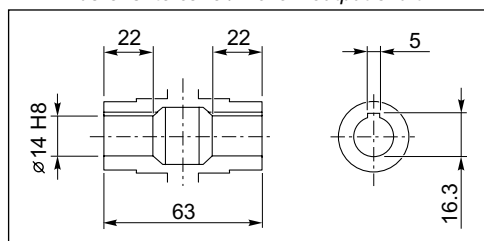
Dimensioni

Dimensions

ECM250/030 U

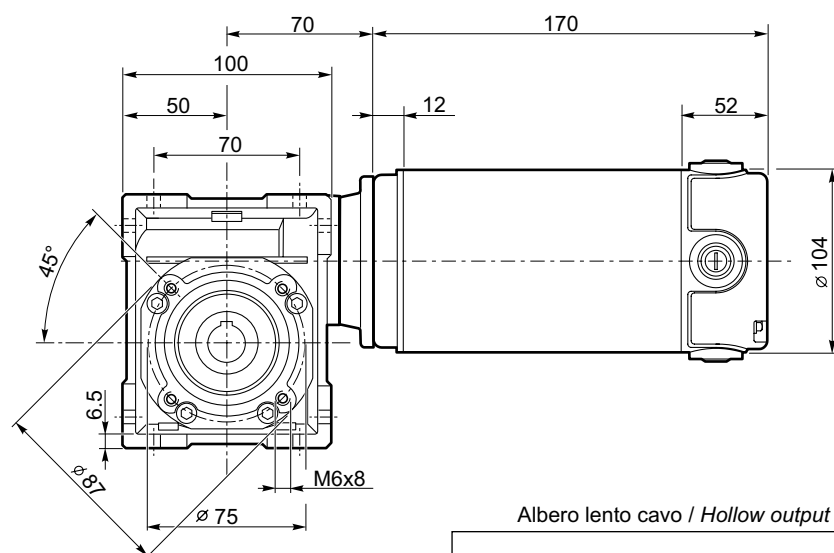


Albero lento cavo / Hollow output shaft

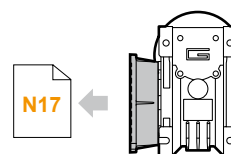
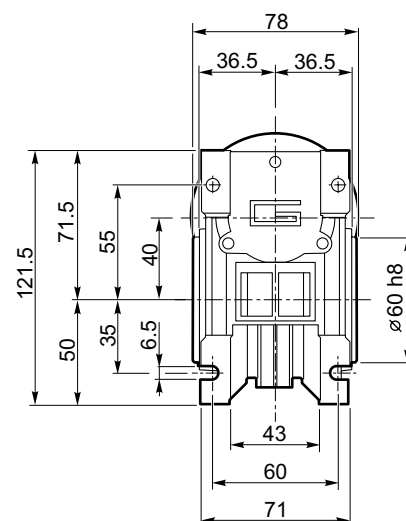
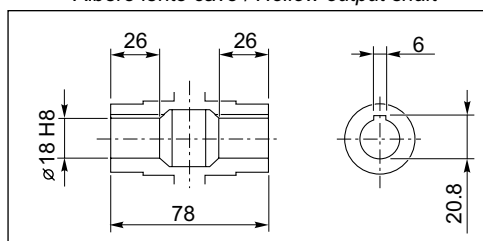


ECM250/030 F

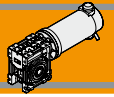
ECM250/040 U



Albero lento cavo / Hollow output shaft



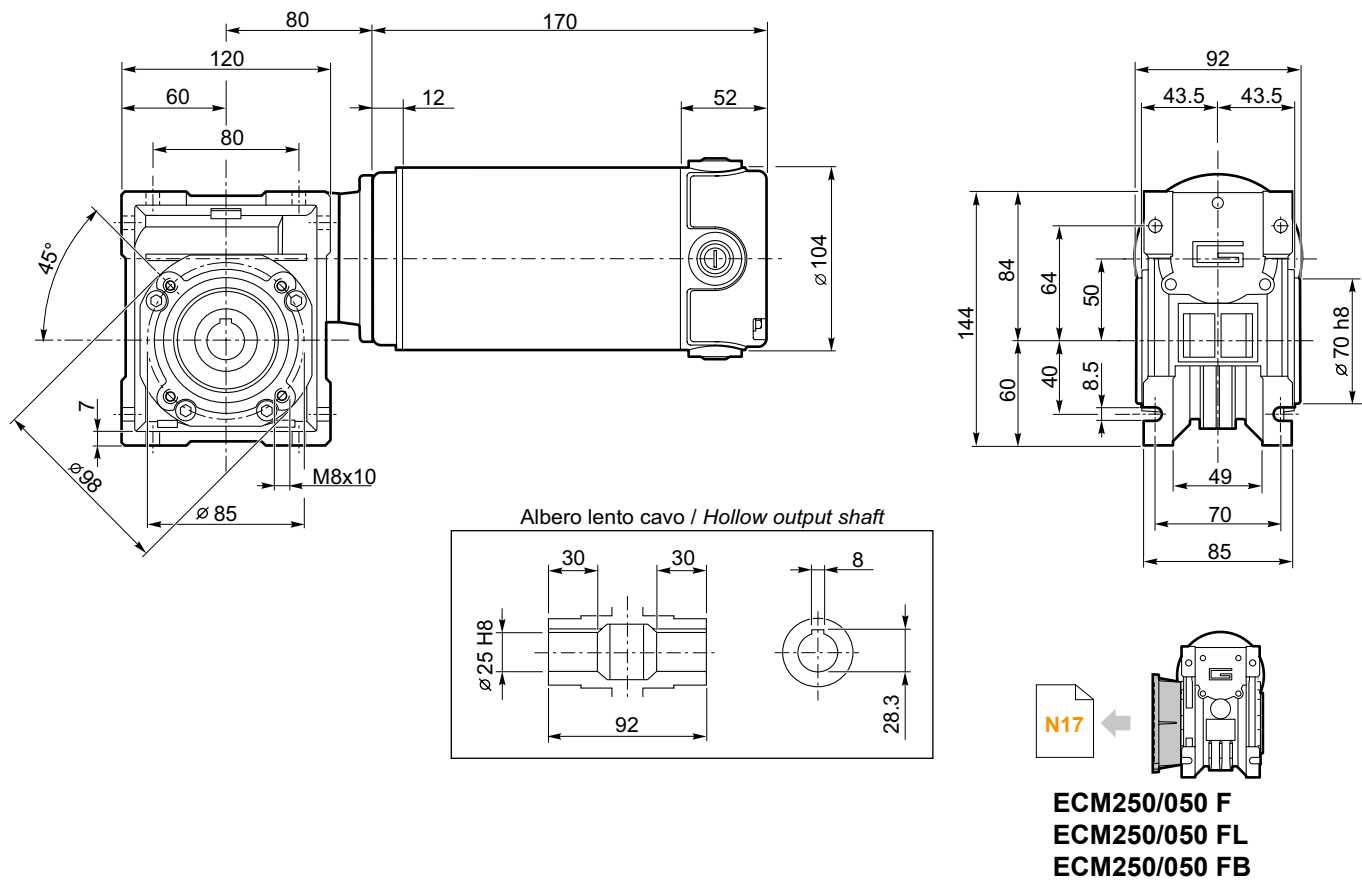
ECM250/040 F
ECM250/040 FL
ECM250/040 FB

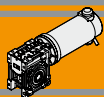


Dimensioni

Dimensions

ECM250/050 U

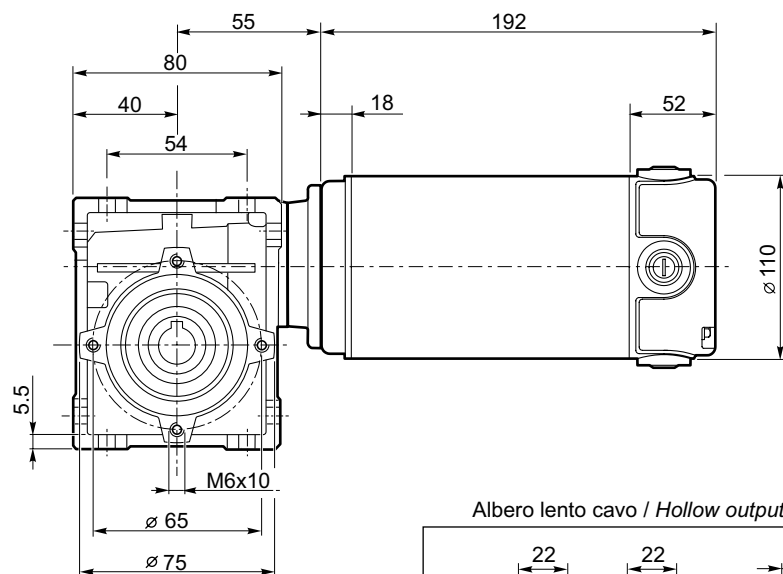




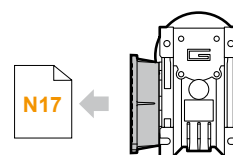
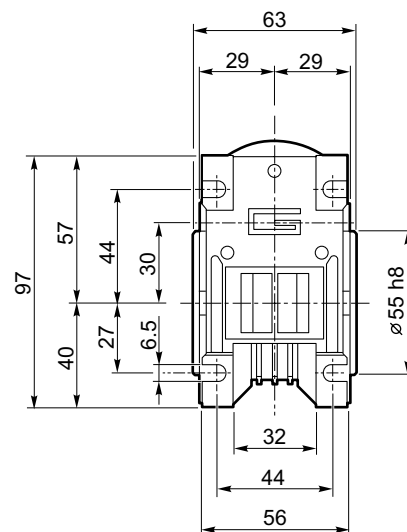
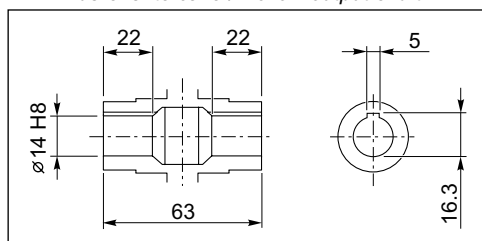
Dimensioni

Dimensions

ECM350/030 U

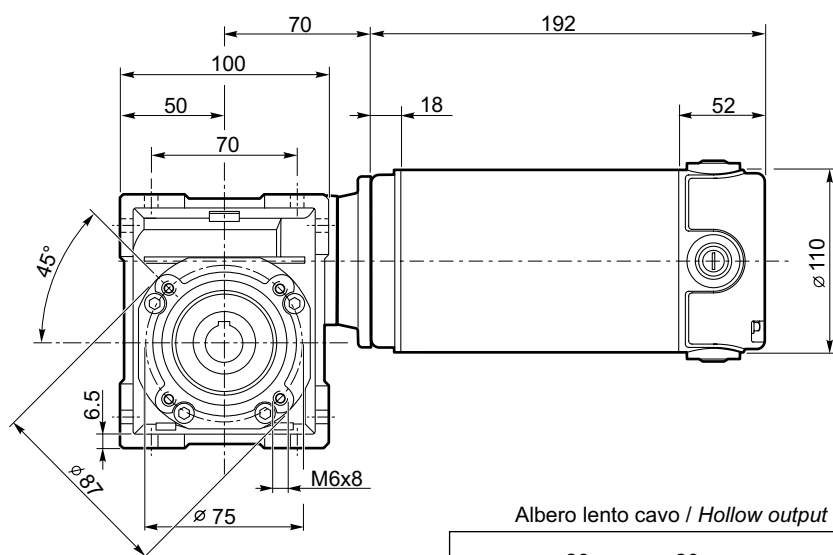


Albero lento cavo / Hollow output shaft

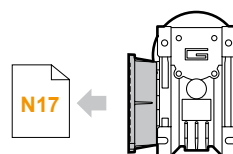
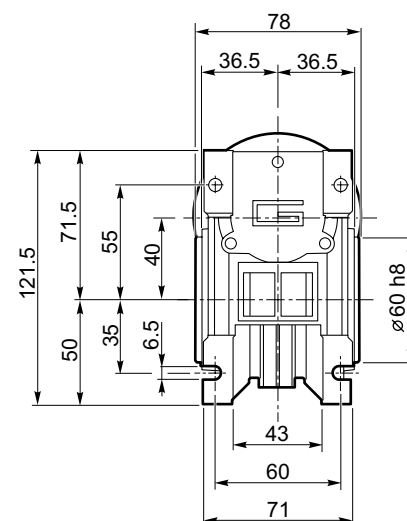
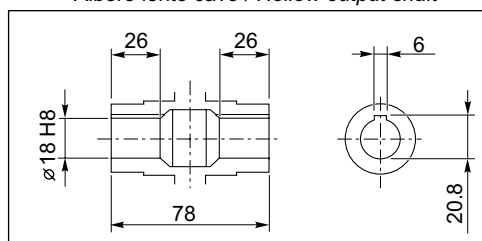


ECM350/030 F

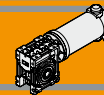
ECM350/040 U



Albero lento cavo / Hollow output shaft



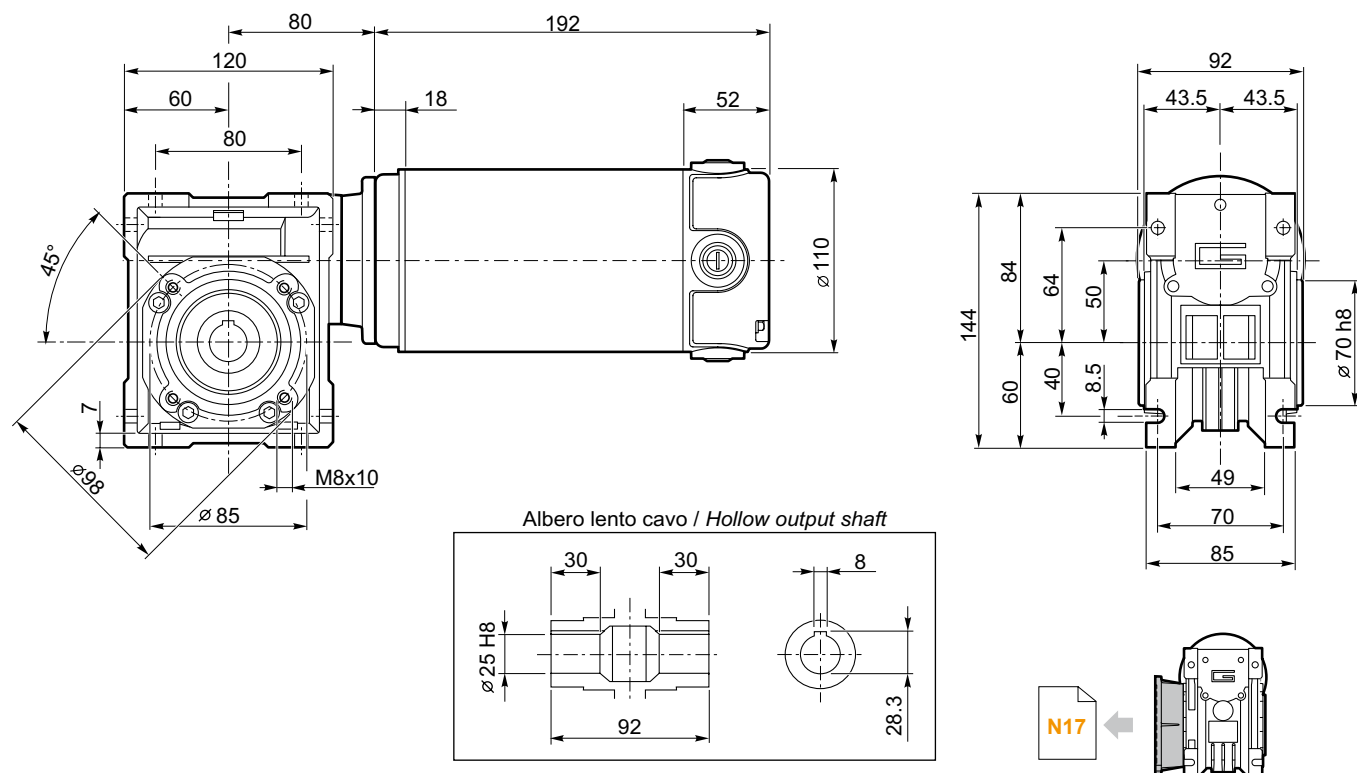
**ECM350/040 F
ECM350/040 FL
ECM350/040 FB**



Dimensioni

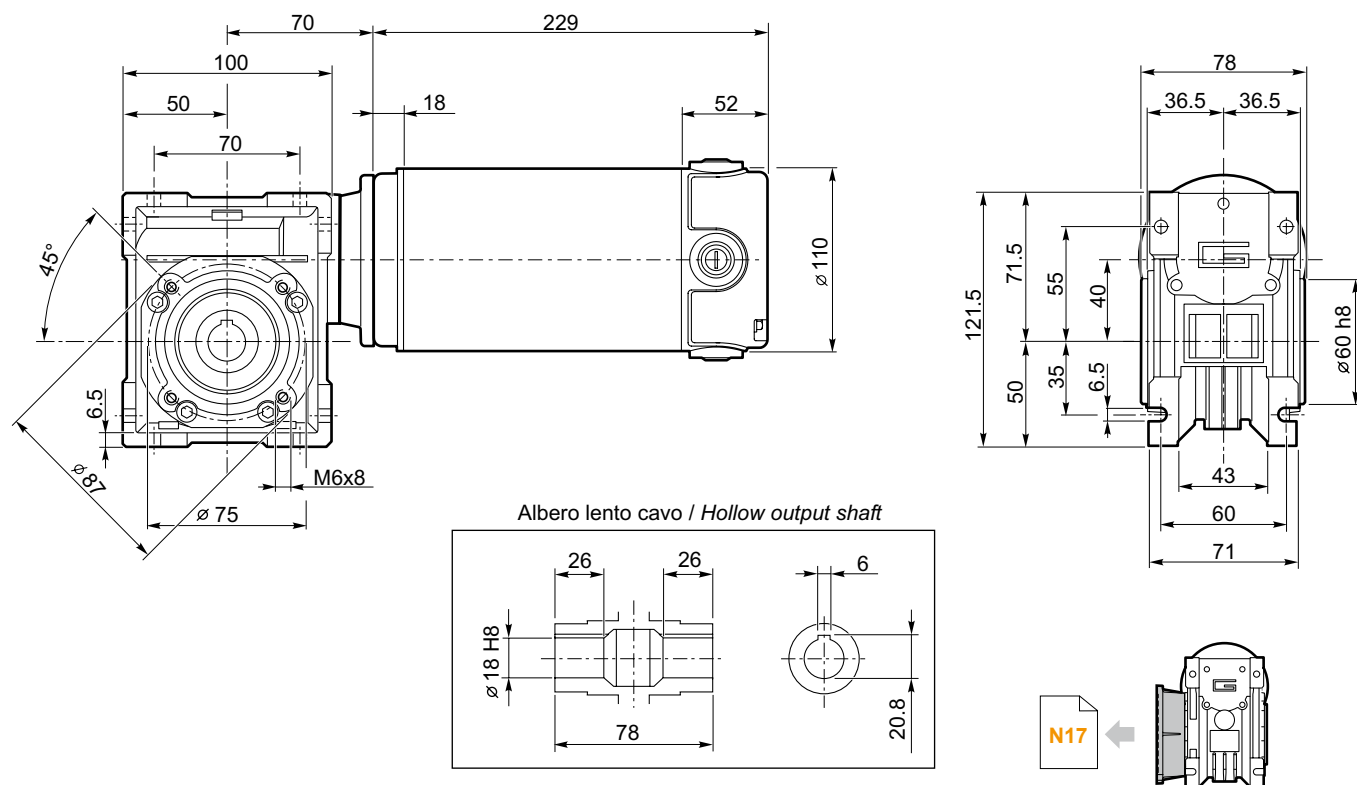
Dimensions

ECM350/050 U



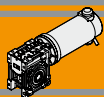
ECM350/050 F
ECM350/050 FL
ECM350/050 FB

ECM600/040 U



ECM600/040 F
ECM600/040 FL
ECM600/040 FB

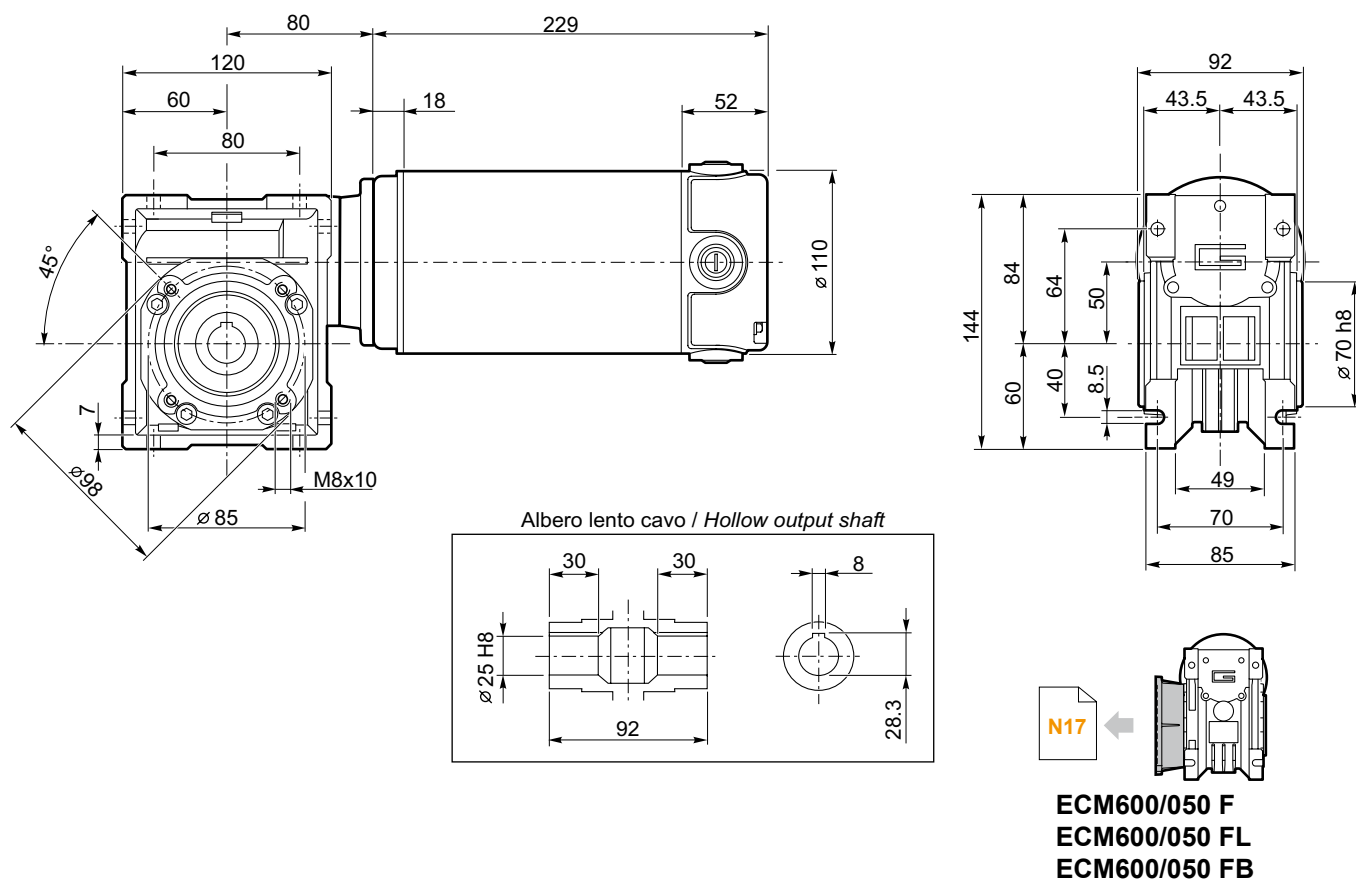
ECM



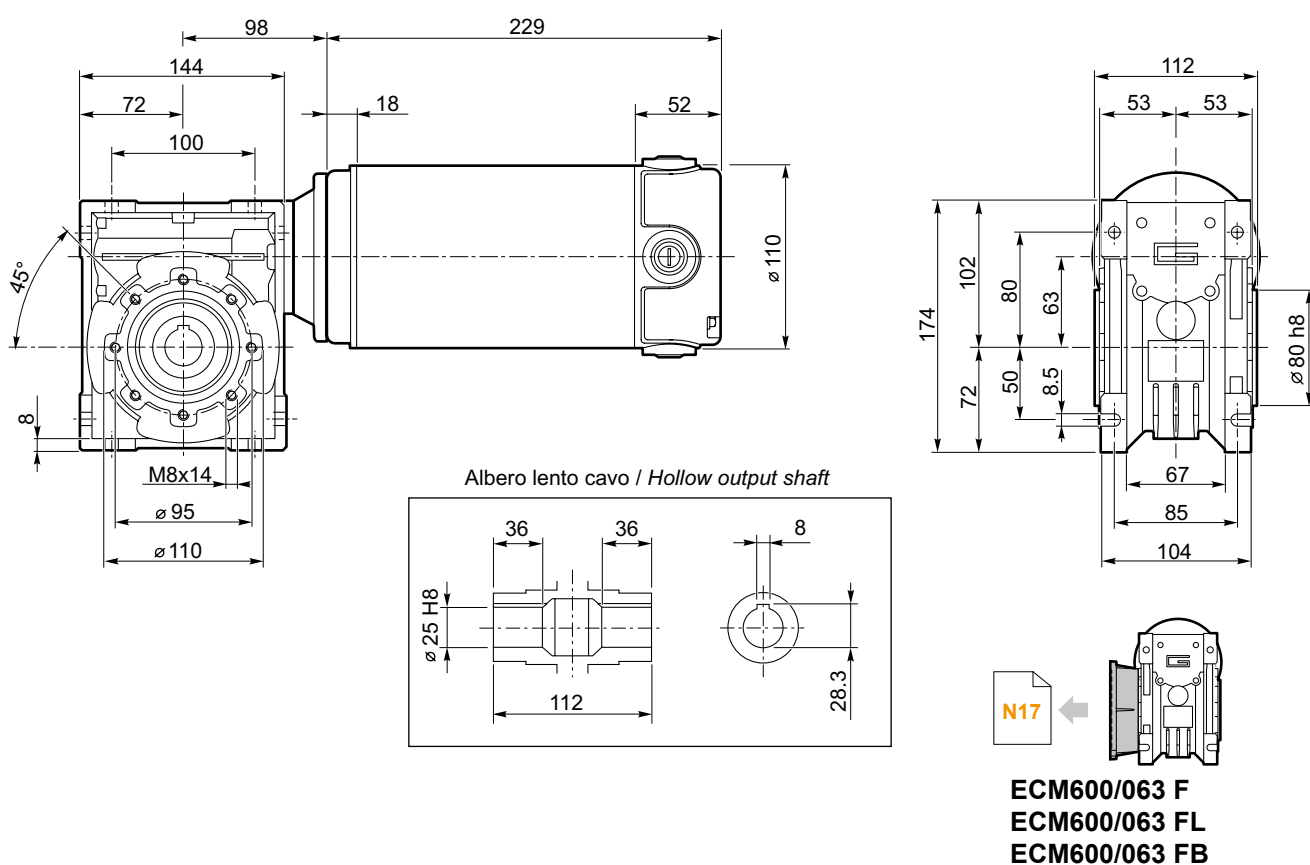
Dimensioni

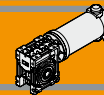
Dimensions

ECM600/050 U



ECM600/063 U

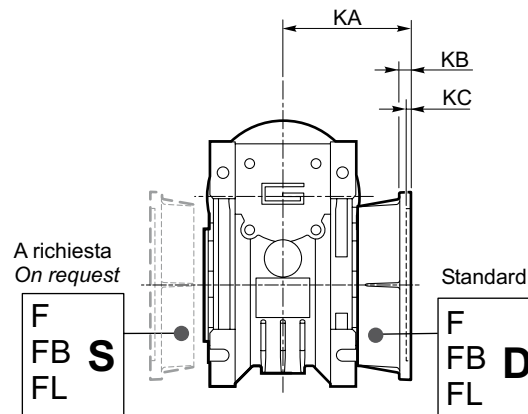
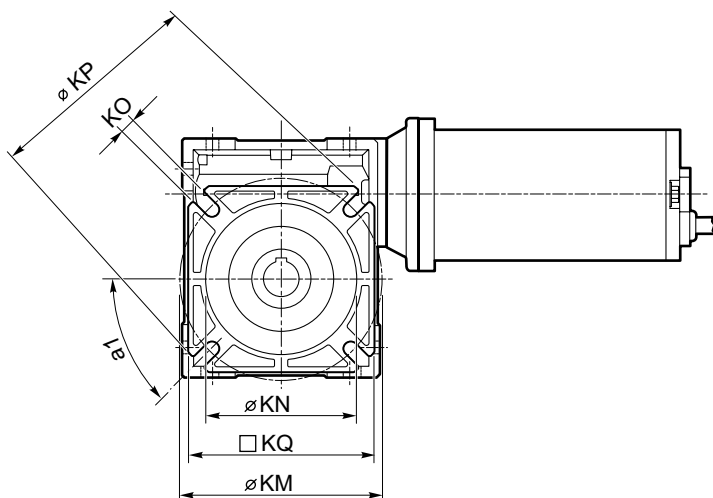




Dimensioni

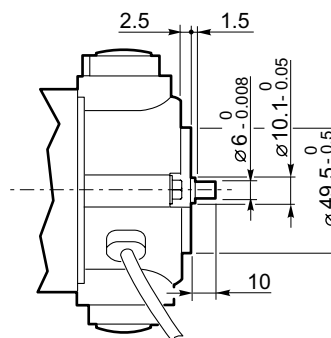
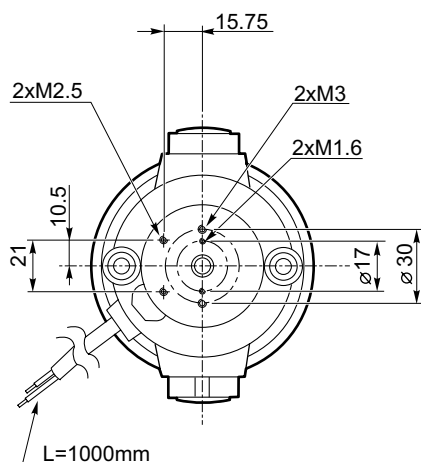
Dimensions

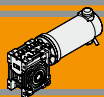
ECM.../... F... Flange uscita / Output flanges



CM	CM..F									CM..FB								CM..FL							
	a1	KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC	KM	KN H8	KO	KP	KQ
026	45°	45	6	4.5	55-69	40	6.5(n.4)	75	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
030	45°	54.5	6	4	68	50	6.5(n.4)	80	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
040	45°	67	7.5	4	80-95	60	9(n.4)	110	95	80	8.5	5	115-125	95	9.5(n.4)	140	112	97	7.5	4.5	80-95	60	9(n.4)	110	95
050	45°	90	9	5	90-110	70	11(n.4)	125	110	89	9	5	130-145	110	9.5(n.4)	160	132	120	9	5	90-110	70	11(n.4)	125	110
063	45°	82	10	6	150-160	115	11(n.4)	180	142	98	10	5	165-180	130	11(n.4)	200	160	112	10	6	150-160	115	11(n.4)	180	142

EC100.24E
EC180.24E

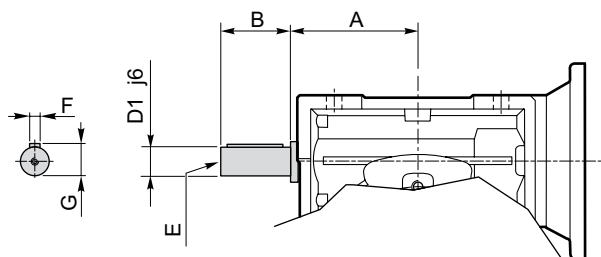




Opzioni

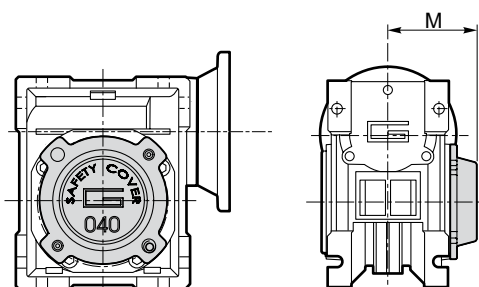
Options

VS - Vite sporgente / Extended input shaft



	A	B	D ₁ j6	E	F	G
CM 030	45	20	9	M4	3	10.2
CM 040	53	23	11	M5	4	12.5
CM 050	64	30	14	M6	5	16
CM 063	75	40	19	M6	6	21.5

SC - Safety cover



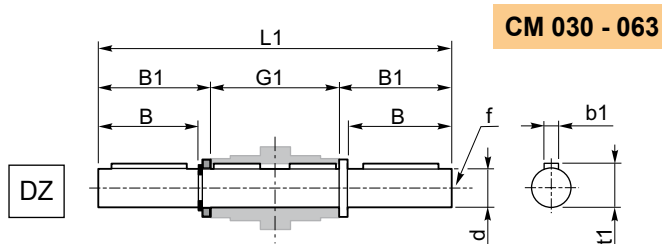
	M
CM 030	47
CM 040	54.5
CM 050	62.5
CM 063	73

Accessori

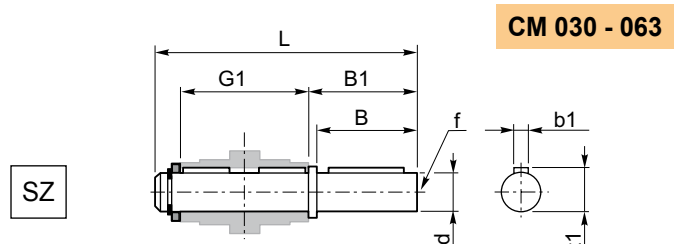
Accessories

Albero lento

Output shaft

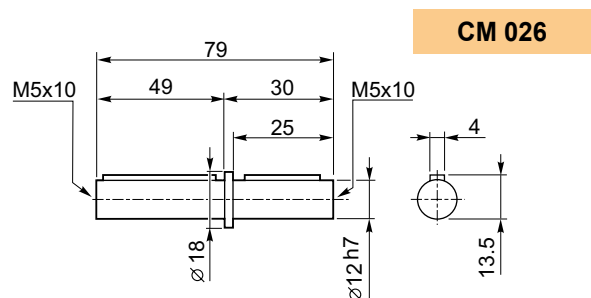


CM 030 - 063



CM 030 - 063

	d h7	B	B1	G1	L	L1	f	b1	t1
CM 030	14	30	32.5	63	102	128	M6	5	16
CM 040	18	40	43	78	128	164	M6	6	20.5
CM 050	25	50	53.5	92	153	199	M10	8	28
CM 063	25	50	53.5	112	173	219	M10	8	28

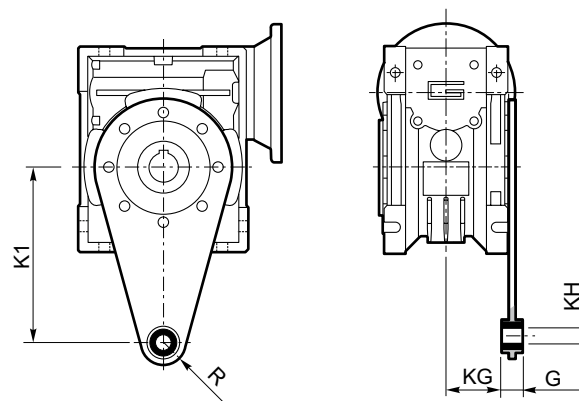


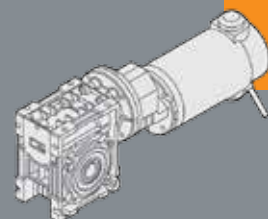
CM 026

Braccio di reazione

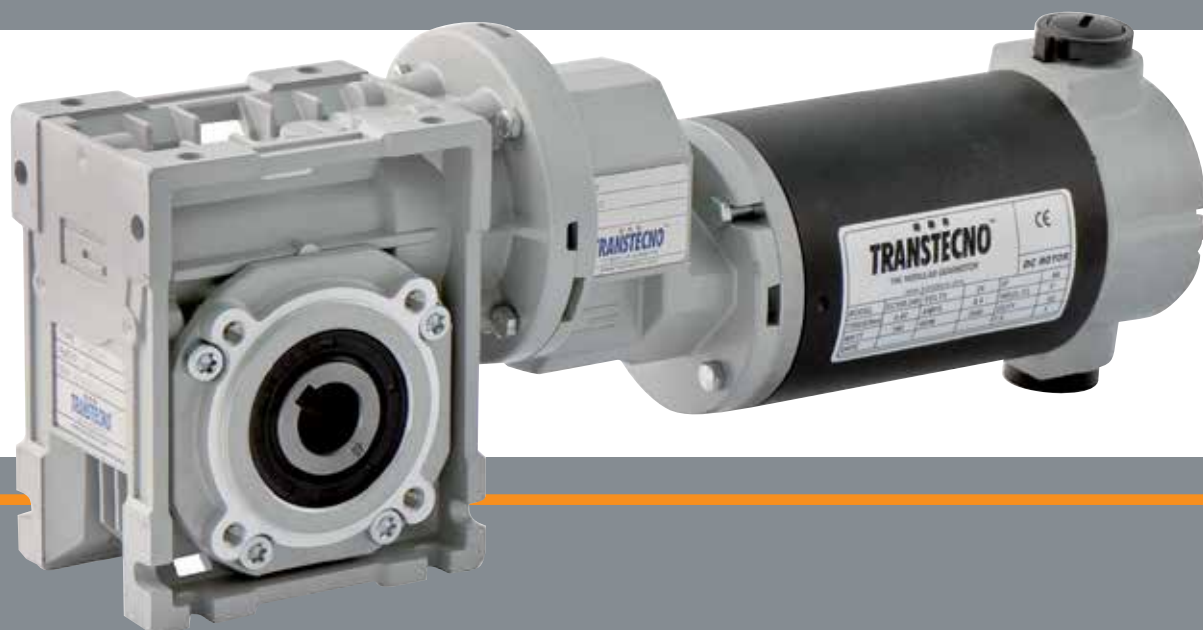
Torque arm

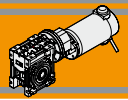
	K1	G	KG	KH	R
CM 030	85	14	23	8	15
CM 040	100	14	31	10	18
CM 050	100	14	38	10	18
CM 063	150	14	47.5	10	18





MOTORIDUTTORI C.C. CON PRECOPPIA
PERMANENT MAGNETS D.C. PRE-STAGE GEARMOTORS

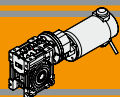




Indice	Index	Pag. Page
Caratteristiche tecniche	<i>Technical features</i>	02
Designazione	<i>Classification</i>	02
Simbologia	<i>Symbols</i>	03
Lubrificazione	<i>Lubrication</i>	03
Carichi radiali	<i>Radial loads</i>	04
Dati tecnici per servizio S2	<i>Technical data for S2 duty</i>	05
Motori applicabili	<i>IEC Motor adapters</i>	06
Dimensioni	<i>Dimensions</i>	07
Opzioni	<i>Options</i>	019
Accessori	<i>Accessories</i>	019

Questa sezione annulla e sostituisce ogni precedente edizione o revisione. Qualora questa sezione non Vi sia giunta in distribuzione controllata, l'aggiornamento dei dati ivi contenuto non è assicurato. **In tal caso la versione più aggiornata è disponibile sul nostro sito internet www.transtecno.com**

*This section replaces any previous edition and revision. If you obtained this catalogue other than through controlled distribution channels, the most up to date content is not guaranteed. **In this case the latest version is available on our web site www.transtecno.com***



Caratteristiche tecniche

Technical features

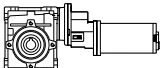
Le caratteristiche principali dei motoriduttori a corrente continua della serie ECMP sono:

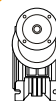
The main features of ECMP D.C. gearmotor range are:

- Alimentazione in bassa tensione 12/24 Vcc
 - Possibilità di montaggio encoder
 - Potenze motore disponibili da 100 a 800W S2
 - Magneti in ferrite
 - Sia le carcasse dei riduttori a vite senza fine che delle precoppie sono in pressofusione di alluminio
 - Lubrificazione permanente con olio sintetico
- Low voltage power supply 12/24 Vdc
 - Suitable for encoder assembly
 - Motor power ratings available from 100 up to 800W S2
 - Ferrite magnets
 - Die-cast aluminum housing on pre-stage and wormgearboxes
 - Permanent synthetic oil long-life lubrication.

Designazione

Classification

MOTORIDUTTORE / GEARMOTOR														
ECMP	070/056/030				U	90	SZDX	BRSX	90	P4	B3	240	VS	
Tipo Type	Grandezza Size				Versione Riduttore Gearbox Version	Rapporto Ratio	Albero di uscita Output shaft	Braccio di reazione Torque arm	Angolo Angle	Pos. di montag- gio precoppia Pre stage mounting position	Pos. di montaggio Mounting position	Ver- sione Motore Motor Version	Opzioni Options	
	ECMP	070/056/030	180/056/030	350/063/050	600/071/050	U	Vedere tabella	SZDX	BRDX	0°	P1	B3	120	VS
	070/056/040	180/056/040	350/063/063	600/071/063	FD	SZSX		BRSX	90°	P2	B8			
		180/063/050	350/071/063	600/071/075	FS	See tables	DZ	180°	P3 (standard) P4	B6	240			
		180/063/063	350/071/075		FLD			270°		B7				
	100/056/030				FLS					V5	24E			
	100/056/040	250/063/040			FBD			V6						
	100/063/050	250/063/050			FBS									
		250/063/063												



P1



P2



P3
(standard)



P4

Versione Riduttore
Gearbox Version



U



FD
FLD
FBD



FS
FLS
FBS

Albero di uscita
Output shaft



SZDX



SZSX



DZ

Braccio di reazione
Torque arm

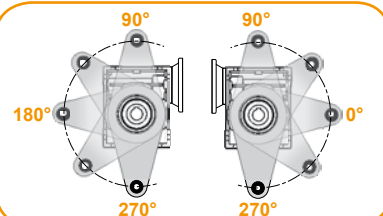


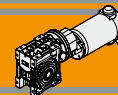
BRDX



BRSX

Angolo
Angle





Simbologia

Symbols

n_1	[min ⁻¹]	Velocità in ingresso / <i>Input speed</i>
n_2	[min ⁻¹]	Velocità in uscita / <i>Output speed</i>
i		Rapporto di riduzione / <i>Ratio</i>
P_1	[kW]	Potenza in entrata / <i>Input power</i>

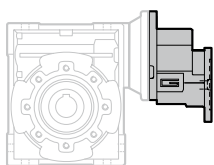
M_2	[Nm]	Coppia in uscita in funzione di P_1 / <i>Output torque referred to P_1</i>
sf		Fattore di servizio / <i>Service factor</i>
R_2	[N]	Carico radiale ammissibile in uscita / <i>Permitted output radial load</i>
A_2	[N]	Carico assiale ammissibile in uscita / <i>Permitted output axial load</i>

Lubrificazione

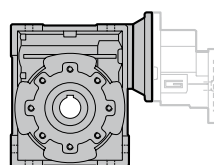
Lubrication

I riduttori a vite senza fine con precoppia della serie CMP sono lubrificati a vita con olio sintetico di viscosità 320 e possono essere installati in qualunque posizione di montaggio.

Permanent synthetic oil long - life lubrication allow to use CMP range in all mounting positions.

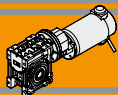


CMP		
056/030 056/040	063/040 063/050 063/063	071/050 071/063 071/075
Lubrificazione a vita - <i>Life lubrication</i>		



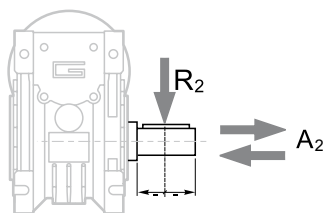
CMP	Quantità di olio (litri) / <i>Oil quantity (litres)</i>	
	Per tutte le posizioni di montaggio / <i>For all mounting positions</i>	
056/030	0.03	
056/040 - 063/040	0.07	
063/050 - 071/050	0.1	
063/063 - 071/063	0.25	
071/075	0.4	

Lubrificazione a vita
Life lubrication



Carichi radiali

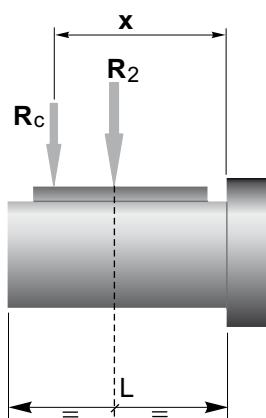
Radial loads



n_2 [min ⁻¹]	R_2 [N]				
	CM030	CM040	CM050	CM063	CM075
35	1179	2210	3095	4273	4937
28	1270	2381	3334	4603	5318
23	1356	2542	3559	4915	5678
18	1471	2759	3862	5334	6162
14	1600	3000	4200	5800	6700

Quando il carico radiale risultante non è applicato sulla mezza-
ria dell'albero occorre calcolare quello effettivo con la seguente
formula:

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:

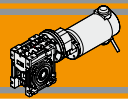


$$R_c = \frac{R_2 \cdot a}{(b + x)} \leq R_{2MAX}$$

$$R \leq R_c$$

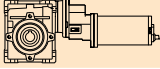
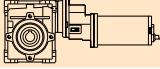
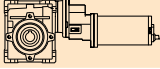
a, b = valori riportati nella tabella
 a, b = values given in the table

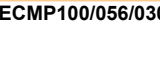
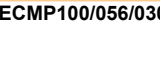
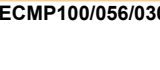
	CM				
	030	040	050	063	075
a	65	84	101	120	131
b	50	64	76	95	101
R_{2MAX}	1600	3000	4200	5800	6700

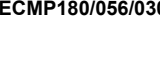
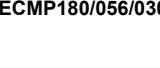
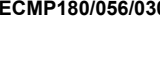
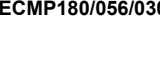


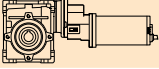
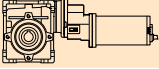
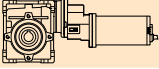
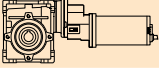
Dati tecnici per servizio S2

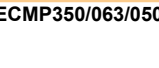
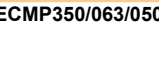
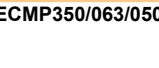
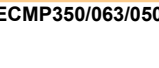
Technical data for S2 duty

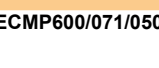
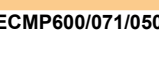
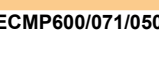
P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version
100						
(3000 min ⁻¹)	50	13	1.7	60		ECMP070/056/030
	40	16	1.4	75		
	33	17	1.6	90		
	25	22	1.1	120		
	20	25	0.9	150		
	50	14	3.2	60		ECMP070/056/040
	40	16	2.7	75		
	33	19	3.0	90		
	25	22	2.1	120		
	20	27	1.7	150		
	17	30	1.4	180		
	13	34	1.2	240		
	10	38	0.9	300		

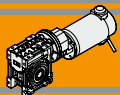
140						
(3000 min ⁻¹)	50	19	1.2	60		ECMP100/056/030
	40	22	1.0	75		
	33	24	1.1	90		
	25	30	0.8	120		
	20	31	0.7	150		
	50	19	2.3	60		ECMP100/056/040
	40	23	1.9	75		
	33	26	2.2	90		
	25	31	1.5	120		
	20	37	1.2	150		
	17	42	1.0	180		
	13	48	0.8	240		
	10	54	0.7	300		
	50	20	4.1	60		ECMP100/063/050
	40	24	3.2	75		
	33	27	3.7	90		
	25	32	2.6	120		
	20	39	2.1	150		
	17	43	1.8	180		
	13	50	1.4	240		

250						
(3000 min ⁻¹)	50	33	0.7	60		ECMP180/056/030
	40	31	0.7	75		
	33	39	0.7	90		
	25	33	0.7	120		
	20	31	0.7	150		
	50	35	1.3	60		ECMP180/056/040
	40	41	1.1	75		
	33	46	1.2	90		
	25	56	0.9	120		
	20	67	0.7	150		
	17	61	0.7	180		
	13	57	0.7	240		
	10	51	0.7	300		
	50	35	2.3	60		ECMP180/063/050
	40	42	1.8	75		
	33	48	2.1	90		
	25	58	1.5	120		
	20	69	1.2	150		
	17	77	1.0	180		
	13	90	0.8	240		
	50	37	4.2	60		ECMP180/063/063
	40	44	3.1	75		
	33	49	3.8	90		
	25	61	2.6	120		
	20	71	2.1	150		
	17	81	1.7	180		
	13	97	1.3	240		
	10	110	1.1	300		

P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version
350						
(3000 min ⁻¹)	50	48	0.9	60		ECMP250/063/040
	40	57	0.8	75		
	33	65	0.9	90		
	25	69	0.7	120		
	50	49	1.6	60		ECMP250/063/050
	40	59	1.3	75		
	33	67	1.5	90		
	25	81	1.0	120		
	20	97	0.8	150		
	17	108	0.7	180		
	13	99	0.7	240		
	50	51	3.0	60		ECMP250/063/063
	40	61	2.2	75		
	33	69	2.7	90		
	25	85	1.9	120		
	20	100	1.5	150		
	17	114	1.2	180		
	13	136	0.9	240		
	10	154	0.8	300		

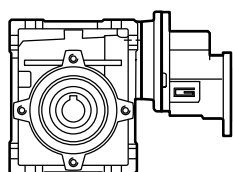
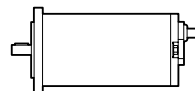
500						
(3000 min ⁻¹)	50	70	1.1	60		ECMP350/063/050
	40	84	0.9	75		
	33	95	1.0	90		
	25	116	0.7	120		
	20	116	0.7	150		
	17	109	0.7	180		ECMP350/063/063
	13	99	0.7	240		
	50	73	2.1	60		
	40	88	1.6	75		
	33	98	1.9	90		
	25	122	1.3	120		
	20	143	1.1	150		
	17	163	0.9	180		
	13	195	0.7	240		ECMP350/071/063
	10	174	0.7	300		
	50	73	2.1	60		
	40	88	1.6	75		
	33	98	1.9	90		
	25	122	1.3	120		
	20	143	1.1	150		
	17	163	0.9	180		
	50	75	3.4	60		ECMP350/071/075
	40	90	2.6	75		
	33	102	3.0	90		
	25	127	2.1	120		
	20	150	1.6	150		
	17	171	1.4	180		
	13	206	1.0	240		
	10	234	0.8	300		

800						
(3000 min ⁻¹)	50	112	0.7	60		ECMP600/071/050
	40	107	0.7	75		
	33	141	0.7	90		
	50	117	1.3	60		ECMP600/071/063
	40	140	1.0	75		
	33	157	1.2	90		
	25	195	0.8	120		
	20	228	0.7	150		
	17	203	0.7	180		
	50	120	2.1	60		ECMP600/071/075
	40	144	1.6	75		
	33	164	1.9	90		
	25	204	1.3	120		
	20	240	1.0	150		
	17	274	0.9	180		
	13	299	0.7	240		
	10	277	0.7	300		



Motori applicabili

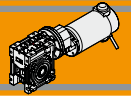
IEC Motor adapters



		EC						
		070.120 070.240	100.120 100.240 100.24E	180.120 180.240	180.24E	250.120 250.240	350.120 350.240	600.120 600.240
CMP	056/030	150	150	150				
	056/040	300	300	300				
	063/040					120		
	063/050		240	240	240	240	240	
	063/063			300	300	300	300	
	071/050							90
	071/063						180	180
	071/075						300	300

150

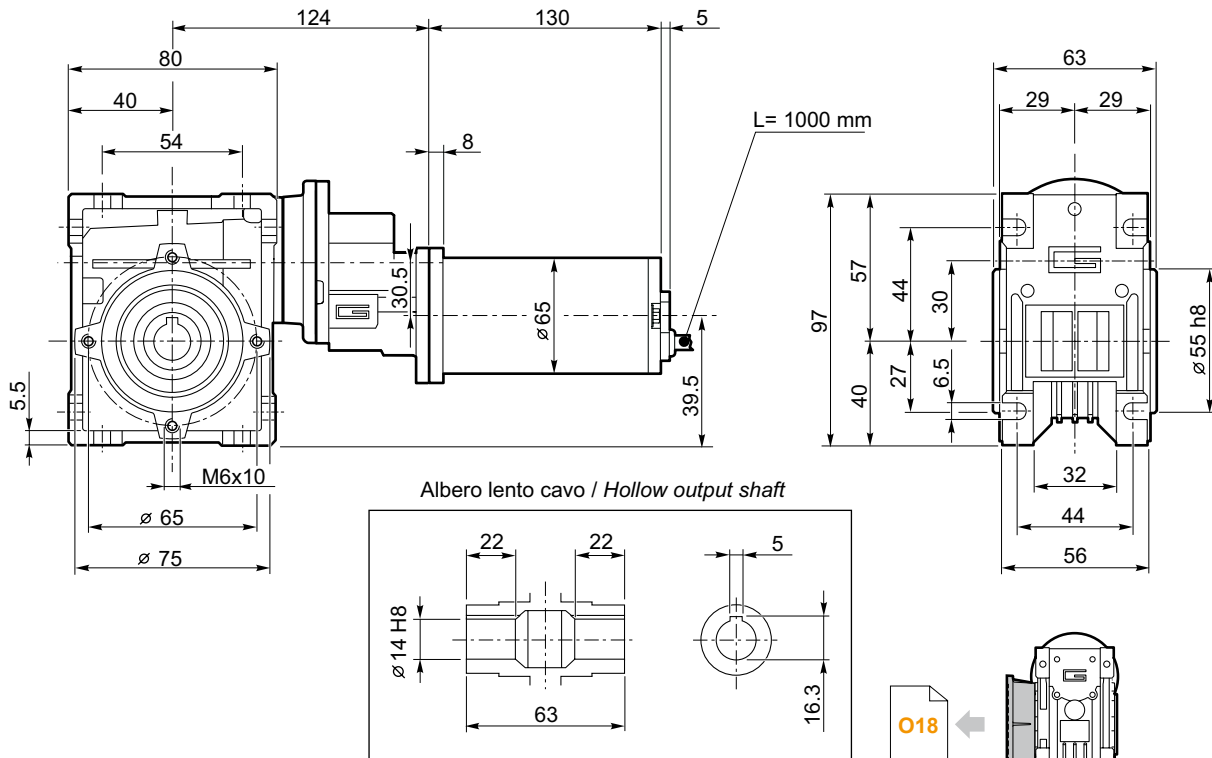
Rapporto di riduzione massimo i_{max}
 Maximum ratio i_{max}



Dimensioni

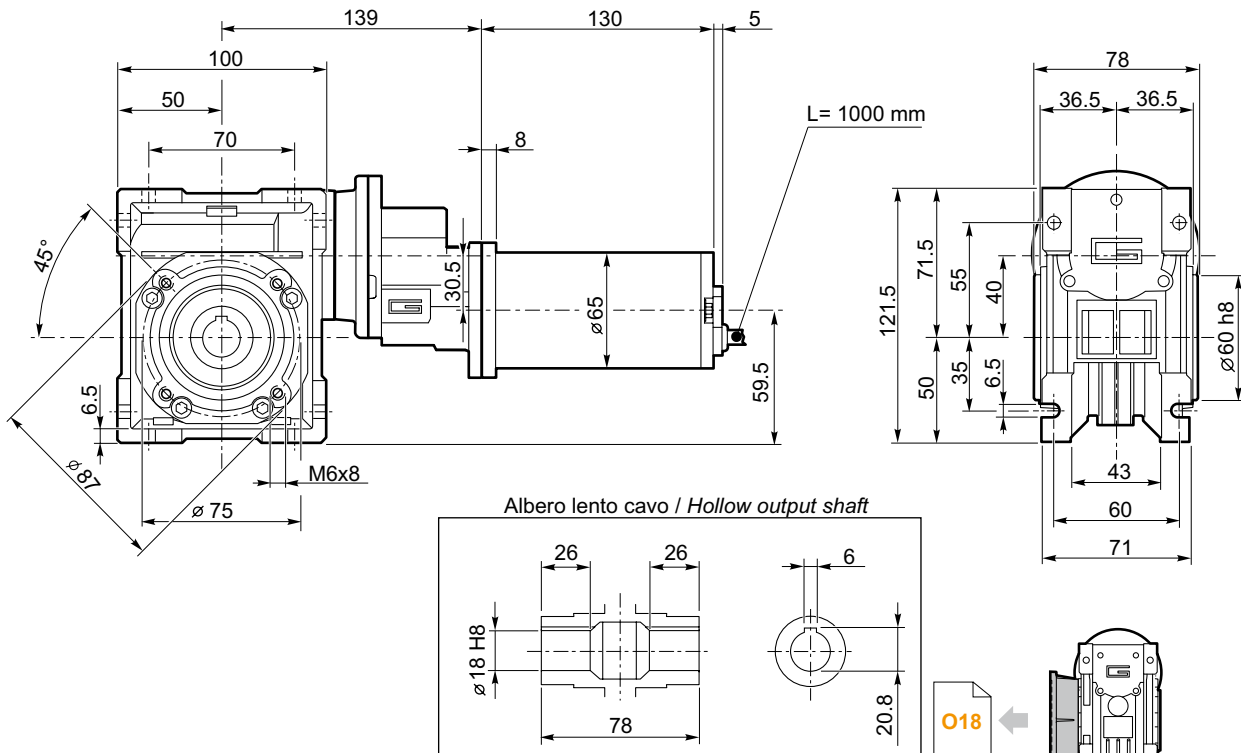
Dimensions

ECMP070/056/030 U

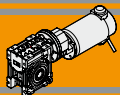


ECMP070/056/030 F

ECMP070/056/040 U



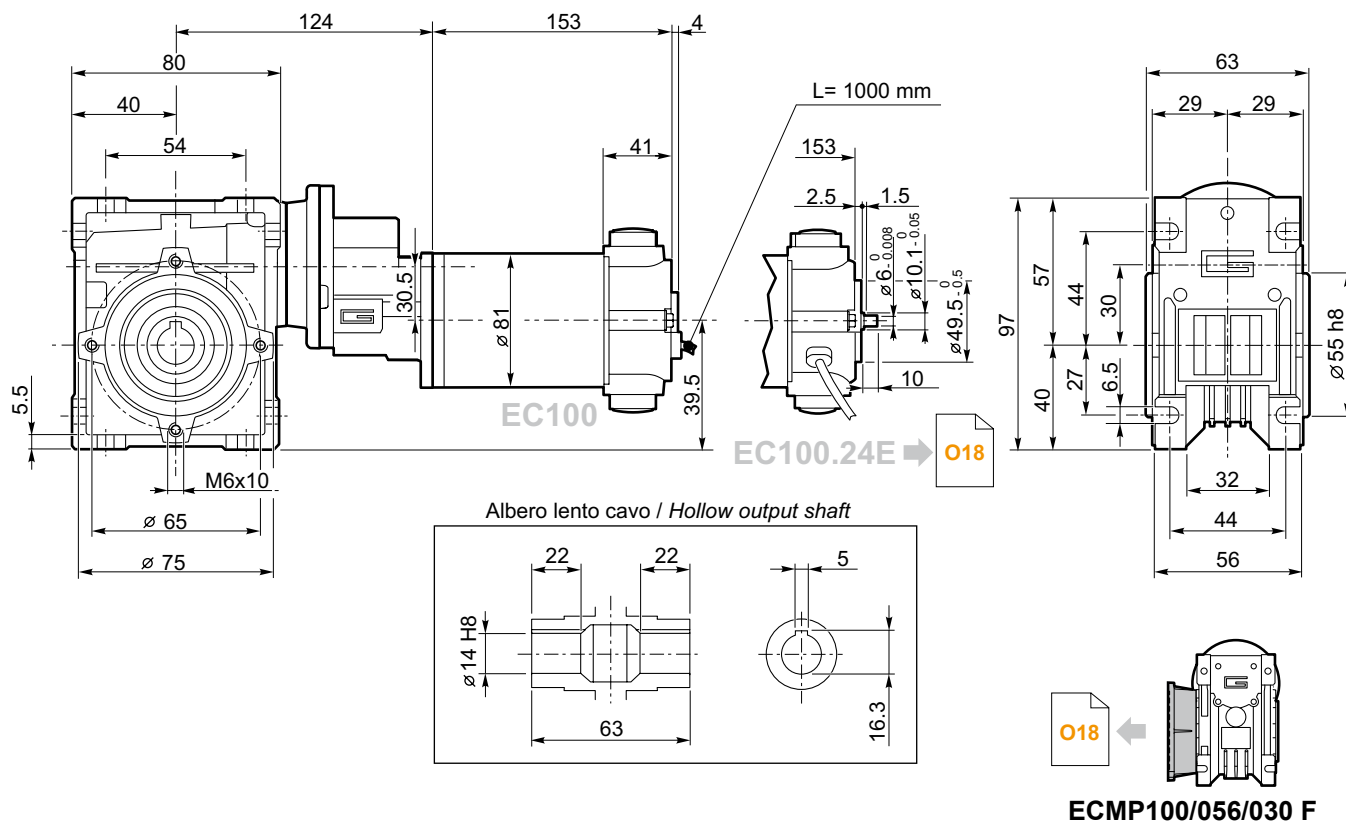
ECMP070/056/040 F
ECMP070/056/040 FL
ECMP070/056/040 FB



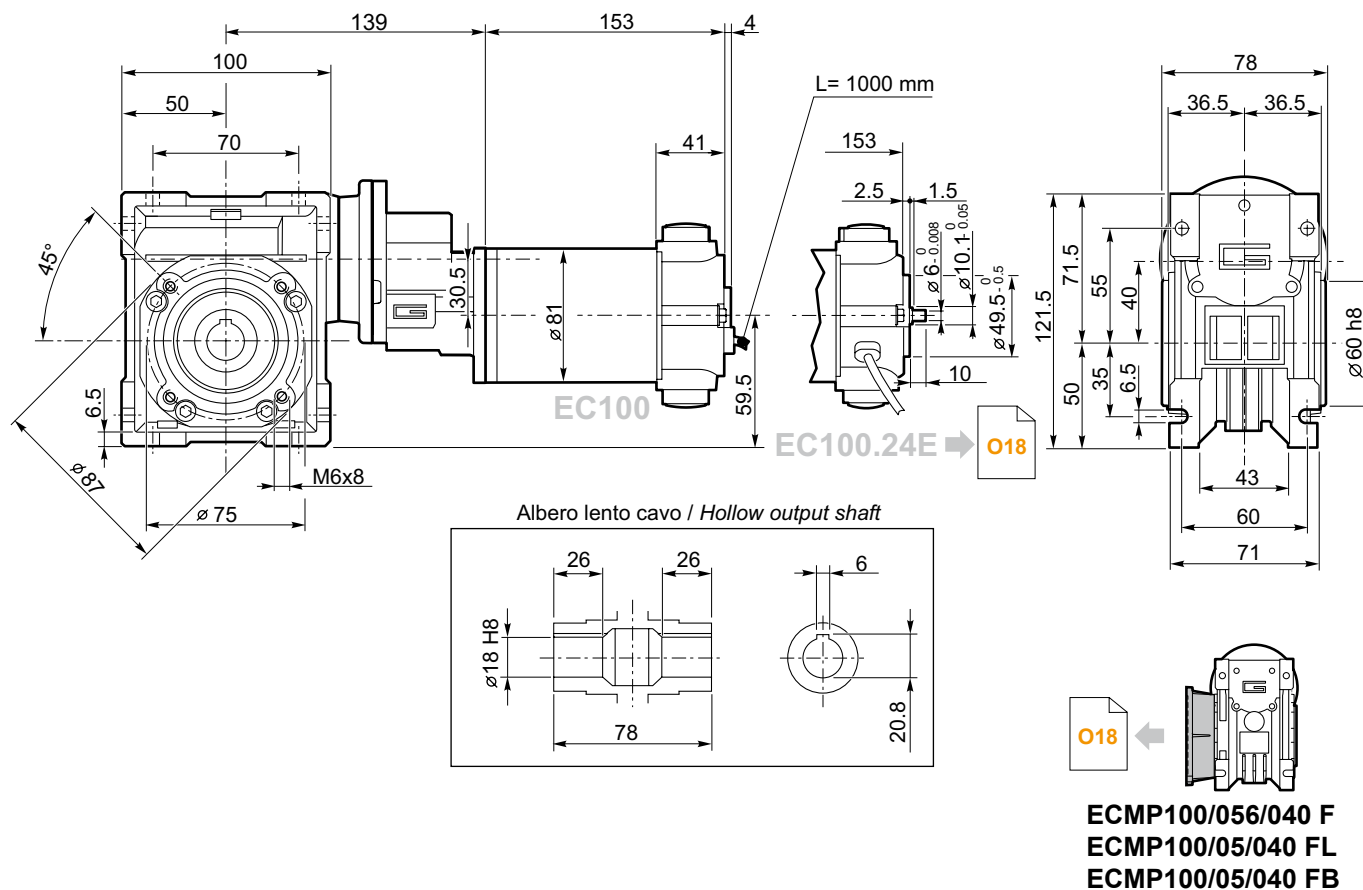
Dimensioni

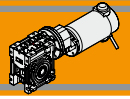
Dimensions

ECMP100/056/030 U



ECMP100/056/040 U

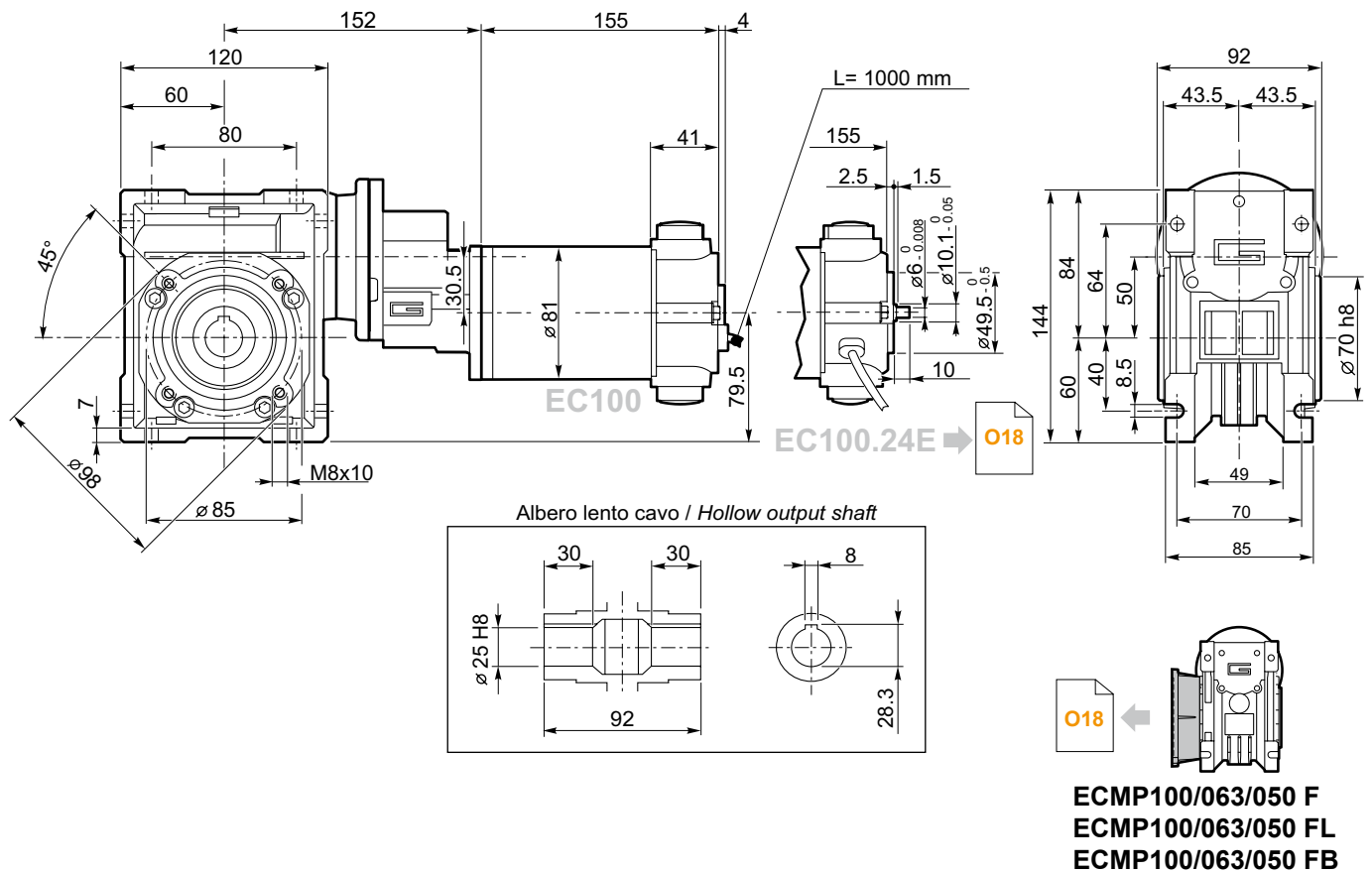


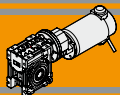


Dimensioni

Dimensions

ECMP100/063/050 U

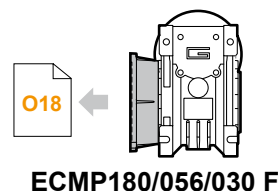
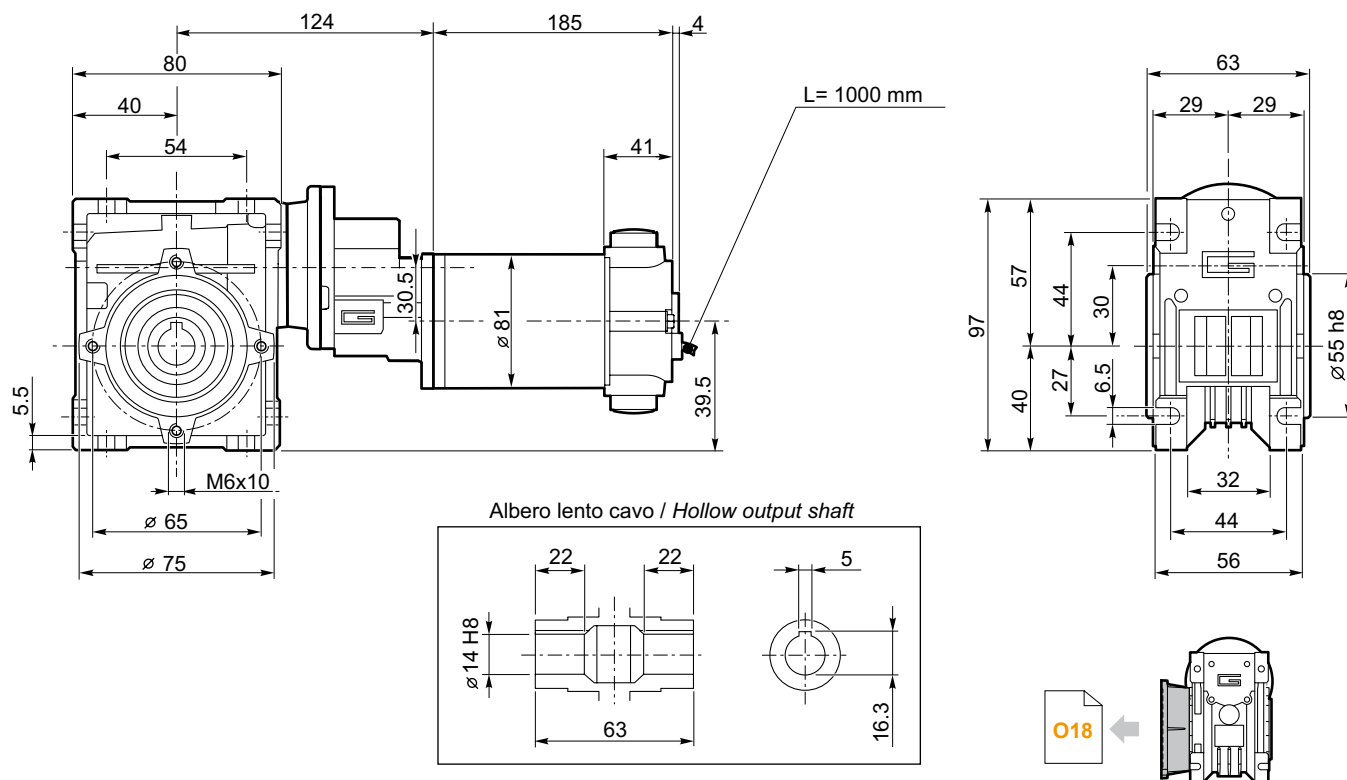




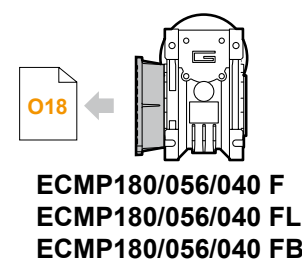
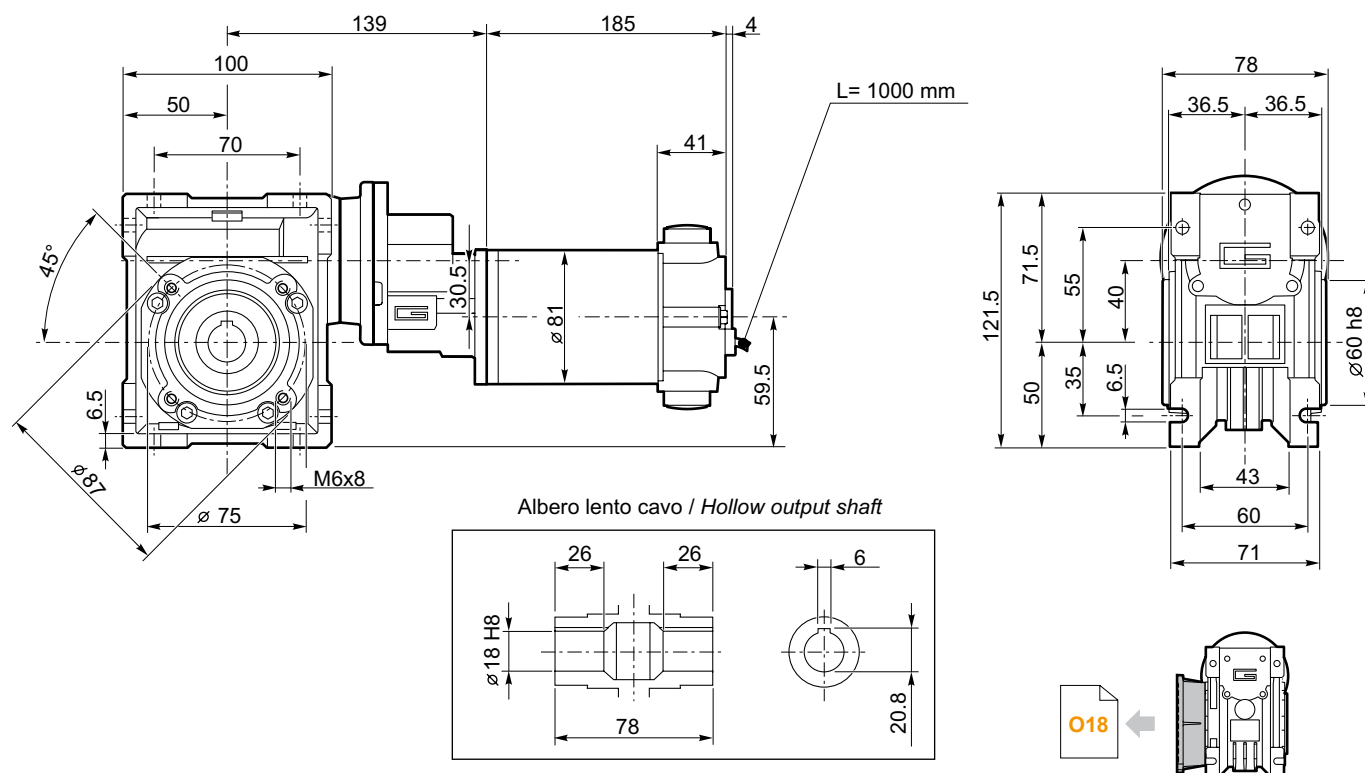
Dimensioni

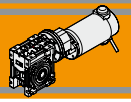
Dimensions

ECMP180/056/030 U



ECMP180/056/040 U

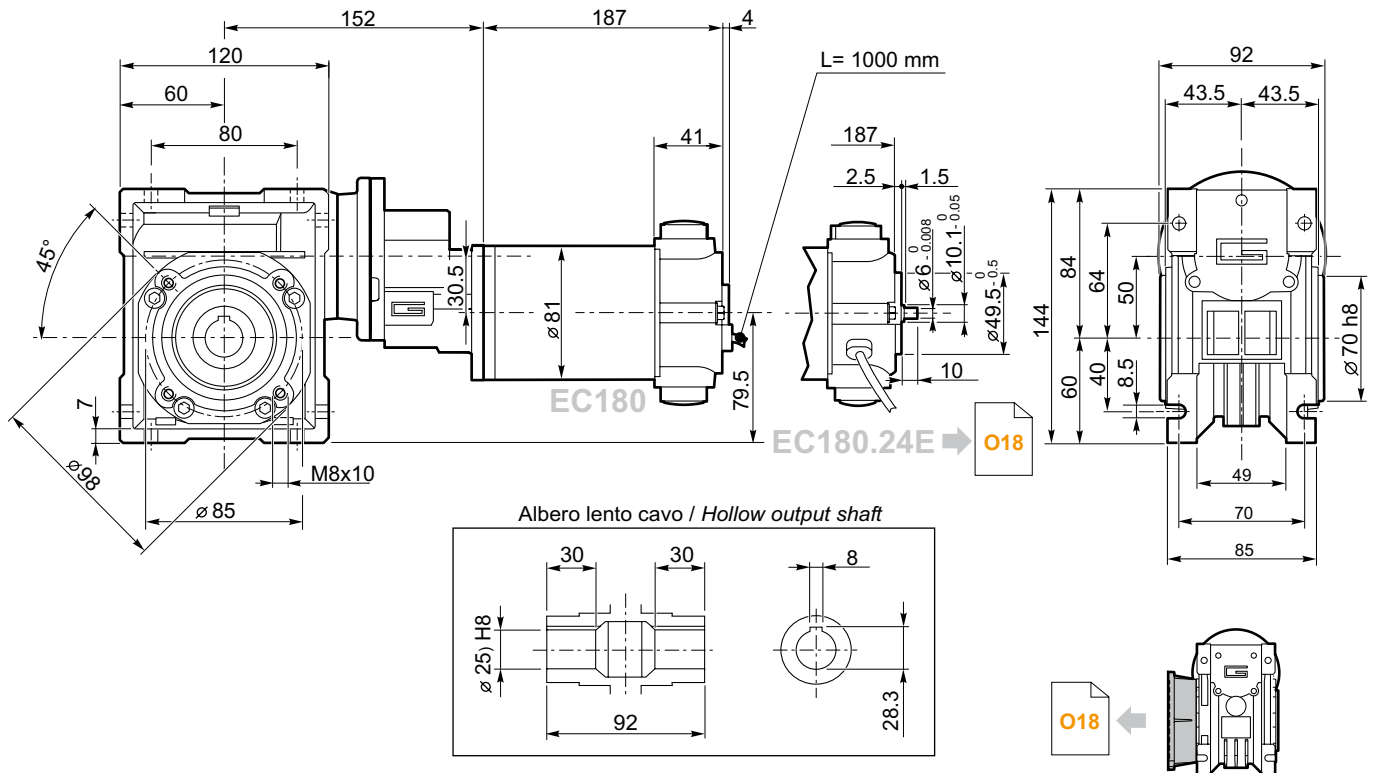




Dimensioni

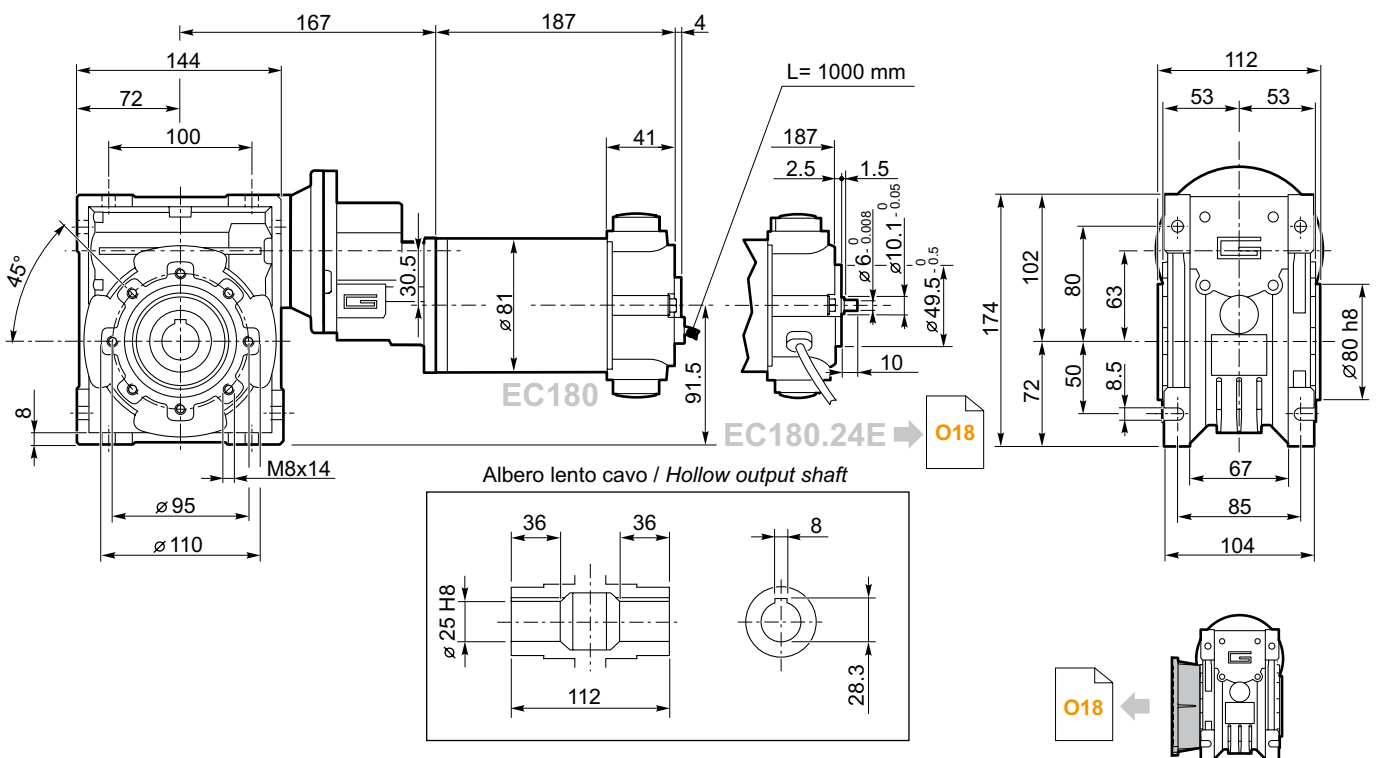
Dimensions

ECMP180/063/050 U

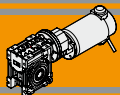


ECMP180/063/050 F
ECMP180/063/050 FL
ECMP180/063/050 FB

ECMP180/063/063 U



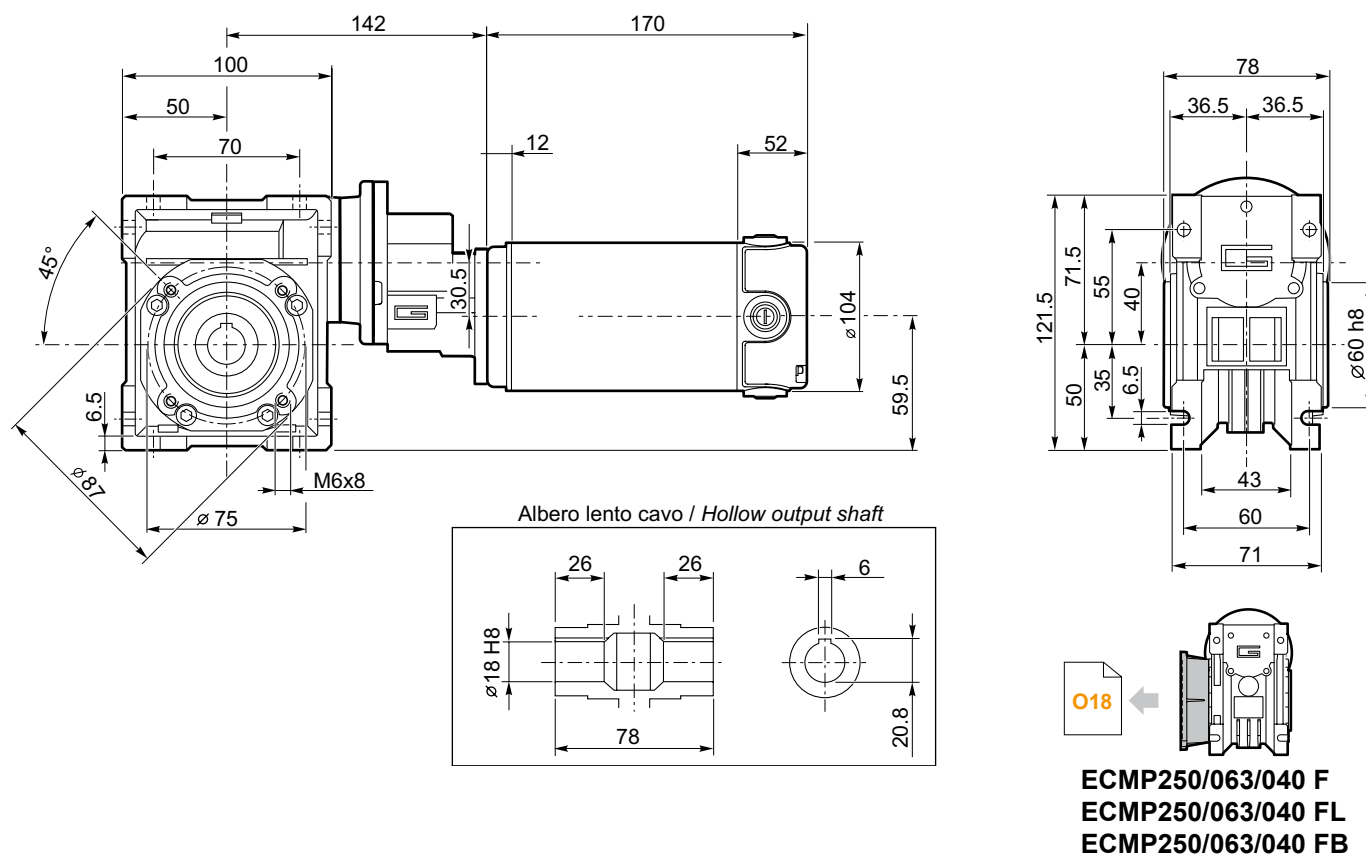
ECMP180/063/063 F
ECMP180/063/063 FL
ECMP180/063/063 FB



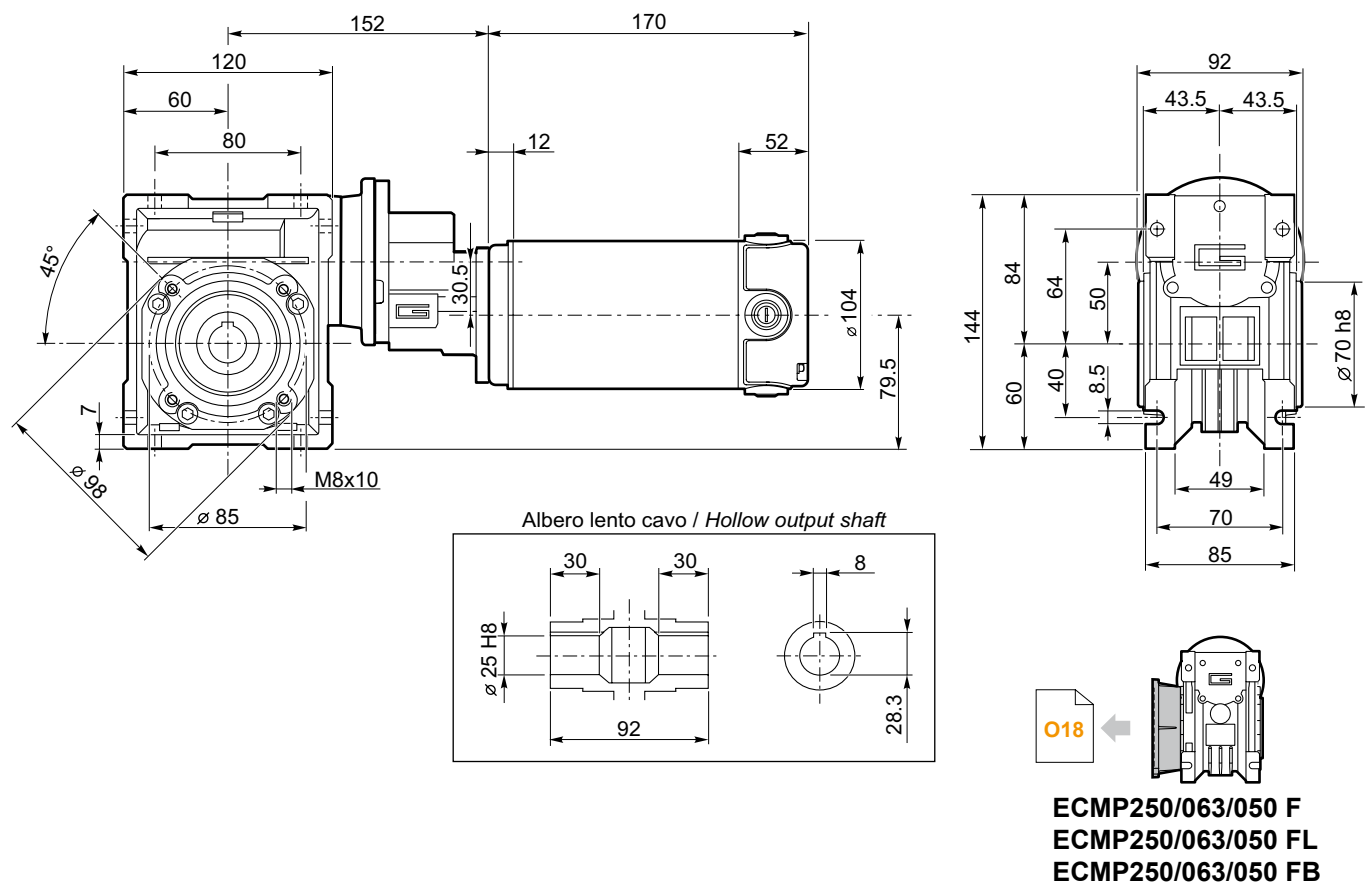
Dimensioni

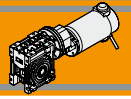
Dimensions

ECMP250/063/040 U



ECMP250/063/050 U

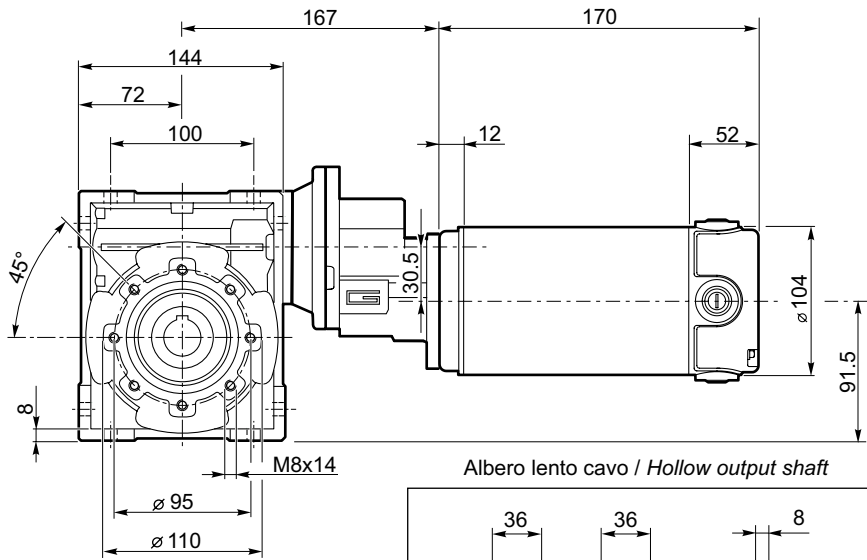




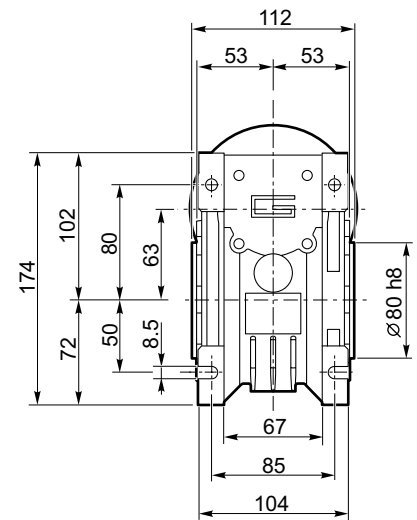
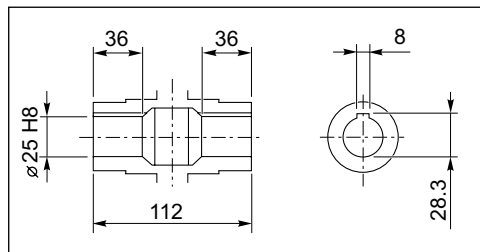
Dimensioni

Dimensions

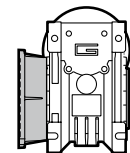
ECMP250/063/063 U



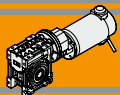
Albero lento cavo / Hollow output shaft



O18



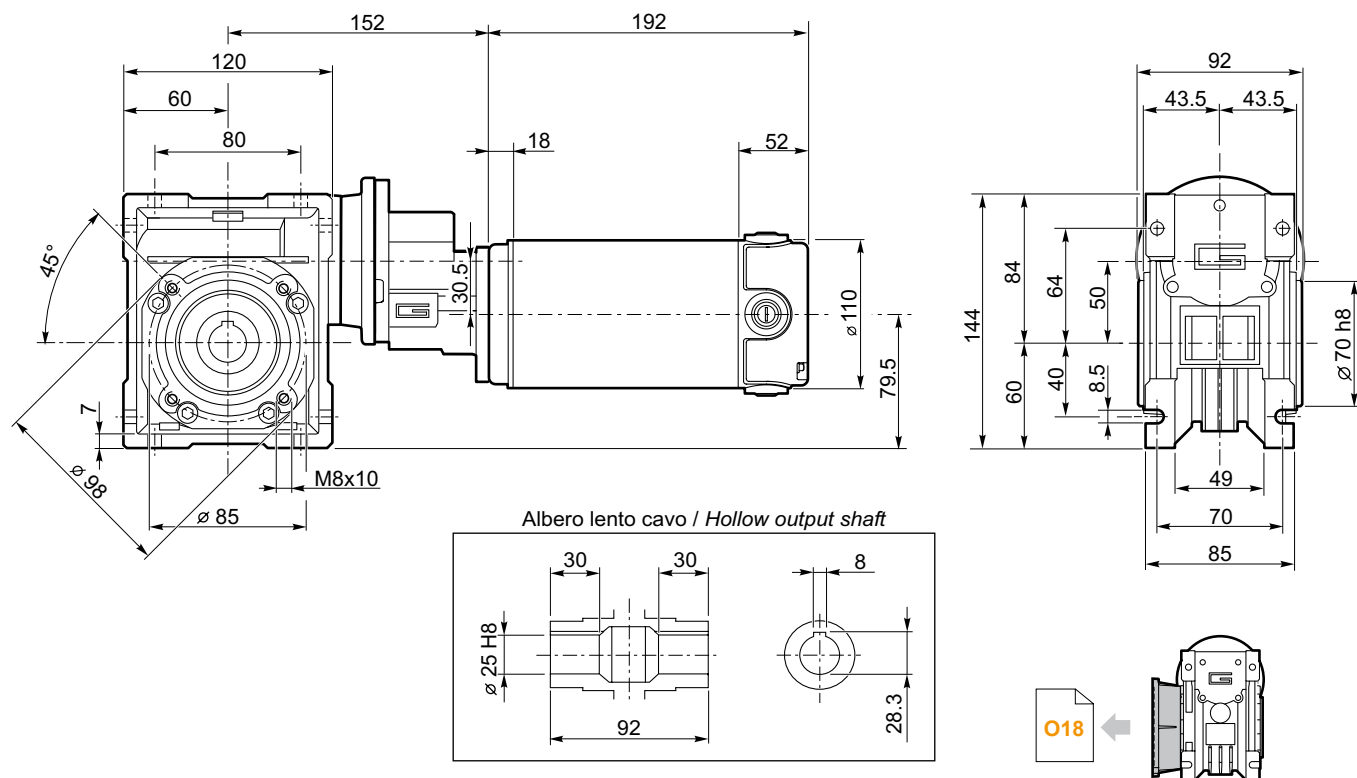
ECMP250/063/063 F
ECMP250/063/063 FL
ECMP250/063/063 FB



Dimensioni

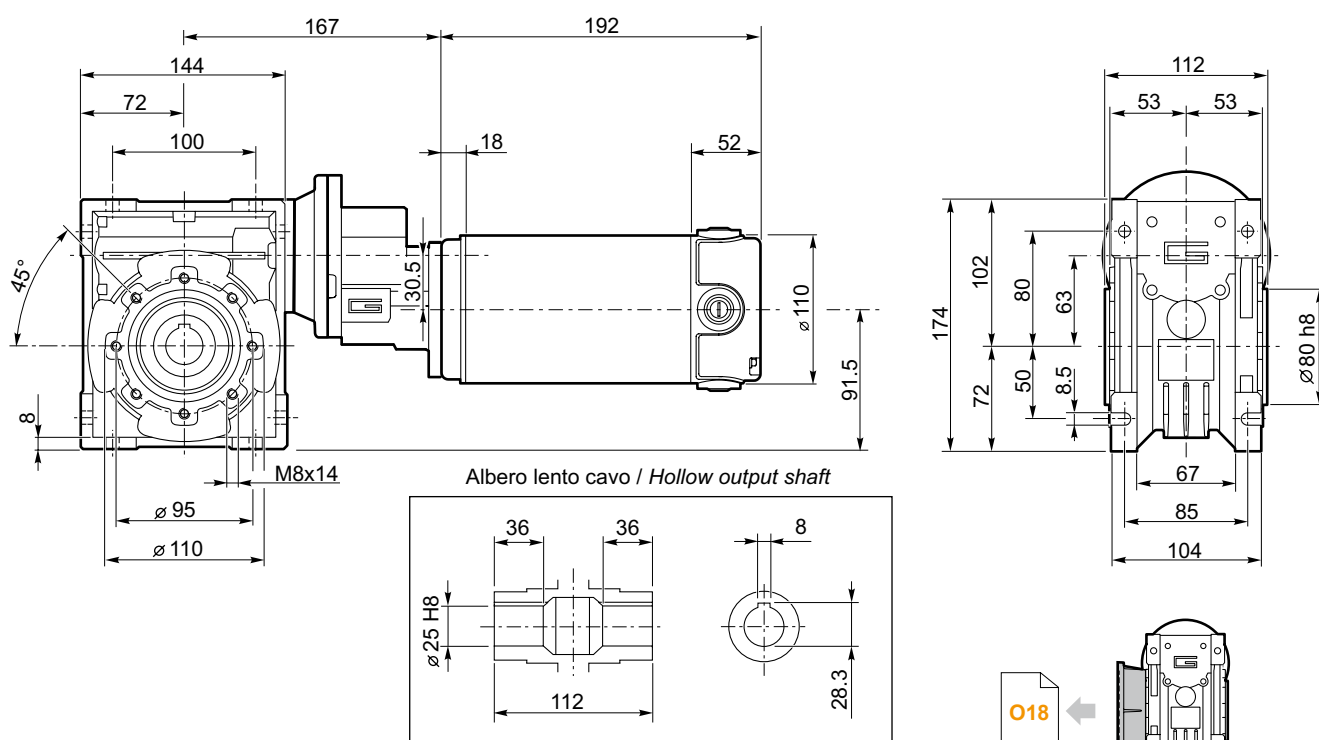
Dimensions

ECMP350/063/050 U

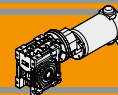


ECMP350/063/050 F
ECMP350/063/050 FL
ECMP350/063/050 FB

ECMP350/063/063 U



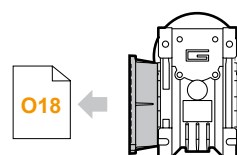
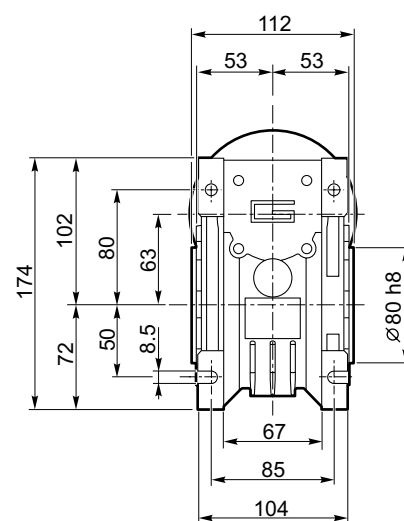
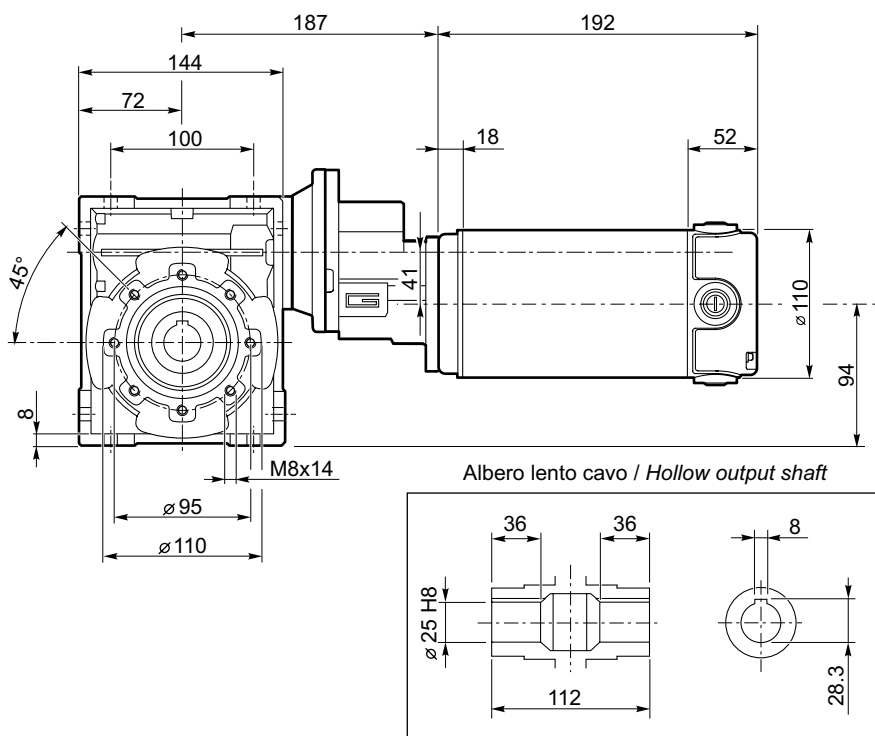
ECMP350/063/063 F
ECMP350/063/063 FL
ECMP350/063/063 FB



Dimensioni

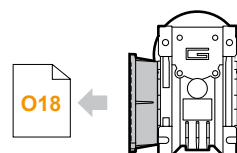
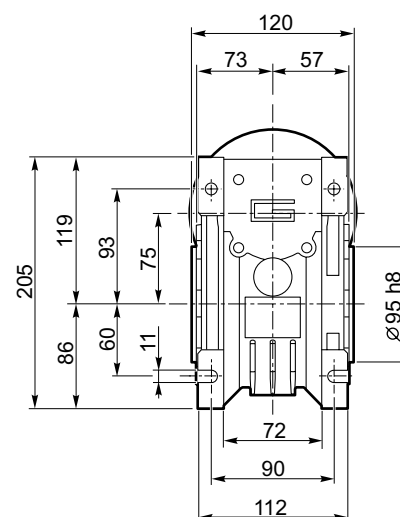
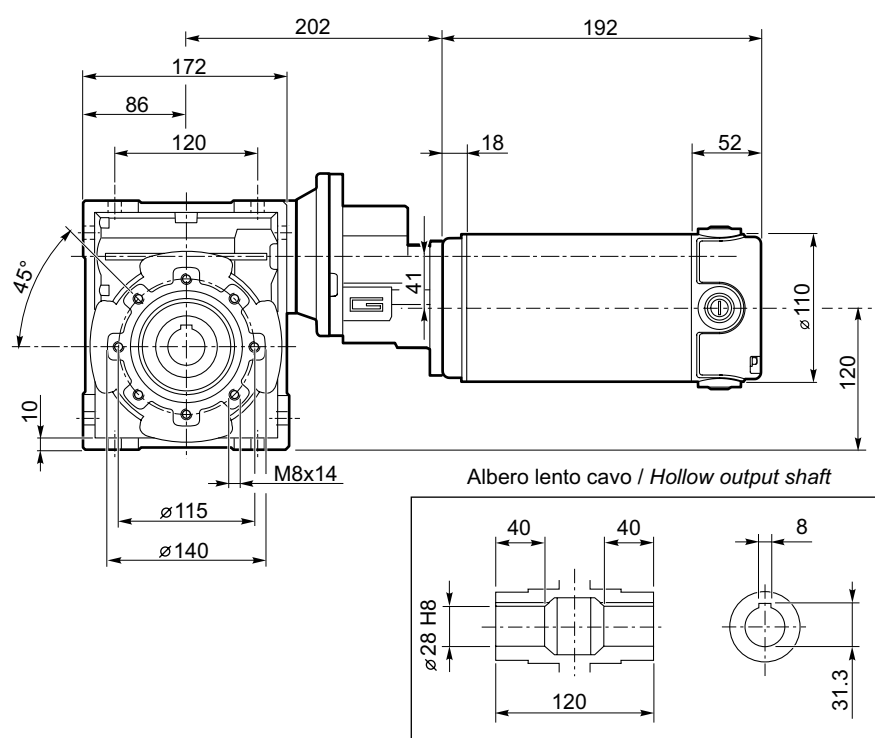
Dimensions

ECMP350/071/063 U

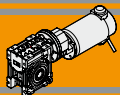


ECMP350/071/063 F
ECMP350/071/063 FL
ECMP350/071/063 FB

ECMP350/071/075 U



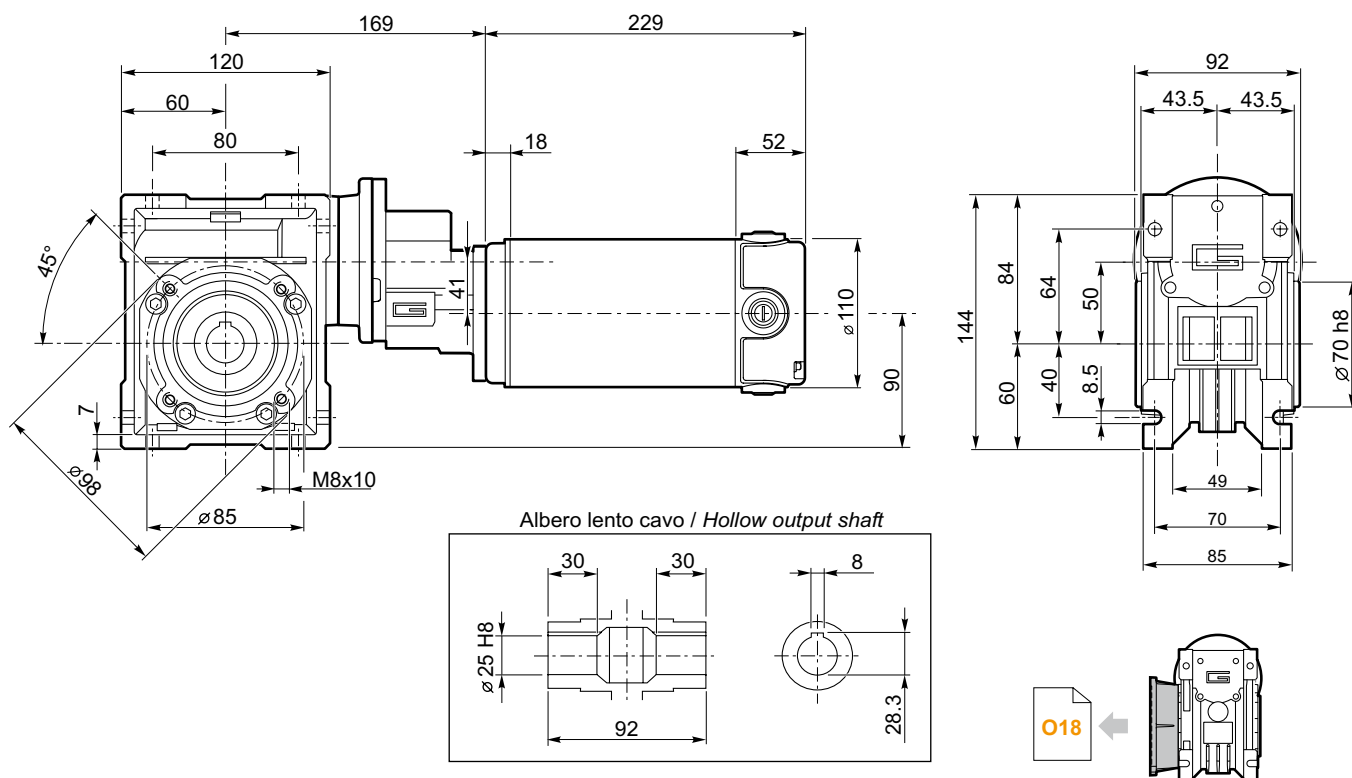
ECMP350/071/075 F



Dimensioni

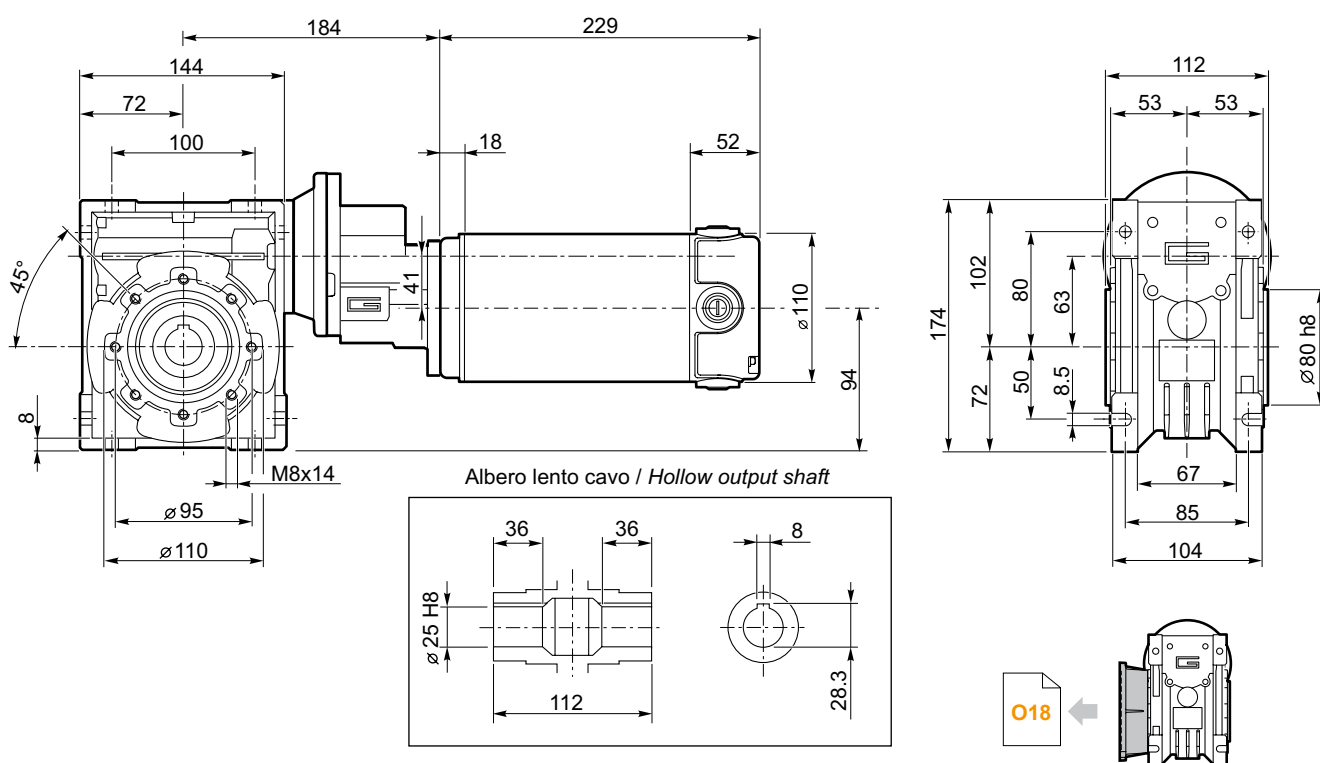
Dimensions

ECMP600/071/050 U

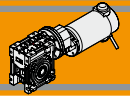


ECMP600/071/050 F
ECMP600/071/050 FL
ECMP600/071/050 FB

ECMP600/071/063 U



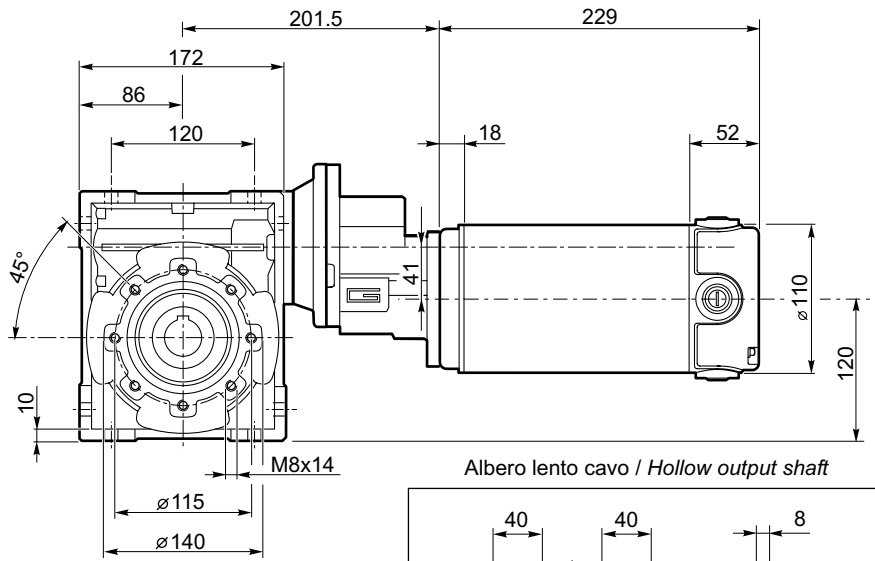
ECMP600/071/063 F
ECMP600/071/063 FL
ECMP600/071/063 FB



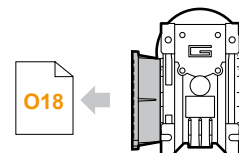
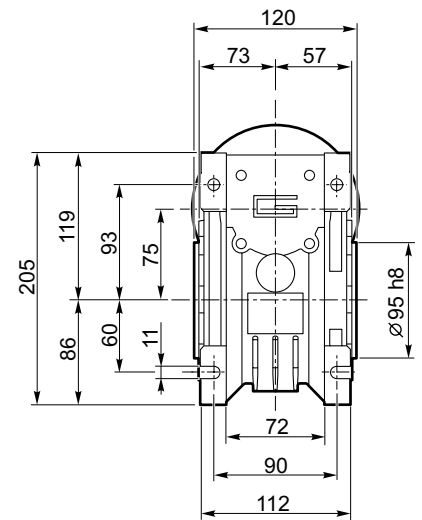
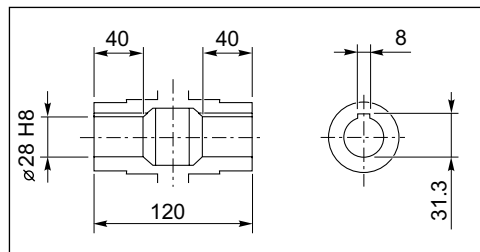
Dimensioni

Dimensions

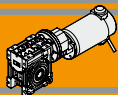
ECMP600/071/075 U



Albero lento cavo / Hollow output shaft



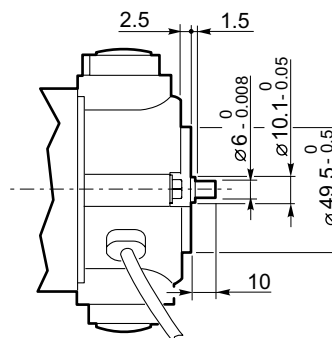
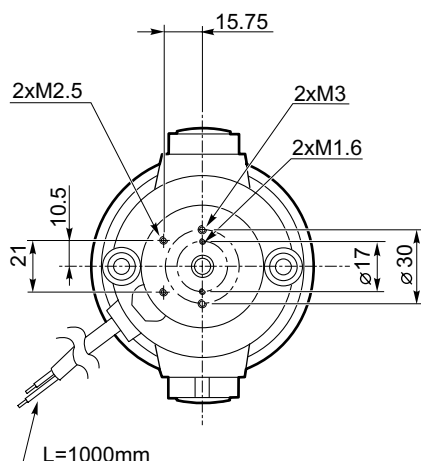
ECMP600/071/075 F



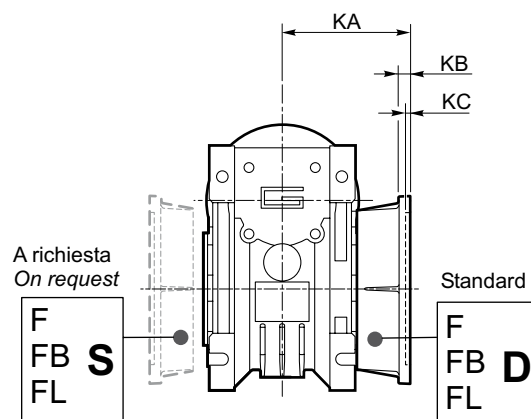
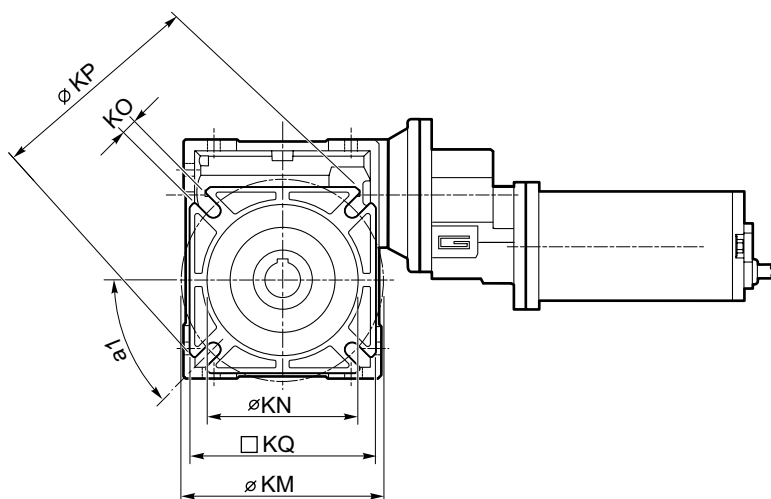
Dimensioni

Dimensions

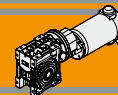
**EC100.24E
EC180.24E**



ECMP.../... F... Flange uscita / Output flanges



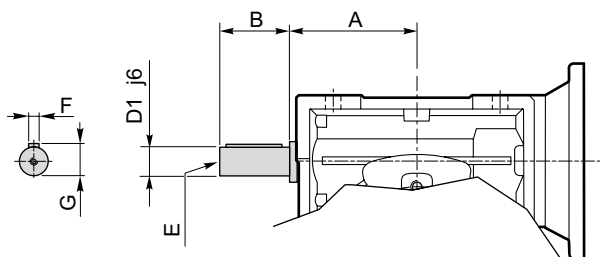
CMP	CMP..F									CMP..FB								CMP..FL							
	a1	KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC	KM	KN H8	KO	KP	KQ
056/030	45°	54.5	6	4	68	50	6.5(n.4)	80	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
056/040 063/040	45°	67	7.5	4	80-95	60	9(n.4)	110	95	80	8.5	5	115-125	95	9.5(n.4)	140	112	97	7.5	4.5	80-95	60	9(n.4)	110	95
063/050 071/050	45°	90	9	5	90-110	70	11(n.4)	125	110	89	9	5	130-145	110	9.5(n.4)	160	132	120	9	5	90-110	70	11(n.4)	125	110
063/063 071/063	45°	82	10	6	150-160	115	11(n.4)	180	142	98	10	5	165-180	130	11(n.4)	200	160	112	10	6	150-160	115	11(n.4)	180	142
071/075	45°	111	13	6	165-180	130	14(n.4)	200	170	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	



Opzioni

Options

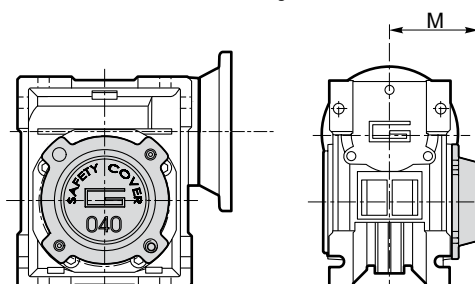
VS - Vite sporgente / Extended input shaft



CMP	A	B	D ₁ j6	E	F	G
056/030	45	20	9	M4	3	10.2
056/040 063/040	53	23	11	M5	4	12.5
063/050	64	30	14	M6	5	16
063/063 071/063 080/063	75	40	19	M6	6	21.5
071/075	90	50	24	M8	8	27

Costruito su richiesta
 Built on request

SC - Safety cover



	M
CM 030	47
CM 040	54.5
CM 050	62.5
CM 063	73
CM 075	79

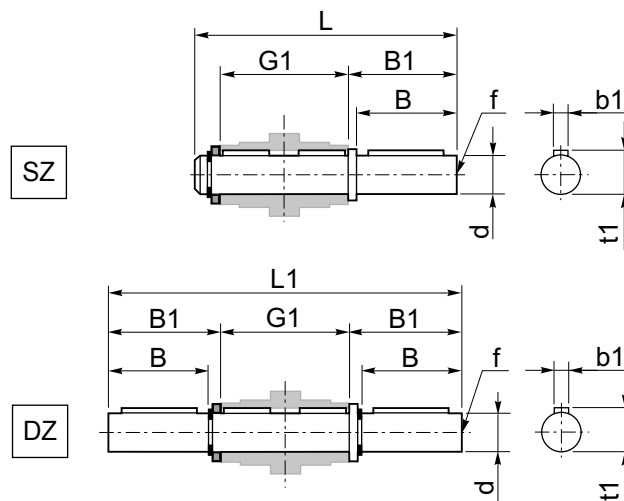
Accessori

Accessories

Albero lento semplice e doppio

CMP	d h7	B	B1	G1	L	L1	f	b1	t1
056/030	14	30	32.5	63	102	128	M6	5	16
056/040 063/040	18	40	43	78	128	164	M6	6	20.5
063/050	25	50	53.5	92	153	199	M10	8	28
063/063 071/063 080/063	25	50	53.5	112	173	219	M10	8	28
071/075	28	60	63.5	120	192	247	M10	8	31

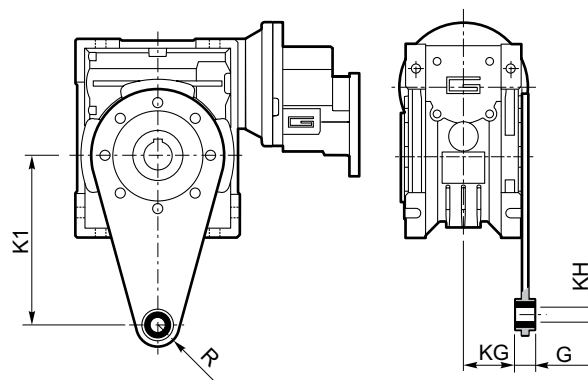
Single and double output shaft

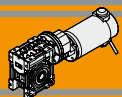


Braccio di reazione

CMP	K1	G	KG	KH	R
056/030	85	14	23	8	15
056/040 063/040	100	14	31	10	18
063/050	100	14	38	10	18
063/063 071/063 080/063	150	14	47.5	10	18
071/075	200	25	46.5	20	30

Torque arm

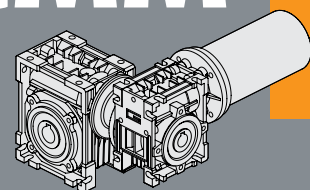




ECMP

MOTORIDUTTORI C.C. CON PRECOPPIA
PERMANENT MAGNETS D.C. PRE-STAGE GEARMOTORS

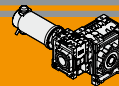
Note



MOTORIDUTTORI C.C. COMBINATI

PERMANENT MAGNETS D.C. COMBINATION GEARMOTORS

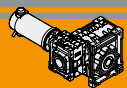




Indice	Index	Pag. Page
Caratteristiche tecniche	<i>Technical features</i>	P2
Designazione	<i>Classification</i>	P2
Simbologia	<i>Symbols</i>	P2
Esecuzioni di montaggio	<i>Mounting executions</i>	P2
Combinazioni rapporti	<i>Combination ratio</i>	P3
Lubrificazione	<i>Lubrication</i>	P3
Dati tecnici per servizio S2	<i>Technical data for S2 duty</i>	P4
Motori applicabili	<i>IEC Motor adapters</i>	P9
Dimensioni	<i>Dimensions</i>	P10
Accessori	<i>Accessories</i>	P24
Opzioni	<i>Options</i>	P24

Questa sezione annulla e sostituisce ogni precedente edizione o revisione. Qualora questa sezione non Vi sia giunta in distribuzione controllata, l'aggiornamento dei dati ivi contenuto non è assicurato. **In tal caso la versione più aggiornata è disponibile sul nostro sito internet www.transtecno.com**

*This section replaces any previous edition and revision. If you obtained this catalogue other than through controlled distribution channels, the most up to date content is not guaranteed. **In this case the latest version is available on our web site www.transtecno.com***

**ECMM****MOTORIDUTTORI C.C. COMBINATI**
PERMANENT MAGNETS D.C. COMBINATION GEARMOTORS**Caratteristiche tecniche****Technical features**

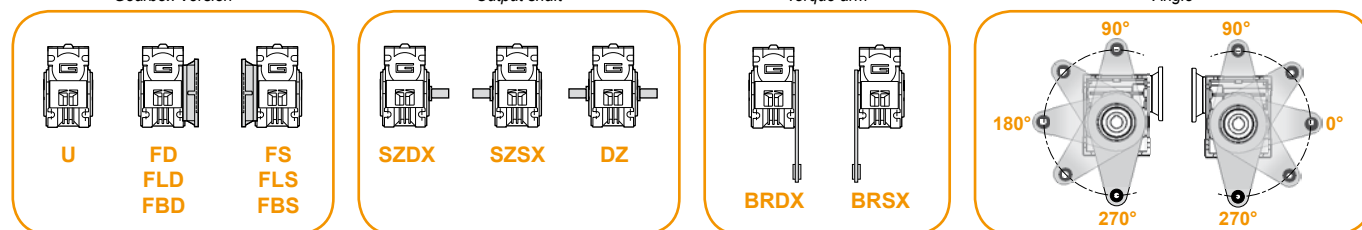
Le caratteristiche principali dei motoriduttori a corrente continua della serie ECMM sono:

The main features of ECMM DC gearmotor range are:

- Alimentazione in bassa tensione 12/24Vcc
- Possibilità di montaggio encoder
- Potenze motore disponibili da 100 a 800W S2
- Magneti in ferrite
- Carcassa in pressofusione di alluminio nelle grandezze 026, 030, 040, 050, 063, 075, 090 e 110. La grandezza 130 è costruita con carcassa in ghisa
- Lubrificazione permanente con olio sintetico
- Low voltage power supply 12/24Vdc
- Suitable for encoder assembly
- Motor power ratings available from 100 up to 800W S2
- Ferrite magnets
- Die cast aluminium housing on sizes 026, 030, 040, 050, 063, 075, 090 and 110. Cast iron housing on size 130
- Permanent synthetic oil long life lubrication

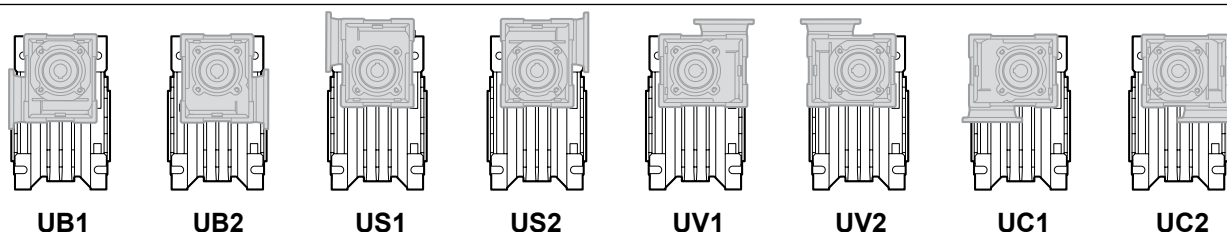
Designazione**Classification**

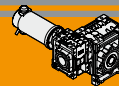
MOTORIDUTTORE / GEARMOTOR															
ECMM	100/026/026					U	150	SZDX	BRSX	90	B3	UB1	120	VS1	
Tipo Type	Grandezza Size					Versione Version	Rapporto Ratio	Albero di uscita Output shaft	Braccio di reazione Torque arm	Angolo Angle	Pos. di montaggio Mounting position	Esecuzione di montaggio Mounting execution	Versione motore Motor version	Opzioni Options	
	ECMM	070/026/026	100/026/026	180/026/040	250/030/040	350/030/040	U	vedi tabelle	SZDX	BRDX	0°	B3	UB1	120	VS1 VS2
	070/026/030	100/026/030	180/026/050	250/030/050	350/030/050	FD	SZSX		BRSX	90°	B8	UB2	240		
	070/026/040	100/026/040	180/030/040	250/030/063	350/030/063	FS	see tables	DZ		180°	B6	US1	24E		
	070/026/050	100/026/050	180/030/050	250/040/075	350/040/075	FLD				270°	B7	US2			
	070/030/040	100/030/040	180/030/063	250/040/090	350/040/090	FLS					V5	UV1			
	070/030/050	100/030/050	180/040/075	250/050/110	350/050/110	FBD				V6	UV2				
	070/030/063	100/030/063	180/040/090		350/063/130	FBS					UC1				
	070/040/075	100/040/075	180/050/110								UC2				
	070/040/090	100/040/090													
					600/040/075										
					600/040/090										
					600/050/110										
					600/063/130										

Versione Riduttore
Gearbox VersionAlbero di uscita
Output shaftBraccio di reazione
Torque armAngolo
Angle**Simbologia****Symbols**

n_1 [min⁻¹] Velocità in ingresso / Input speed
 n_2 [min⁻¹] Velocità in uscita / Output speed
i Rapporto di riduzione / Ratio
 P_1 [kW] Potenza in entrata / Input power

M_2 [Nm] Coppia in uscita in funzione di P_1 / Output torque referred to P_1
sf Fattore di servizio / Service factor
 R_2 [N] Carico radiale ammissibile in uscita / Permitted output radial load
 A_2 [N] Carico assiale ammissibile in uscita / Permitted output axial load

Esecuzioni di montaggio**Mounting executions**



Combinazioni rapporti

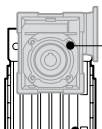
Combination ratio

CMM 026/026 - CMM 026/030 - CMM 026/040 - CMM 026/050												
	i (i ₁ x i ₂)											
	150	225	300	450	600	900	1200	1500	1800	2400	3000	3600
i ₁	10	15	10	15	20	30	40	50	60	60	60	60
i ₂	15	15	30	30	30	30	30	30	30	40	50	60

CMM 030/040 - CMM 030/050 - CMM 030/063 - CMM 040/075 - CMM 040/090 - CMM 050/110 - CMM 063/130																
	i (i ₁ x i ₂)															
	75	100	150	200	250	300	400	500	600	750	900	1200	1500	1800	2400	3000
i ₁	7.5	10	10	10	10	10	10	10	20	25	30	40	50	60	60	60
i ₂	10	10	15	20	25	30	40	50	30	30	30	30	30	30	40	50

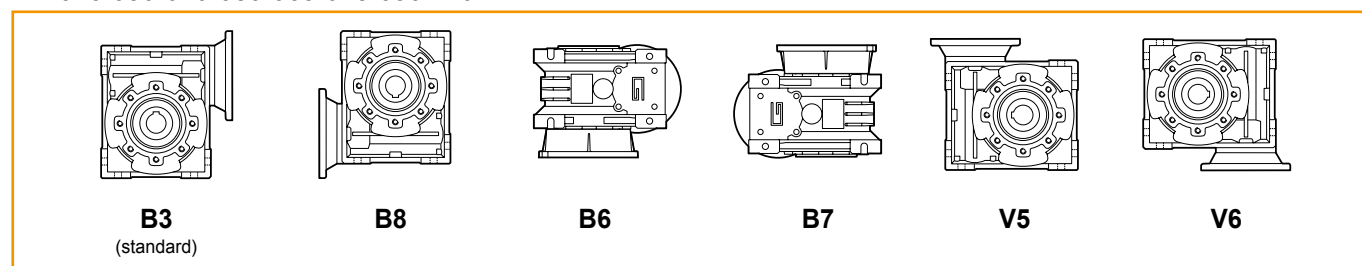
Lubrificazione

Lubrication

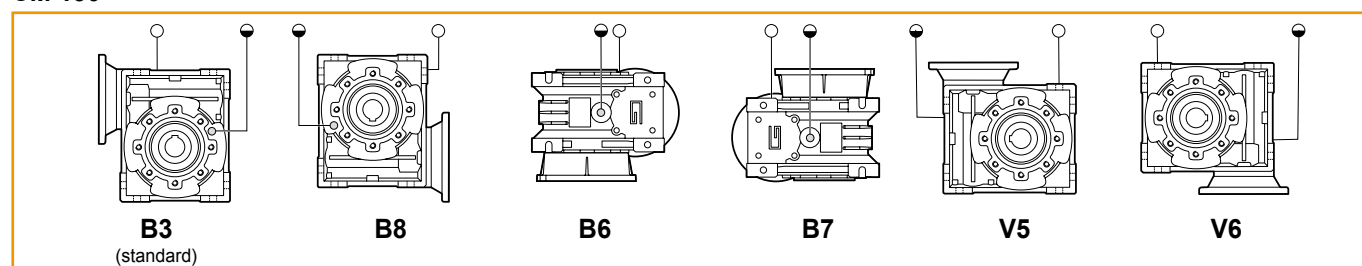
		CMM										
		026/026	026/030	026/040	026/050	030/040	030/050	030/063	040/075	040/090	050/110	063/130
	1	026				030			040		050	063
	Lubrificazione a vita / Life lubricated											
	2	026	030	040	050	040	050	063	075	090	110	130
		Lubrificazione a vita / Life lubricated										

Posizioni di montaggio / Mounting positions

CM 026-030-040-050-063-075-090-110



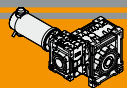
CM 130



○ Sfiato e tappo di riempimento / Breather and filling plug
 ● Livello olio / Oil level plug

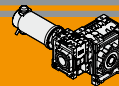
Quantità di olio (litri) / Oil quantity (litres)						
	B3	B8	B6	B7	V5	V6
CM026				0.02		
CM030				0.03		
CM040				0.07		
CM050				0.1		
CM063				0.25		
CM075				0.4		
CM090				0.7		
CM110				1.1		
CM130	4.5	3.3	3.5	3.5	4.5	3.3

Lubrificati a vita
 Life lubrication

**ECMM****MOTORIDUTTORI C.C. COMBINATI**
PERMANENT MAGNETS D.C. COMBINATION GEARMOTORS**Dati tecnici per servizio S2****Technical data for S2 duty**

P_1 [W]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i		Versione motore Motor version	P_1 [W]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i		Versione motore Motor version
100							100						
(3000 min ⁻¹)	20.0	26	1.0	150	ECMM 070/026/026	120/240	(3000 min ⁻¹)	40.0	15	5.5	75	ECMM 070/030/040	120/240
	13.3	26	1.0	225				30.0	20	4.2	100		
	10.0	27	1.0	300				20.0	28	3.2	150		
	6.7	27	1.0	450				15.0	36	2.1	200		
	5.0	27	1.0	600				12.0	43	1.6	250		
	3.3	27	1.0	900				10.0	46	2.0	300		
	2.5	27	1.0	1200				7.5	55	1.3	400		
	2.0	27	1.0	1500				6.0	63	1.1	500		
	1.7	27	1.0	1800				5.0	86	1.0	600		
	1.3	22	1.0	2400				4.0	103	0.9	750		
	1.0	20	1.0	3000				3.3	118	0.8	900		
	0.8	18	1.0	3600				2.5	74	1.0	1200		
	20.0	26	1.5	150	ECMM 070/026/030	120/240		2.0	90	1.0	1500		
	13.3	39	1.0	225				1.7	90	1.0	1800		
	10.0	40	1.0	300				1.3	74	1.0	2400		
	6.7	40	1.0	450				1.0	68	1.0	3000		
	5.0	40	1.0	600				15.0	36	3.8	200	ECMM 070/030/050	120/240
	3.3	40	1.0	900				12.0	43	2.9	250		
	2.5	40	1.0	1200				10.0	46	3.5	300		
	2.0	40	1.0	1500				7.5	57	2.4	400		
	1.7	40	1.0	1800				6.0	64	2.0	500		
	1.3	34	1.0	2400				5.0	87	1.9	600		
	1.0	30	1.0	3000				4.0	105	1.5	750		
	0.8	27	1.0	3600				3.3	120	1.4	900		
	20.0	27	3.2	150	ECMM 070/026/040	120/240		2.5	146	0.9	1200		
	13.3	40	2.2	225				2.0	175	0.9	1500		
	10.0	45	2.0	300				1.7	201	0.8	1800		
	6.7	66	1.4	450				1.3	135	1.0	2400		
	5.0	85	1.1	600				1.0	125	1.0	3000		
	3.3	90	1.0	900				4.0	109	2.8	750	ECMM 070/030/063	120/240
	2.5	90	1.0	1200				3.3	124	2.5	900		
	2.0	90	1.0	1500				2.5	149	1.7	1200		
	1.7	90	1.0	1800				2.0	181	1.7	1500		
	1.3	74	1.0	2400				1.7	208	1.5	1800		
	1.0	68	1.0	3000				1.3	249	1.0	2400		
	0.8	62	1.0	3600				1.0	288	0.8	3000		
	20.0	28	5.7	150	ECMM 070/026/050	120/240		2.5	163	2.6	1200	ECMM 070/040/075	120/240
	13.3	42	3.9	225				2.0	202	2.5	1500		
	10.0	46	3.5	300				1.7	232	2.2	1800		
	6.7	67	2.4	450				1.3	280	1.5	2400		
	5.0	86	1.9	600				1.0	325	1.2	3000		
	3.3	118	1.4	900				1.3	300	2.5	2400	ECMM 070/040/090	120/240
	2.5	147	1.1	1200				1.0	350	1.8	3000		
	2.0	162	1.0	1500									
	1.7	162	1.0	1800									
	1.3	135	1.0	2400									
	1.0	125	1.0	3000									
	0.8	113	1.0	3600									

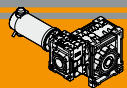
Nota: Verificare sempre che la coppia M_2 utilizzata non ecceda il valore indicato nelle caselle in grigio**Note:** Please check that the output torque M_2 does not exceed the value into the grey areas



Dati tecnici per servizio S2

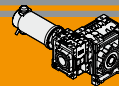
Technical data for S2 duty

P_1 [W]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i		Versione motore Motor version	P_1 [W]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i		Versione motore Motor version
140							140						
(3000 min ⁻¹)	20.0	26	1.0	150	ECMM 100/026/026	120/240	(3000 min ⁻¹)	40.0	21	3.9	75	ECMM 100/030/040	120/240
	13.3	26	1.0	225				30.0	28	3.0	100		
	10.0	27	1.0	300				20.0	38	2.3	150		
	6.7	27	1.0	450				15.0	50	1.5	200		
	5.0	27	1.0	600				12.0	59	1.1	250		
	3.3	27	1.0	900				10.0	63	1.4	300		
	2.5	27	1.0	1200				7.5	77	1.0	400		
	2.0	27	1.0	1500				6.0	87	0.8	500		
	1.7	27	1.0	1800				5.0	119	0.8	600		
	1.3	22	1.0	2400				4.0	90	1.0	750		
	1.0	20	1.0	3000				3.3	90	1.0	900		
	0.8	18	1.0	3600				2.5	74	1.0	1200		
	20.0	37	1.1	150	ECMM 100/026/030	120/240		2.0	90	1.0	1500		
	13.3	39	1.0	225				1.7	90	1.0	1800		
	10.0	40	1.0	300				1.3	74	1.0	2400		
	6.7	40	1.0	450				1.0	68	1.0	3000		
	5.0	40	1.0	600				15.0	50	2.7	200	ECMM 100/030/050	120/240
	3.3	40	1.0	900				12.0	59	2.1	250		
	2.5	40	1.0	1200				10.0	64	2.5	300		
	2.0	40	1.0	1500				7.5	78	1.7	400		
	1.7	40	1.0	1800				6.0	89	1.4	500		
	1.3	34	1.0	2400				5.0	121	1.3	600		
	1.0	30	1.0	3000				4.0	146	1.1	750		
	0.8	27	1.0	3600				3.3	166	1.0	900		
	20.0	38	2.3	150	ECMM 100/026/040	120/240		2.5	202	0.7	1200		
	13.3	55	1.6	225				2.0	243	0.7	1500		
	10.0	63	1.4	300				1.7	162	1.0	1800		
	6.7	92	1.0	450				1.3	135	1.0	2400		
	5.0	90	1.0	600				1.0	125	1.0	3000		
	3.3	90	1.0	900				6.0	92	2.5	500	ECMM 100/030/063	120/240
	2.5	90	1.0	1200				5.0	125	2.5	600		
	2.0	90	1.0	1500				4.0	151	2.1	750		
	1.7	90	1.0	1800				3.3	172	1.8	900		
	1.3	74	1.0	2400				2.5	206	1.3	1200		
	1.0	68	1.0	3000				2.0	252	1.2	1500		
	0.8	62	1.0	3600				1.7	288	1.1	1800		
	20.0	39	4.1	150	ECMM 100/026/050	120/240		1.3	346	0.8	2400		
	13.3	58	2.8	225				1.0	232	1.0	3000		
	10.0	64	2.5	300				3.3	188	2.7	900	ECMM 100/040/075	120/240
	6.7	93	1.7	450				2.5	226	1.9	1200		
	5.0	120	1.4	600				2.0	280	1.8	1500		
	3.3	164	1.0	900				1.7	322	1.6	1800		
	2.5	162	1.0	1200				1.3	388	1.1	2400		
	2.0	162	1.0	1500				1.0	451	0.8	3000		
	1.7	162	1.0	1800				1.7	337	2.6	1800	ECMM 100/040/090	120/240
	1.3	135	1.0	2400				1.3	415	1.8	2400		
	1.0	125	1.0	3000				1.0	485	1.3	3000		
	0.8	113	1.0	3600									

**ECMM****MOTORIDUTTORI C.C. COMBINATI**
PERMANENT MAGNETS D.C. COMBINATION GEARMOTORS**Dati tecnici per servizio S2****Technical data for S2 duty**

P_1 [W]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i		Versione motore Motor version	P_1 [W]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i		Versione motore Motor version		
250							250								
(3000 min ⁻¹)	20.0	70	1.2	150	ECMM 180/026/040	120/240	(3000 min ⁻¹)	12.0	115	3.3	250	ECMM 180/040/075	120/240/24E		
	13.3	103	0.8	225				10.0	132	3.9	300				
	10.0	116	0.8	300				7.5	159	2.7	400				
	20.0	73	2.2	150	ECMM 180/026/050	120/240		6.0	184	2.0	500				
	13.3	108	1.5	225				5.0	251	2.0	600				
	10.0	118	1.4	300				4.0	302	1.7	750				
	6.7	173	0.9	450				3.3	349	1.5	900				
	5.0	223	0.7	600				2.5	421	1.0	1200				
	40.0	40	2.1	75				ECMM 180/030/040	120/240/24E	2.0	522			1.0	1500
	30.0	52	1.6	100	1.7	599				0.9	1800				
	20.0	71	1.2	150	1.3	432				1.0	2400				
	15.0	92	0.8	200				1.0	378	1.0	3000				
	12.0	67	1.0	250				5.0	263	3.3	600			ECMM 180/040/090	120/240/24E
	10.0	90	1.0	300				4.0	317	2.8	750				
	7.5	74	1.0	400	3.3	366		2.4	900						
	6.0	68	1.0	500				2.5	451	1.7	1200				
	5.0	90	1.0	600				2.0	546	1.6	1500				
	4.0	90	1.0	750				1.7	627	1.4	1800				
	3.3	90	1.0	900				1.3	773	1.0	2400				
	40.0	40	3.9	75				1.0	903	0.7	3000				
	30.0	52	3.0	100				3.3	376	3.9	900			ECMM 180/050/110	24E
	20.0	74	2.2	150	2.5	487		2.7	1200	120/240/24E					
	15.0	94	1.5	200	2.0	571		2.6	1500		120/240/24E				
	12.0	110	1.1	250	1.7	656		2.3	1800			120/240/24E			
	10.0	120	1.4	300	1.3	849		1.6	2400	120/240/24E					
	7.5	146	0.9	400	1.0	996		1.2	3000		120/240/24E				
	6.0	165	0.8	500	350										
	5.0	226	0.7	600	(3000 min ⁻¹)	40.0		55	1.5	75				ECMM 250/030/040	120/240
4.0	162	1.0	750	30.0		72	1.2	100							
3.3	162	1.0	900	20.0		100	0.9	150							
2.5	135	1.0	1200	15.0		74	1.0	200							
2.0	162	1.0	1500	12.0		67	1.0	250							
1.7	162	1.0	1800	10.0		90	1.0	300							
15.0	92	2.8	200	ECMM 180/030/063		120/240/24E	7.5	74	1.0	400					
12.0	108	2.1	250				6.0	68	1.0	500					
10.0	124	2.5	300				5.0	90	1.0	600					
7.5	149	1.7	400				4.0	90	1.0	750					
6.0	172	1.3	500				3.3	90	1.0	900					
5.0	233	1.3	600				2.5	74	1.0	1200					
4.0	281	1.1	750				2.0	90	1.0	1500					
3.3	320	1.0	900				40.0	56	2.8	75			ECMM 250/030/050	120/240	
2.5	384	0.7	1200				30.0	73	2.1	100					
2.0	468	0.7	1500	20.0		104	1.5	150							
1.7	310	1.0	1800				15.0	131	1.0	200					
1.3	260	1.0	2400				12.0	154	0.8	250					
1.0	232	1.0	3000				10.0	168	1.0	300					

Nota: Verificare sempre che la coppia M_2 utilizzata non ecceda il valore indicato nelle caselle in grigio**Note:** Please check that the output torque M_2 does not exceed the value into the grey areas



Dati tecnici per servizio S2

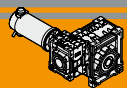
Technical data for S2 duty

P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version	P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version		
350							350								
(3000 min ⁻¹)	7.5	204	0.7	400	ECMM 250/030/050	120/240	(3000 min ⁻¹)	6.0	301	3.8	500	ECMM 250/050/110	120/240		
	6.0	125	1.0	500				5.0	378	3.9	600				
	5.0	162	1.0	600				4.0	461	3.2	750				
	4.0	162	1.0	750				3.3	527	2.8	900				
	3.3	162	1.0	900				2.5	681	1.9	1200				
	2.5	135	1.0	1200				2.00	799	1.9	1500				
	2.00	162	1.0	1500				1.67	918	1.6	1800				
								1.25	1188	1.1	2400				
	30.0	74	3.9	100	ECMM 250/030/063	120/240		1.00	1394	0.8	3000				
	20.0	103	3.0	150											
	15.0	129	2.0	200											
	12.0	152	1.5	250											
	10.0	173	1.8	300											
	7.5	208	1.2	400											
	6.0	241	1.0	500											
	5.0	327	0.9	600											
	4.0	393	0.8	750	ECMM 250/040/075	120/240									
	3.3	448	0.7	900											
	2.5	260	1.0	1200											
	2.00	310	1.0	1500											
	15.0	134	3.2	200											
	12.0	161	2.4	250											
	10.0	184	2.8	300											
	7.5	222	1.9	400											
	6.0	258	1.5	500	ECMM 250/040/090	120/240									
	5.0	351	1.5	600											
	4.0	423	1.2	750											
	3.3	489	1.0	900											
2.5	590	0.7	1200												
2.0	730	0.7	1500												
1.7	511	1.0	1800												
1.3	432	1.0	2400												
1.0	378	1.0	3000												
12.0	168	3.9	250	ECMM 250/040/090	120/240										
10.0	193	4.6	300												
7.5	238	3.2	400												
6.0	278	2.3	500												
5.0	368	2.4	600												
4.0	444	2.0	750												
3.3	512	1.7	900												
2.5	631	1.2	1200												
2.00	765	1.1	1500												
1.67	878	1.0	1800												
1.25	1082	0.7	2400												
1.00	635	1.0	3000												

500							500										
(3000 min ⁻¹)	40.0	78	1.1	75	ECMM 350/030/040	120/240	(3000 min ⁻¹)	40.0	78	1.1	75	ECMM 350/030/040	120/240				
	30.0	101	0.8	100				30.0	101	0.8	100						
	20.0	87	1.0	150				20.0	87	1.0	150						
	15.0	74	1.0	200				15.0	74	1.0	200						
	12.0	67	1.0	250				12.0	67	1.0	250						
	10.0	90	1.0	300				10.0	90	1.0	300						
	7.5	74	1.0	400				7.5	74	1.0	400						
	40.0	79	2.0	75	ECMM 350/030/050	120/240		40.0	79	2.0	75	ECMM 350/030/050	120/240				
	30.0	103	1.5	100				30.0	103	1.5	100						
	20.0	146	1.1	150				20.0	146	1.1	150						
	15.0	184	0.7	200				15.0	184	0.7	200						
	12.0	216	0.6	250				12.0	216	0.6	250						
	10.0	235	0.7	300				10.0	235	0.7	300						
	7.5	135	1.0	400				7.5	135	1.0	400						
	6.0	125	1.0	500													
	5.0	162	1.0	600	ECMM 350/030/063	120/240		5.0	162	1.0	600	ECMM 350/030/063	120/240				
	4.0	162	1.0	750				4.0	162	1.0	750						
	3.3	162	1.0	900				3.3	162	1.0	900						
	40.0	80	3.6	75				40.0	80	3.6	75						
	30.0	104	2.8	100				30.0	104	2.8	100						
	20.0	144	2.1	150				20.0	144	2.1	150						
	15.0	181	1.4	200				15.0	181	1.4	200						
	12.0	213	1.1	250													
	10.0	243	1.3	300													
	7.5	292	0.9	400													
	6.0	338	0.7	500													
5.0	458	0.7	600														
4.0	310	1.0	750														
3.3	310	1.0	900														
2.5	260	1.0	1200														
2.0	310	1.0	1500														

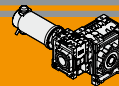
Nota: Verificare sempre che la coppia M2 utilizzata non ecceda il valore indicato nelle caselle in grigio

Note: Please check that the output torque M2 does not exceed the value into the grey areas

**ECMM****MOTORIDUTTORI C.C. COMBINATI**
PERMANENT MAGNETS D.C. COMBINATION GEARMOTORS**Dati tecnici per servizio S2****Technical data for S2 duty**

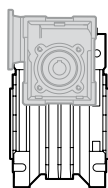
P_1 [W]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i		Versione motore Motor version	P_1 [W]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i		Versione motore Motor version
500							800						
(3000 min ⁻¹)	20.0	150	3.3	150	ECMM 350/040/075	120/240	(3000 min ⁻¹)	40.0	132	3.5	75	ECMM 600/040/075	120/240
	15.0	188	2.3	200				30.0	172	2.7	100		
	12.0	225	1.7	250				20.0	242	2.0	150		
	10.0	258	2.0	300				15.0	305	1.4	200		
	7.5	311	1.4	400				12.0	365	1.1	250		
	6.0	362	1.0	500				10.0	418	1.2	300		
	5.0	493	1.0	600				7.5	504	0.9	400		
	4.0	593	0.9	750				6.0	378	1.0	500		
	3.3	685	0.7	900				5.0	511	1.0	600		
	2.5	432	1.0	1200				4.0	511	1.0	750		
	2.0	511	1.0	1500				3.3	511	1.0	900		
	1.7	511	1.0	1800				2.5	432	1.0	1200		
	1.3	432	1.0	2400									
	12.0	236	2.8	250	ECMM 350/040/090	120/240		20.0	249	3.3	150	ECMM 600/040/090	120/240
	10.0	270	3.2	300				15.0	318	2.4	200		
	7.5	333	2.3	400				12.0	381	1.7	250		
	6.0	389	1.6	500				10.0	438	2.0	300		
	5.0	516	1.7	600				7.5	539	1.4	400		
	4.0	622	1.4	750				6.0	630	1.0	500		
	3.3	718	1.2	900				5.0	835	1.1	600		
	2.5	885	0.9	1200				4.0	1006	0.9	750		
	2.0	1072	0.8	1500				3.3	1162	0.8	900		
	1.7	1231	0.7	1800				2.5	755	1.0	1200		
	1.3	755	1.0	2400									
	1.0	635	1.0	3000				12.0	402	3.0	250	ECMM 600/050/110	120/240
								10.0	449	3.3	300		
								7.5	581	2.3	400		
	6.0	421	2.7	500	ECMM 350/050/110	120/240		6.0	682	1.7	500		
	5.0	530	2.8	600				5.0	858	1.7	600		
	4.0	647	2.3	750				4.0	1047	1.4	750		
	3.3	738	2.0	900				3.3	1195	1.2	900		
	2.5	955	1.4	1200				2.5	1545	0.9	1200		
	2.0	1120	1.3	1500				2.0	1812	0.8	1500		
	1.7	1288	1.1	1800				1.7	2083	0.7	1800		
	1.3	1665	0.8	2400				1.3	1320	1.0	2400		
	1.0	1157	1.0	3000				1.0	1157	1.0	3000		
	4.0	645	2.6	750	ECMM 350/063/130	120/240		7.5	563	2.8	400	ECMM 600/063/130	120/240
	3.3	737	2.3	900				6.0	682	2.2	500		
	2.5	938	1.7	1200				5.0	845	2.0	600		
	2.0	1135	1.5	1500				4.0	1044	1.6	750		
	1.7	1306	1.3	1800				3.3	1192	1.4	900		
	1.3	1662	1.0	2400				2.5	1517	1.1	1200		
	1.0	2011	0.7	3000				2.0	1836	0.9	1500		
								1.7	2112	0.8	1800		
								1.3	1600	1.0	2400		
								1.0	1500	1.0	3000		

Nota: Verificare sempre che la coppia M2 utilizzata non ecceda il valore indicato nelle caselle in grigio**Note:** Please check that the output torque M2 does not exceed the value into the grey areas

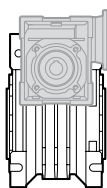


Motori applicabili

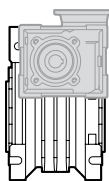
IEC Motor adapters



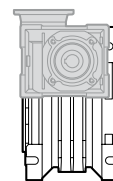
US1



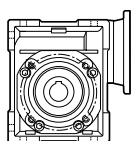
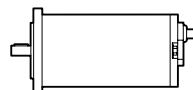
US2



UV1



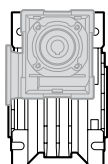
UV2



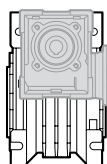
		EC			
		070.120 070.240	100.120 100.240	100.24E	180.120 180.240
CMM	026/026	150 - 3600	150 - 3600	150 - 3600	150 - 3600

150 - 3600

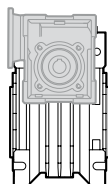
Rapporti di riduzione i
Ratio i



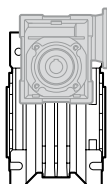
UB1



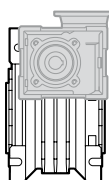
UB2



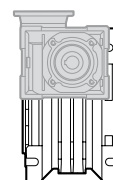
US1



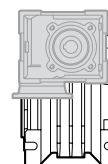
US2



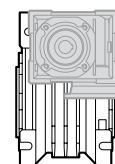
UV1



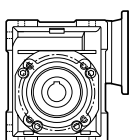
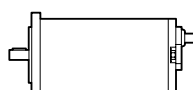
UV2



UC1



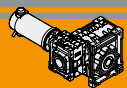
UC2



		EC							
		070.120 070.240	100.120 100.240	100.24E	180.120 180.240	180.24E	250.120 250.240	350.120 350.240	600.120 600.240
CMM	026/030	150 - 3600	150 - 3600	150 - 3600	150 - 3600				
	026/040	150 - 3600	150 - 3600	150 - 3600	150 - 3600				
	026/050	150 - 3600	150 - 3600	150 - 3600	150 - 3600				
	030/040	75 - 3000	75 - 3000	75 - 3000	75 - 3000	75 - 1500	75 - 1500	75 - 1500	
	030/050	75 - 3000	75 - 3000	75 - 3000	75 - 3000	75 - 1500	75 - 1500	75 - 1500	
	030/063	75 - 3000	75 - 3000	75 - 3000	75 - 3000	75 - 1500	100 - 1500	75 - 1500	
	040/075	75 - 3000	75 - 3000	75 - 3000	75 - 3000	75 - 3000	200 - 3000	75 - 3000	75 - 1200
	040/090	75 - 3000	75 - 3000	75 - 3000	75 - 3000	75 - 3000	250 - 3000	75 - 3000	75 - 1200
	050/110				1200 - 3000	75 - 3000	500 - 3000	75 - 3000	75 - 3000
	063/130							75 - 3000	75 - 3000

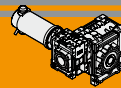
150 - 3600

Rapporti di riduzione i
Ratio i

**ECMM****MOTORIDUTTORI C.C. COMBINATI**
PERMANENT MAGNETS D.C. COMBINATION GEARMOTORS**Dimensioni****Dimensions**

CMM..U - CMM..F - CMM..FB - CMM..FL																	
	A	C	D _{H8}	E	F	G	G1	H	H1	I	I1	K	L	M	N _{h8}	N1	N2
026/026	45	70	12	83	22	47.5	50	35	34	26	26	34	42	55	45	22.5	21
026/030	54	80	14	97	32	47.5	63	40	34	30	26	44	56	65	55	29	21
026/040	70	100	18	121.5	43	47.5	78	50	34	40	26	60	71	75	60	36.5	21
026/050	80	120	25	144	49	47.5	92	60	34	50	26	70	85	85	70	43.5	21
030/040	70	100	18	121.5	43	55	78	50	40	40	30	60	71	75	60	36.5	29
030/050	80	120	25	144	49	55	92	60	40	50	30	70	85	85	70	43.5	29
030/063	100	144	25	174	67	55	112	72	40	63	30	85	104	95	80	53	29
040/075	120	172	28	205	72	70	120	86	50	75	40	90	112	115	95	57	36.5
040/090	140	208	35	238	74	70	140	103	50	90	40	100	130	130	110	67	36.5

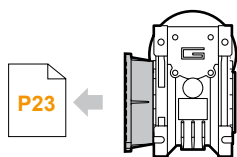
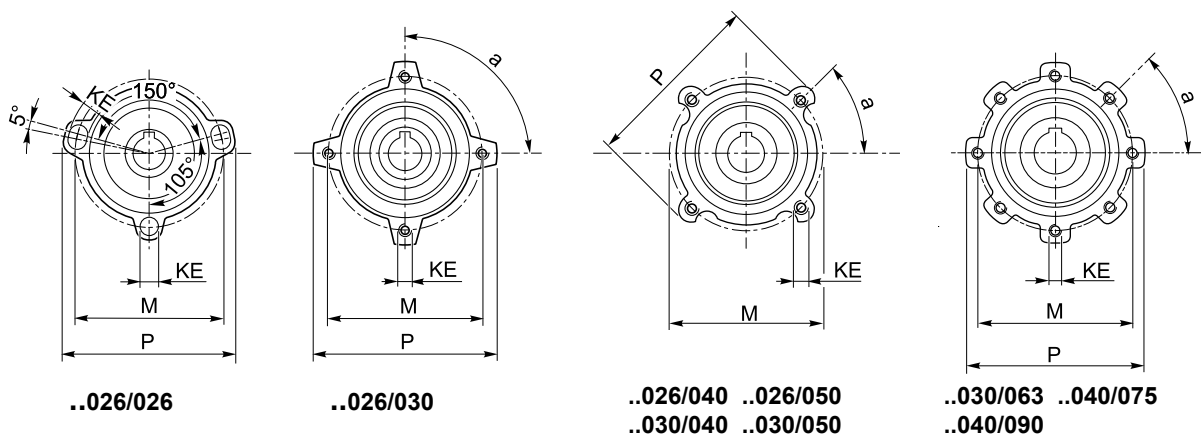
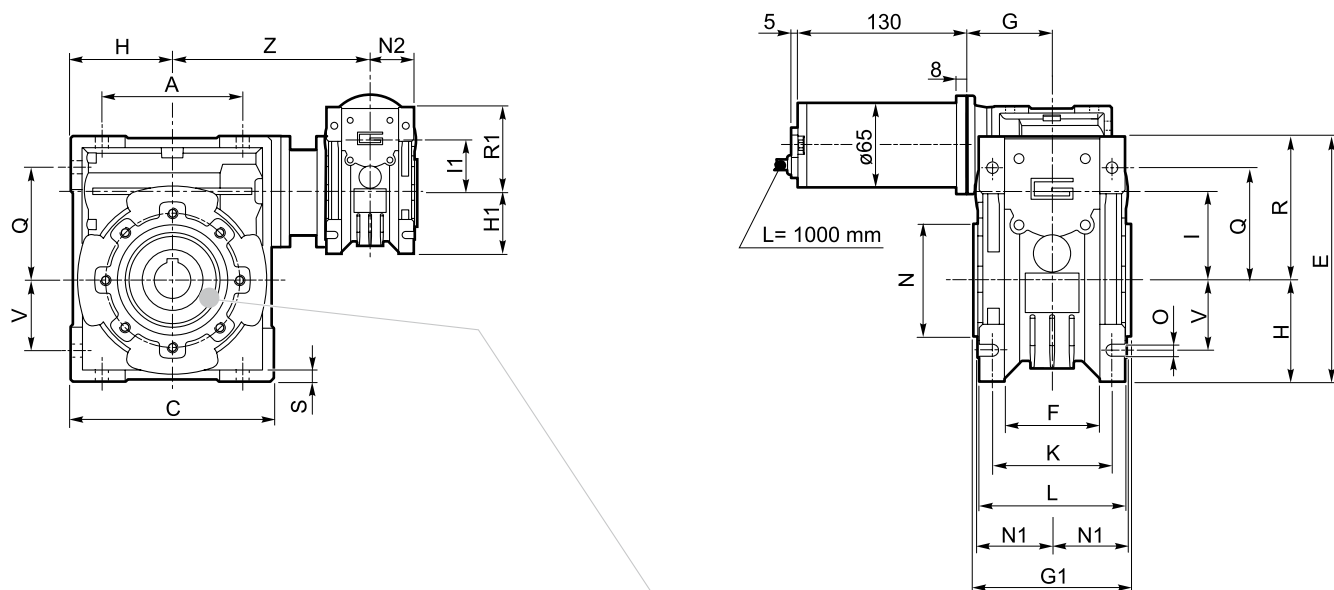
CMM..U - CMM..F - CMM..FB - CMM..FL														
	O	P	Q	R	R1	S	T	V	Z	KE	a	b	t	Kg
026/026	6	—	37	49	49	5	15	21	76	7	—	4	13.8	3.3
026/030	6.5	75	44	57	49	5.5	22	27	81	M6x10(n.4)	90°	5	16.3	4.1
026/040	6.5	87	55	71.5	49	6.5	26	35	91.5	M6x8(n.4)	45°	6	20.8	5.2
026/050	8.5	98	64	84	49	7	30	40	100.5	M8x10(n.4)	45°	8	28.3	6.7
030/040	6.5	87	55	71.5	57	6.5	26	35	122	M6x8(n.4)	45°	6	20.8	5.6
030/050	8.5	98	64	84	57	7	30	40	132	M8x10(n.4)	45°	8	28.3	6.7
030/063	8.5	110	80	102	57	8	36	50	145	M8x14(n.8)	45°	8	28.3	8.7
040/075	11	140	93	119	71.5	10	40	60	165	M8x14(n.8)	45°	8	31.3	13.7
040/090	13	160	102	135	71.5	11	45	70	182	M10x18(n.8)	45°	10	38.3	17.3



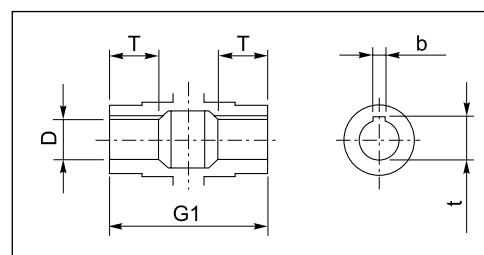
Dimensioni

Dimensions

ECMM070/..../..U

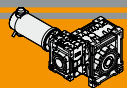


ECMM070/... F
ECMM070/... FL
ECMM070/... FB



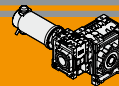
Albero lento cavo / *Hollow output shaft*

ECMM


Dimensioni
Dimensions

CMM..U - CMM..F - CMM..FB - CMM..FL																	
	A	C	D _{H8}	E	F	G	G1	H	H1	I	I1	K	L	M	N _{H8}	N1	N2
026/026	45	70	12	83	22	47.5	50	35	34	26	26	34	42	55	45	22.5	21
026/030	54	80	14	97	32	47.5	63	40	34	30	26	44	56	65	55	29	21
026/040	70	100	18	121.5	43	47.5	78	50	34	40	26	60	71	75	60	36.5	21
026/050	80	120	25	144	49	47.5	92	60	34	50	26	70	85	85	70	43.5	21
030/040	70	100	18	121.5	43	55	78	50	40	40	30	60	71	75	60	36.5	29
030/050	80	120	25	144	49	55	92	60	40	50	30	70	85	85	70	43.5	29
030/063	100	144	25	174	67	55	112	72	40	63	30	85	104	95	80	53	29
040/075	120	172	28	205	72	70	120	86	50	75	40	90	112	115	95	57	36.5
040/090	140	208	35	238	74	70	140	103	50	90	40	100	130	130	110	67	36.5

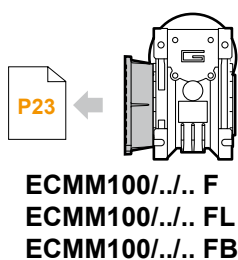
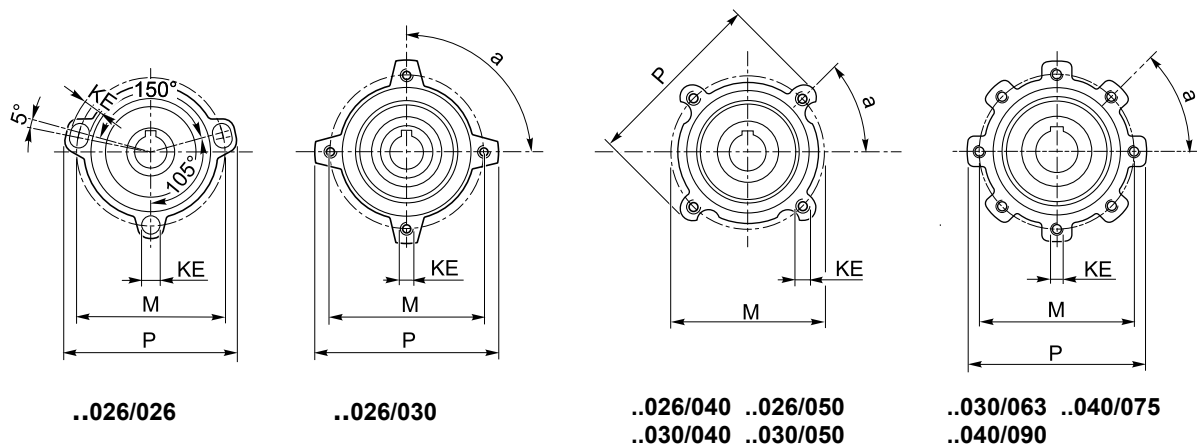
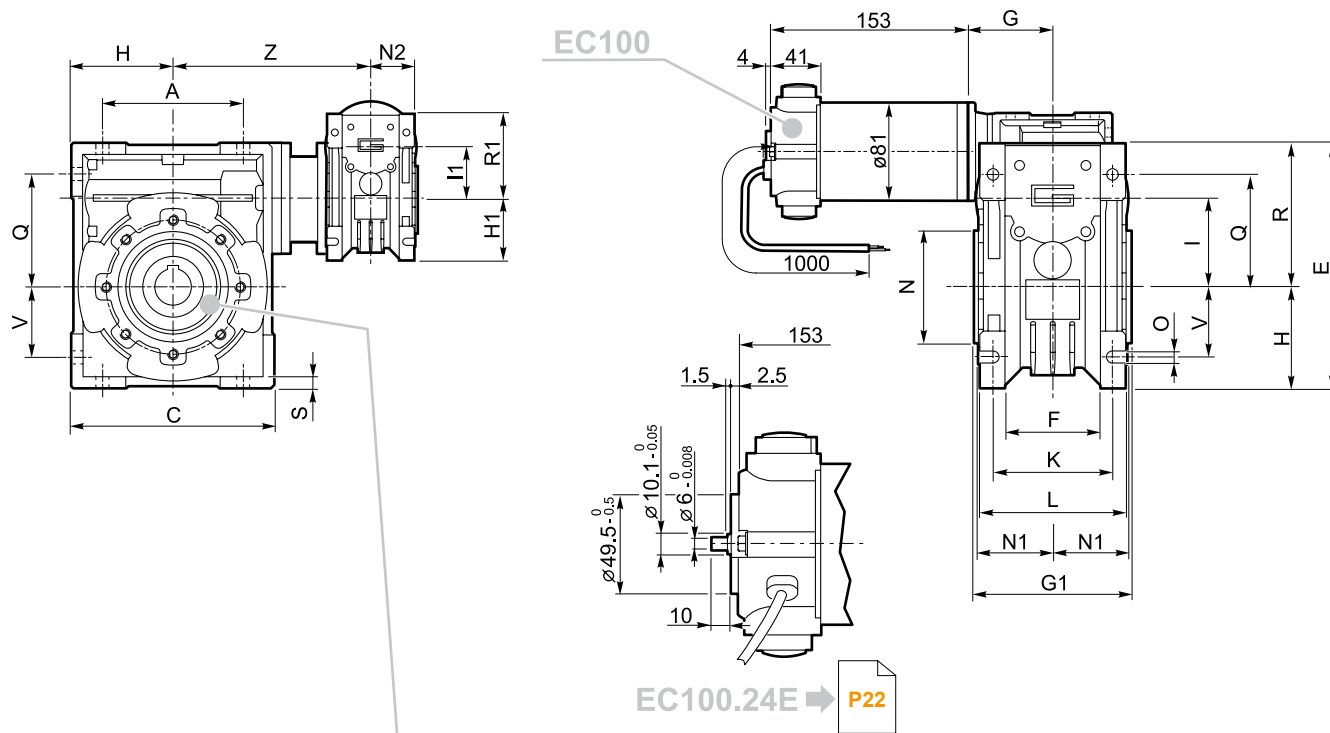
	CMM..U - CMM..F - CMM..FB - CMM..FL													
	O	P	Q	R	R1	S	T	V	Z	KE	a	b	t	Kg
026/026	6	—	37	49	49	5	15	21	76	7	—	4	13.8	4.3
026/030	6.5	75	44	57	49	5.5	22	27	81	M6x10(n.4)	90°	5	16.3	5.1
026/040	6.5	87	55	71.5	49	6.5	26	35	91.5	M6x8(n.4)	45°	6	20.8	6.2
026/050	8.5	98	64	84	49	7	30	40	100.5	M8x10(n.4)	45°	8	28.3	7.7
030/040	6.5	87	55	71.5	57	6.5	26	35	122	M6x8(n.4)	45°	6	20.8	6.6
030/050	8.5	98	64	84	57	7	30	40	132	M8x10(n.4)	45°	8	28.3	7.7
030/063	8.5	110	80	102	57	8	36	50	145	M8x14(n.8)	45°	8	28.3	9.7
040/075	11	140	93	119	71.5	10	40	60	165	M8x14(n.8)	45°	8	31.3	14.7
040/090	13	160	102	135	71.5	11	45	70	182	M10x18(n.8)	45°	10	38.3	18.3



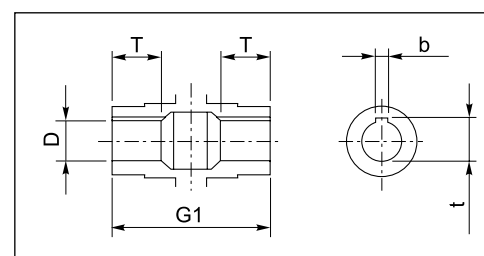
Dimensioni

Dimensions

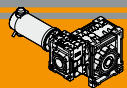
ECMM100/...U



ECMM100/... F
ECMM100/... FL
ECMM100/... FB

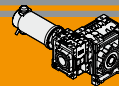


Albero lento cavo / Hollow output shaft


Dimensioni
Dimensions

CMM..U - CMM..F - CMM..FB - CMM..FL																	
	A	C	D _{H8}	E	F	G	G1	H	H1	I	I1	K	L	M	N _{H8}	N1	N2
026/040	70	100	18	121.5	43	47.5	78	50	34	40	26	60	71	75	60	36.5	21
026/050	80	120	25	144	49	47.5	92	60	34	50	26	70	85	85	70	43.5	21
030/040	70	100	18	121.5	43	55	78	50	40	40	30	60	71	75	60	36.5	29
030/050	80	120	25	144	49	55	92	60	40	50	30	70	85	85	70	43.5	29
030/063	100	144	25	174	67	55	112	72	40	63	30	85	104	95	80	53	29
040/075	120	172	28	205	72	70	120	86	50	75	40	90	112	115	95	57	36.5
040/090	140	208	35	238	74	70	140	103	50	90	40	100	130	130	110	67	36.5
050/110	170	252.5	42	295	—	80	155	127.5	60	110	50	115	144	165	130	74	43.5

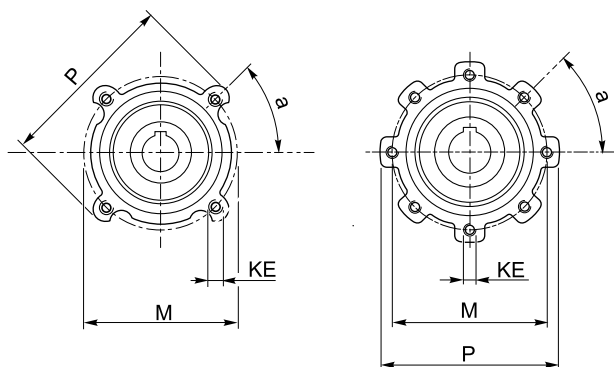
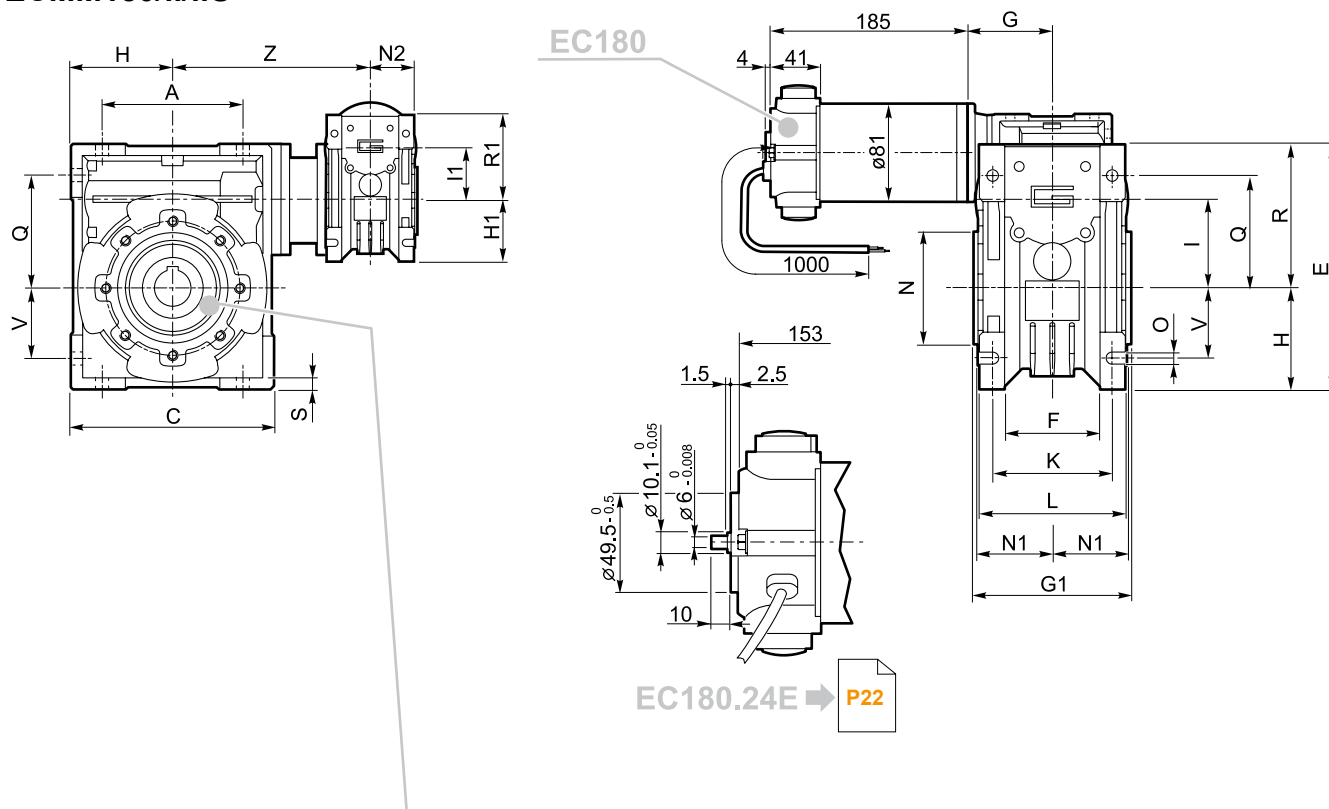
CMM..U - CMM..F - CMM..FB - CMM..FL														
	O	P	Q	R	R1	S	T	V	Z	KE	a	b	t	Kg
026/040	6.5	87	55	71.5	49	6.5	26	35	91.5	M6x8(n.4)	45°	6	20.8	6.9
026/050	8.5	98	64	84	49	7	30	40	100.5	M8x10(n.4)	45°	8	28.3	8.4
030/040	6.5	87	55	71.5	57	6.5	26	35	122	M6x8(n.4)	45°	6	20.8	7.3
030/050	8.5	98	64	84	57	7	30	40	132	M8x10(n.4)	45°	8	28.3	8.4
030/063	8.5	110	80	102	57	8	36	50	145	M8x14(n.8)	45°	8	28.3	10.4
040/075	11	140	93	119	71.5	10	40	60	165	M8x14(n.8)	45°	8	31.3	15.4
040/090	13	160	102	135	71.5	11	45	70	182	M10x18(n.8)	45°	10	38.3	19
050/110	14	200	125	167.5	84	14	50	85	225	M10x18(n.8)	45°	12	45.3	33.6



Dimensioni

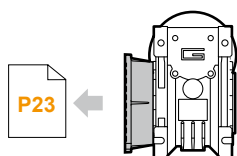
Dimensions

ECMM180/...U

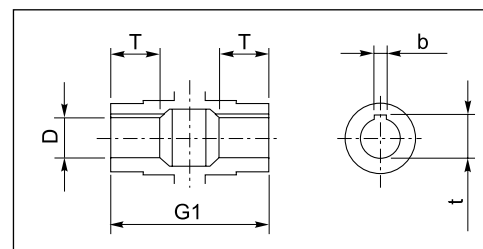


..026/040 ..026/050
 ..030/040 ..030/050

..030/063 ..040/075
 ..040/090 ..050/110

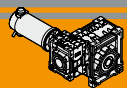


ECMM180/... F
ECMM180/... FL
ECMM180/... FB



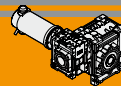
Albero lento cavo / Hollow output shaft

ECMM


ECMM
MOTORIDUTTORI C.C. COMBINATI
PERMANENT MAGNETS D.C. COMBINATION GEARMOTORS
Dimensioni
Dimensions

CMM..U - CMM..F - CMM..FB - CMM..FL																	
	A	C	D _{H8}	E	F	G	G1	H	H1	I	I1	K	L	M	N _{H8}	N1	N2
030/040	70	100	18	121.5	43	55	78	50	40	40	30	60	71	75	60	36.5	29
030/050	80	120	25	144	49	55	92	60	40	50	30	70	85	85	70	43.5	29
030/063	100	144	25	174	67	55	112	72	40	63	30	85	104	95	80	53	29
040/075	120	172	28	205	72	70	120	86	50	75	40	90	112	115	95	57	36.5
040/090	140	208	35	238	74	70	140	103	50	90	40	100	130	130	110	67	36.5
050/110	170	252.5	42	295	—	80	155	127.5	60	110	50	115	144	165	130	74	43.5

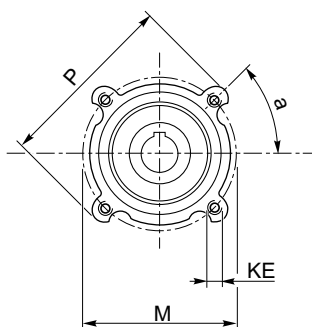
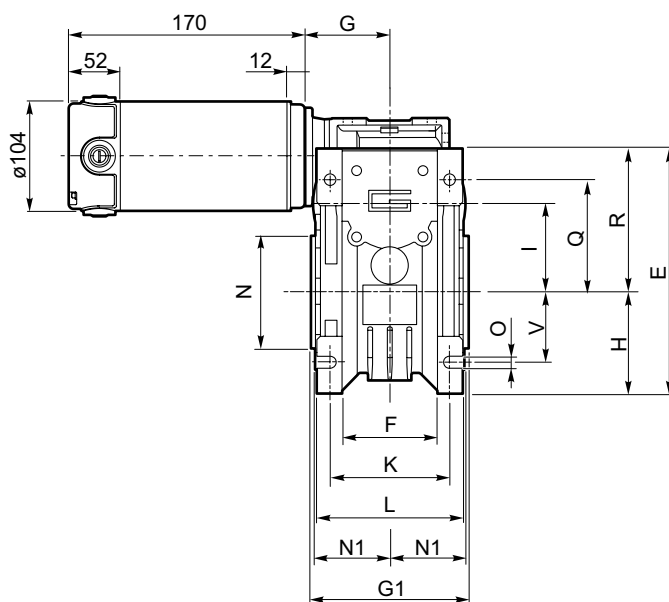
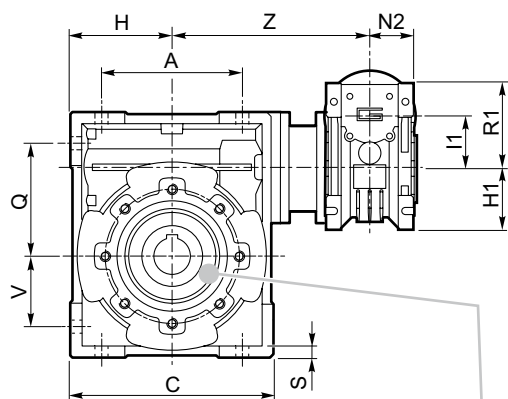
CMM..U - CMM..F - CMM..FB - CMM..FL														
	O	P	Q	R	R1	S	T	V	Z	KE	a	b	t	Kg
030/040	6.5	87	55	71.5	57	6.5	26	35	122	M6x8(n.4)	45°	6	20.8	9.2
030/050	8.5	98	64	84	57	7	30	40	132	M8x10(n.4)	45°	8	28.3	10.3
030/063	8.5	110	80	102	57	8	36	50	145	M8x14(n.8)	45°	8	28.3	12.3
040/075	11	140	93	119	71.5	10	40	60	165	M8x14(n.8)	45°	8	31.3	17.3
040/090	13	160	102	135	71.5	11	45	70	182	M10x18(n.8)	45°	10	38.3	20.9
050/110	14	200	125	167.5	84	14	50	85	225	M10x18(n.8)	45°	12	45.3	35.5



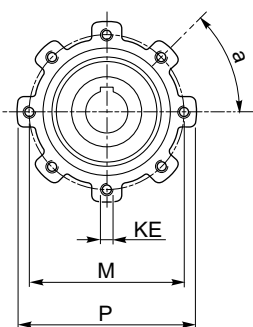
Dimensioni

Dimensions

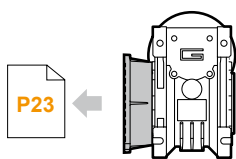
ECMM250/...U



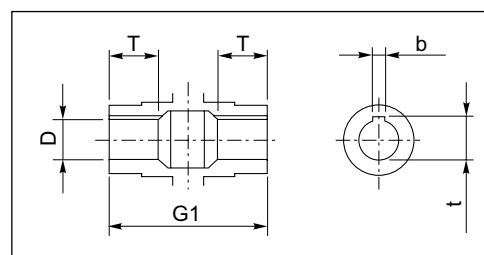
..030/040 ..030/050



..030/063 ..040/075
 ..040/090 ..050/110

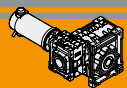


ECMM250/... F
ECMM250/... FL
ECMM250/... FB



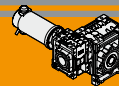
Albero lento cavo / Hollow output shaft

ECMM


ECMM
MOTORIDUTTORI C.C. COMBINATI
PERMANENT MAGNETS D.C. COMBINATION GEARMOTORS
Dimensioni
Dimensions

CMM..U - CMM..F - CMM..FB - CMM..FL																	
	A	C	D _{H8}	E	F	G	G1	H	H1	I	I1	K	L	M	N _{H8}	N1	N2
030/040	70	100	18	121.5	43	55	78	50	40	40	30	60	71	75	60	36.5	29
030/050	80	120	25	144	49	55	92	60	40	50	30	70	85	85	70	43.5	29
030/063	100	144	25	174	67	55	112	72	40	63	30	85	104	95	80	53	29
040/075	120	172	28	205	72	70	120	86	50	75	40	90	112	115	95	57	36.5
040/090	140	208	35	238	74	70	140	103	50	90	40	100	130	130	110	67	36.5
050/110	170	252.5	42	295	—	80	155	127.5	60	110	50	115	144	165	130	74	43.5
063/130	200	292.5	45	335	—	95	170	147.5	72	130	63	120	155	215	180	81	53

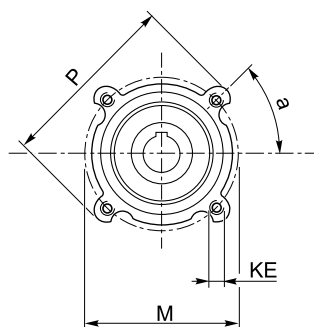
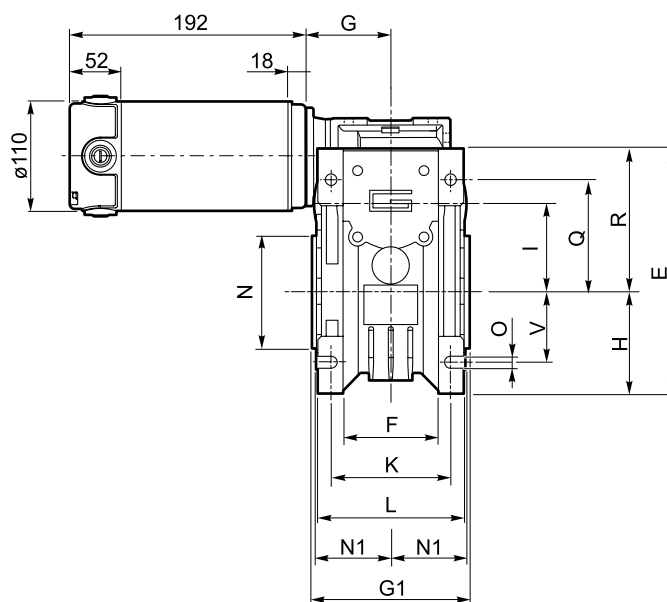
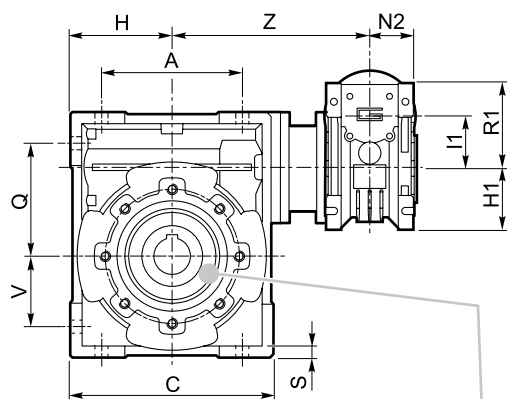
	CMM..U - CMM..F - CMM..FB - CMM..FL													
	O	P	Q	R	R1	S	T	V	Z	KE	a	b	t	Kg
030/040	6.5	87	55	71.5	57	6.5	26	35	122	M6x8(n.4)	45°	6	20.8	9.2
030/050	8.5	98	64	84	57	7	30	40	132	M8x10(n.4)	45°	8	28.3	10.3
030/063	8.5	110	80	102	57	8	36	50	145	M8x10(n.8)	45°	8	28.3	12.3
040/075	11	140	93	119	71.5	10	40	60	165	M8x14(n.8)	45°	8	31.3	17.3
040/090	13	160	102	135	71.5	11	45	70	182	M10x18(n.8)	45°	10	38.3	20.9
050/110	14	200	125	167.5	84	14	50	85	225	M10x18(n.8)	45°	12	45.3	35.5
063/130	16	250	140	187.5	102	15	60	100	245	M12x21(n.8)	45°	14	48.8	60.3



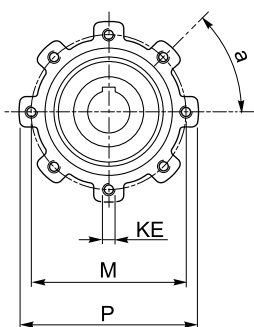
Dimensioni

Dimensions

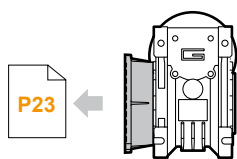
ECMM350/...U



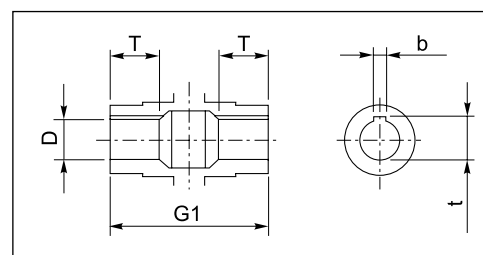
..030/040 ..030/050



**..030/063 ..040/075
 ..040/090 ..050/110
 ..063/130**

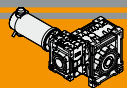


**ECMM350/... F
 ECMM350/... FL
 ECMM350/... FB**



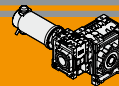
Albero lento cavo / Hollow output shaft

ECMM


ECMM
MOTORIDUTTORI C.C. COMBINATI
PERMANENT MAGNETS D.C. COMBINATION GEARMOTORS
Dimensioni
Dimensions

CMM..U - CMM..F - CMM..FB - CMM..FL																	
	A	C	D _{H8}	E	F	G	G1	H	H1	I	I1	K	L	M	N _{H8}	N1	N2
040/075	120	172	28	205	72	70	120	86	50	75	40	90	112	115	95	57	36.5
040/090	140	208	35	238	74	70	140	103	50	90	40	100	130	130	110	67	36.5
050/110	170	252.5	42	295	—	80	155	127.5	60	110	50	115	144	165	130	74	43.5
063/130	200	292.5	45	335	—	95	170	147.5	72	130	63	120	155	215	180	81	53

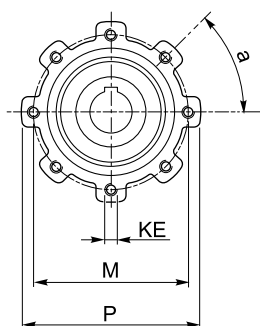
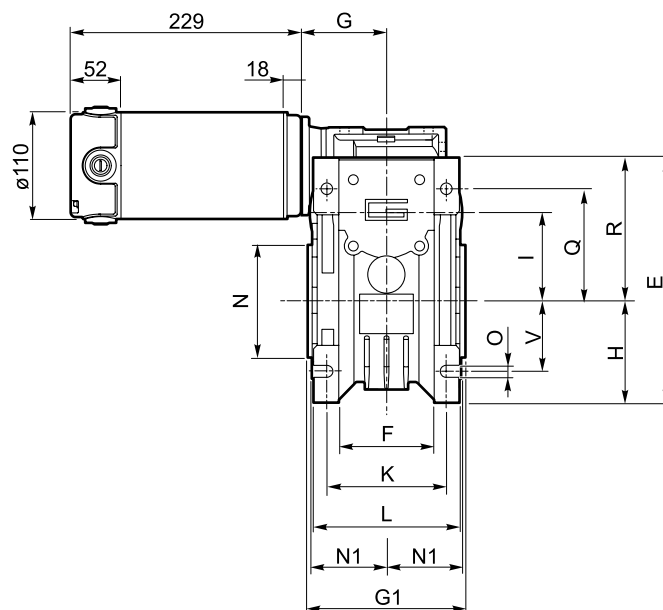
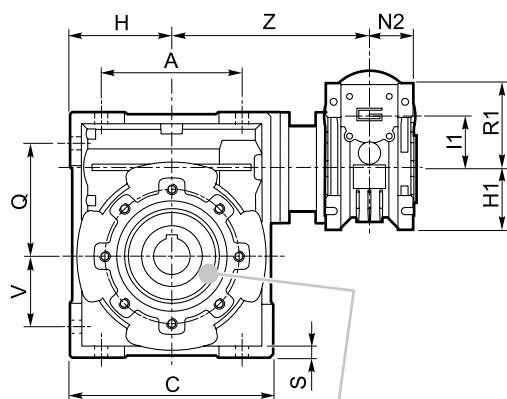
CMM..U - CMM..F - CMM..FB - CMM..FL														
	O	P	Q	R	R1	S	T	V	Z	KE	a	b	t	Kg
040/075	11	140	93	119	71.5	10	40	60	165	M8x14(n.8)	45°	8	31.3	19.1
040/090	13	160	102	135	71.5	11	45	70	182	M10x18(n.8)	45°	10	38.3	22.7
050/110	14	200	125	167.5	84	14	50	85	225	M10x18(n.8)	45°	12	45.3	37.3
063/130	16	250	140	187.5	102	15	60	100	245	M12x21(n.8)	45°	14	48.8	62.1



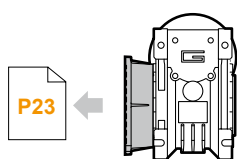
Dimensioni

Dimensions

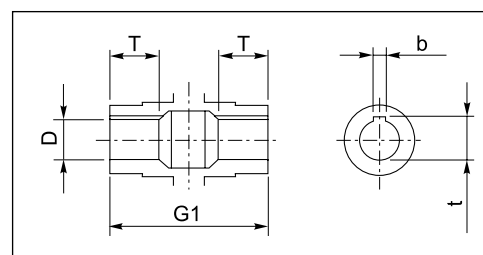
ECMM600/...U



..040/075 ..040/090
 ..050/110 ..063/130

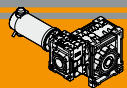
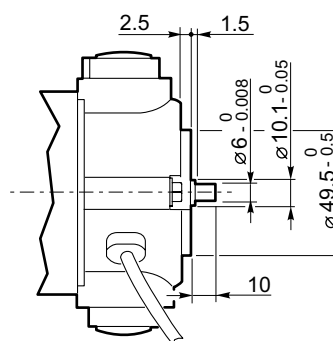
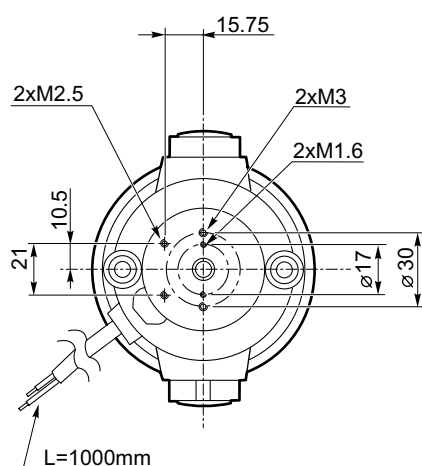


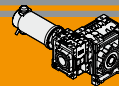
ECMM600/... F
ECMM600/... FL
ECMM600/... FB



Albero lento cavo / Hollow output shaft

ECMM

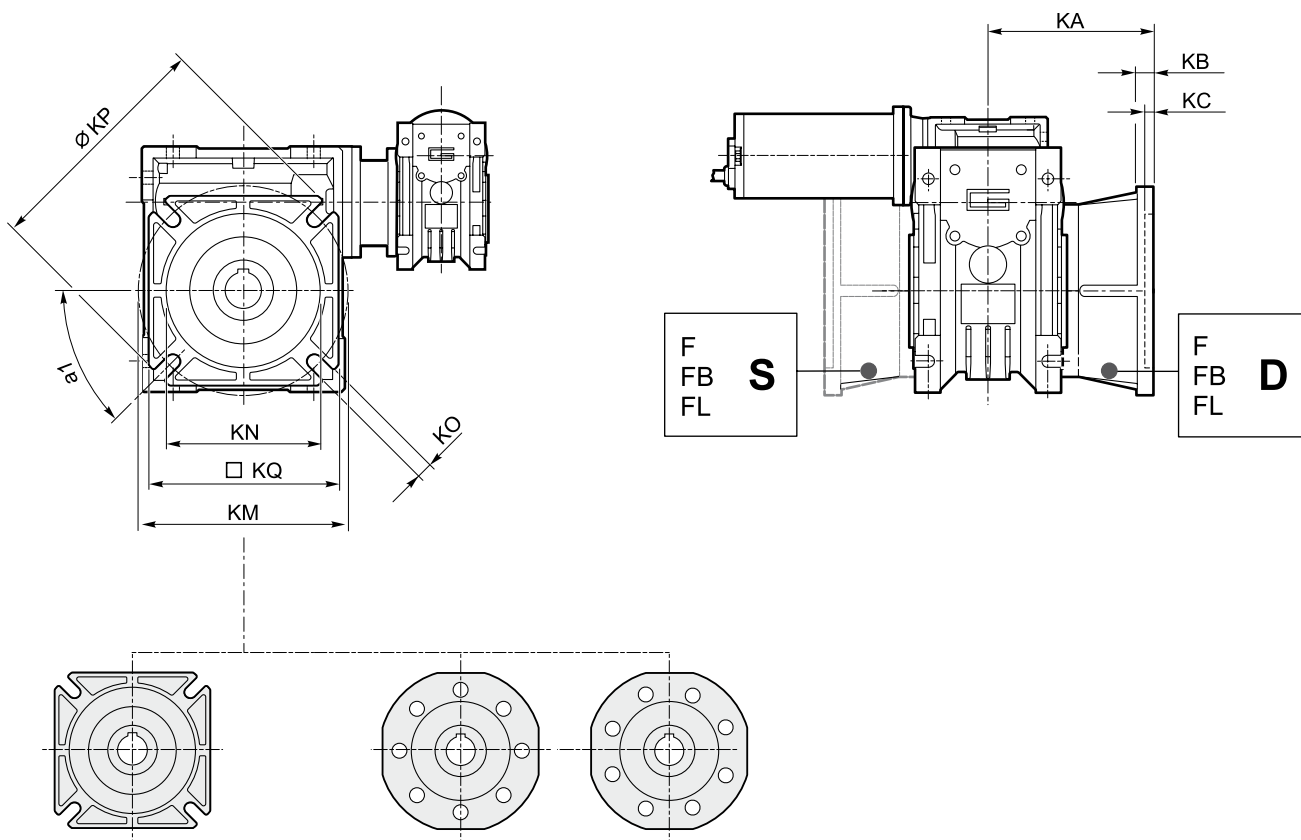
**ECMM****MOTORIDUTTORI C.C. COMBINATI**
PERMANENT MAGNETS D.C. COMBINATION GEARMOTORS**Dimensioni****Dimensions****EC100.24E****EC180.24E**



Dimensioni

Dimensions

ECMM.../... F... Flange uscita / Output flanges



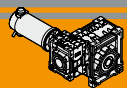
CMM..F
 (../26 - ../030 - ../075 - ../090)

CMM..FB
 (../040 - ../063)

CMM..FL
 (../040 - ../063)

CMM..F
 (../110) (../130)

	CMM..F									CMM..FB								CMM..FL							
	a1	KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC	KM	KN H8	KO	KP	KQ
026/026	45°	45	6	4.5	55-69	40	6.5(n.4)	75	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
026/030	45°	54.5	6	4	68	50	6.5(n.4)	80	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
026/040 030/040	45°	67	7.5	4.5	80-95	60	9(n.4)	110	95	80	8.5	5	115-125	95	9.5(n.4)	140	112	97	7.5	4.5	80-95	60	9(n.4)	110	95
026/050 030/050	45°	90	9	5	90-110	70	11(n.4)	125	110	89	9	5	130-145	110	9.5(n.4)	160	132	120	9	5	90-110	70	11(n.4)	125	110
030/063	45°	82	10	6	150-160	115	11(n.4)	180	142	98	10	5	165-180	130	11(n.4)	200	112	112	10	6	150-160	115	11(n.4)	180	142
040/075	45°	111	13	6	165-180	130	14(n.4)	200	170	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
040/090	45°	111	13	6	175-190	152	14(n.4)	210	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
050/110	45°	131	15	6	230	170	14(n.8)	280	260	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
063/130	22.5°	140	15	6	255	180	16(n.8)	320	290	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



ECMM

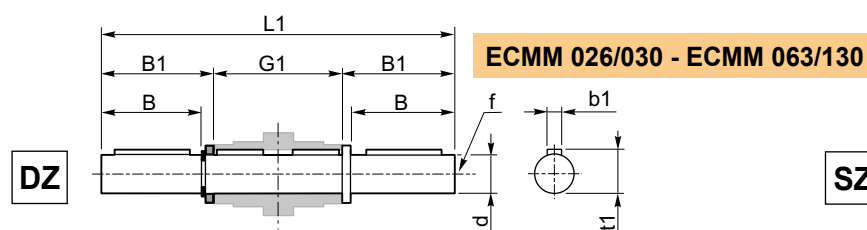
MOTORIDUTTORI C.C. COMBINATI

PERMANENT MAGNETS D.C. COMBINATION GEARMOTORS

Accessori

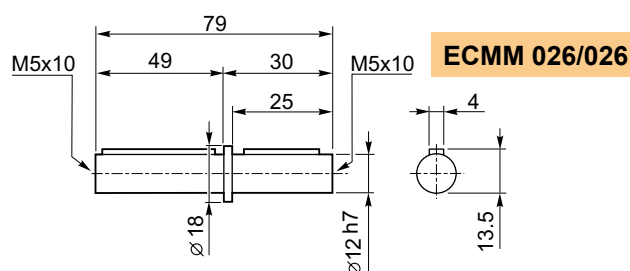
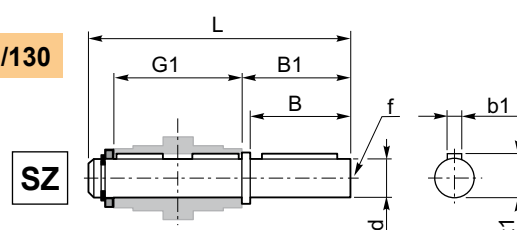
Accessories

Albero lento semplice e doppio



ECMM	d _{h7}	B	B1	G1	L	L1	f	b1	t1
026/030	14	30	32.5	63	102	128	M6	5	16
026/040	18	40	43	78	128	164	M6	6	20.5
030/040	25	50	53.5	92	153	199	M10	8	28
030/050	25	50	53.5	112	173	219	M10	8	28
040/075	28	60	63.5	120	192	247	M10	8	31
040/090	35	80	84.5	140	234	309	M12	10	38
050/110	42	80	84.5	155	249	324	M16	12	45
063/130	45	80	85	170	265	340	M16	14	48.5

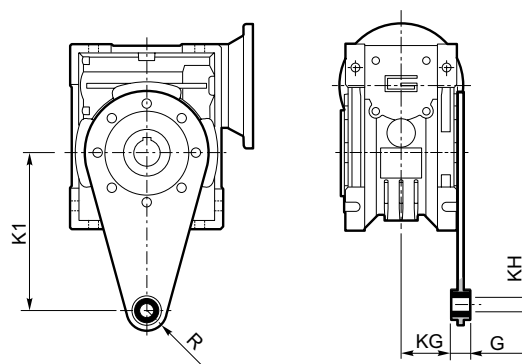
Single and double output shaft



Braccio di reazione

ECMM	K1	G	KG	KH	R
026/030	85	14	23	8	15
026/040	100	14	31	10	18
030/040	100	14	38	10	18
030/050	100	14	38	10	18
030/063	150	14	47.5	10	18
040/075	200	25	46.5	20	30
040/090	200	25	56.5	20	30
050/110	250	30	62	25	35
063/130	250	30	69	25	35

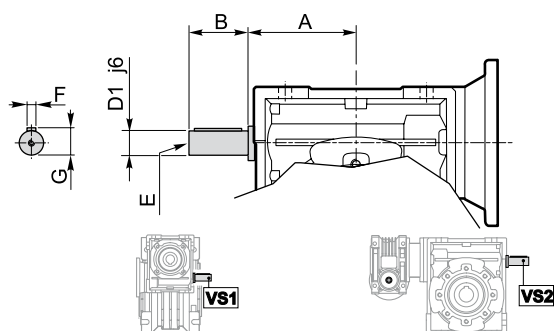
Torque arm



Opzioni

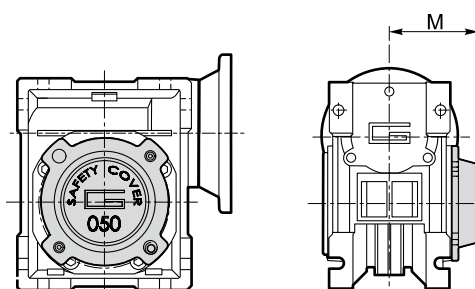
Options

VS1 - VS2 - Vite sporgente / Extended input shaft

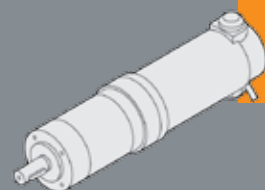


CMM	VS1						VS2					
	A	B	D ₁ j6	E	F	G	A	B	D ₁ j6	E	F	G
026/030	—	—	—	—	—	—	45	20	9	M4	3	10.2
026/040	—	—	—	—	—	—	53	23	11	M5	4	12.5
026/050	—	—	—	—	—	—	64	30	14	M6	5	16
030/040	45	20	9	M4	3	10.2	53	23	11	M5	4	12.5
030/050	45	20	9	M4	3	10.2	64	30	14	M6	5	16
030/063	45	20	9	M4	3	10.2	75	40	19	M6	6	21.5
040/075	53	23	11	M5	4	12.5	90	50	24	M8	8	27
040/090	53	23	11	M5	4	12.5	108	50	24	M8	8	27
050/110	64	30	14	M6	5	16	135	60	28	M10	8	31
063/130	75	40	19	M6	6	21.5	—	—	—	—	—	—

SC - Safety cover

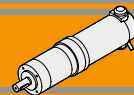


M	CM							
	30	40	50	63	75	90	110	130
M	47	54.5	62.5	73	79	94	102	117



MOTORIDUTTORI C.C. EPICICLOIDALI
PERMANENT MAGNETS D.C. PLANETARY GEARMOTORS

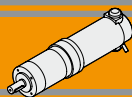




Indice	Index	Pag. Page
Caratteristiche tecniche	<i>Technical features</i>	Q2
Designazione	<i>Classification</i>	Q2
Versioni	<i>Versions</i>	Q2
Simbologia	<i>Symbols</i>	Q2
Lubrificazione	<i>Lubrication</i>	Q2
Carichi radiali	<i>Radial loads</i>	Q3
Rapporti	<i>Ratios</i>	Q3
Rendimento	<i>Efficiency</i>	Q3
Dati tecnici	<i>Technical data</i>	Q4
Motori applicabili	<i>IEC Motor adapters</i>	Q11
Dimensioni	<i>Dimensions</i>	Q12

Questa sezione annulla e sostituisce ogni precedente edizione o revisione. Qualora questa sezione non Vi sia giunta in distribuzione controllata, l'aggiornamento dei dati ivi contenuto non è assicurato. **In tal caso la versione più aggiornata è disponibile sul nostro sito internet www.transtecno.com**

*This section replaces any previous edition and revision. If you obtained this catalogue other than through controlled distribution channels, the most up to date content is not guaranteed. **In this case the latest version is available on our web site www.transtecno.com***



Caratteristiche tecniche

Technical features

Le caratteristiche principali dei motoriduttori a corrente continua della serie ECP sono:

The main features of ECP D.C. gearmotor range are:

- Alimentazione in bassa tensione 12/24 Vcc
- Possibilità di montaggio encoder
- Potenze motore disponibili da 30 a 800W S2
- Magneti in ferrite
- Entrata ed uscita coassiali
- Design compatto
- Lubrificazione permanente a grasso
- Possono essere installati in qualunque posizione di montaggio.

- Low voltage power supply 12/24 Vdc
- Suitable for encoder assembly
- Motor power ratings available from 30 up to 800W S2
- Ferrite magnets
- Coaxial arrangement of the input and output
- Compact design
- Permanent grease oil long-life lubrication
- Can be intalled in all mounting position.

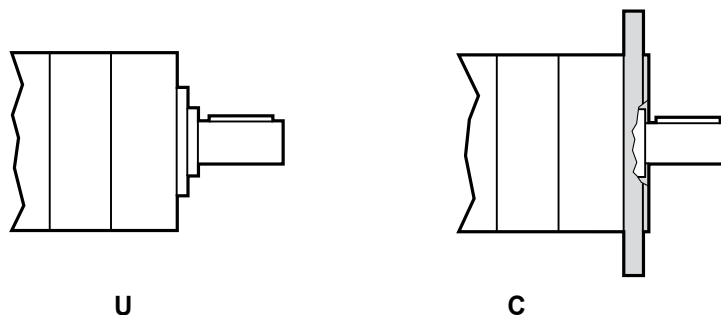
Designazione

Classification

MOTORIDUTTORE / GEARMOTOR															
ECP	070/62									2	C	90	34.97	120	
Tipo Type	Grandezza Size									Stadi riduttore Gearbox stages	Versione riduttore Gearbox Version	Flangia Uscita Output flange	Rapporto Ratio	Versione Motore Motor Version	
	ECP	020/42	035/42	050/42	070/52	100/52	180/52	250/62	350/62	600/72	1	U	80	Vedere tabella See tables	120
			035/52	050/52	070/62	100/62	180/62	250/72	350/72	600/81			90		
					070/72	100/72	180/72	250/81	350/81	600/105	2	C	105		240
					070/81	100/81	180/81	250/105	350/105	600/120	3		120		
							180/105	250/120	350/120						24E
						180/120									

Versioni

Versions



Simbologia

Symbols

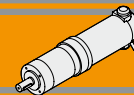
n_1	[min ⁻¹]	Velocità in ingresso / Input speed	sf		Fattore di servizio / Service factor
n_2	[min ⁻¹]	Velocità in uscita / Output speed	Rd	%	Rendimento dinamico / Dynamic efficiency
i		Rapporto di riduzione / Ratio	A ₂	[N]	Carico assiale ammissibile in uscita / Permitted output axial load
P ₁	[kW]	Potenza in entrata / Input power	R ₂	[N]	Carico radiale ammissibile in uscita / Permitted output radial load
M ₂	[Nm]	Coppia in uscita in funzione di P ₁ / Output torque referred to P ₁			

Lubrificazione

Lubrication

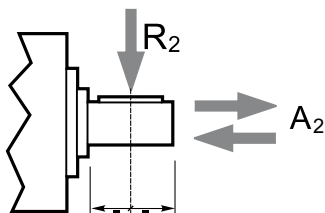
I riduttori epicicloidali sono lubrificati in modo permanente, non richiedono quindi ulteriore manutenzione. Questo gli consente di essere installati praticamente ovunque. La temperatura di funzionamento consentita va da -30 °C a + 140 °C; per applicazioni particolari, possono essere adottate misure per raggiungere livelli di temperatura maggiori.

Planetary gearboxes are life-time lubricated with grease, therefore they are maintenance free. They can be installed in any location. The temperature range is from -30 °C up to + 140 °C; for special applications, measures can be taken for higher temperature range.



Carichi radiali

Radial loads



Numero di stadi Stages number	Carichi Radiali R_2 [N] / Radial Load R_2 [N]						
	P42	P52	P62	P72	P81	P105	P120
1	160	200	240	320	400	600	600
2	230	320	360	480	600	900	900
3	300	450	520	760	1000	1500	1500

Numero di stadi Stages number	Carichi Assiali A_2 [N] / Axial Load A_2 [N]						
	P42	P52	P62	P72	P81	P105	P120
1	50	60	70	70	80	120	120
2	80	100	100	100	120	180	180
3	110	150	150	160	200	300	300

Rapporti

Ratios

Numero di stadi Stages number	Per tutte le grandezze di riduttori della serie P For all gearbox sizes of P range	
	Rapporti / Ratios	
1	3.70	
	4.28*	
	5.18*	
	6.75	
2	13.73	
	15.88*	
	18.36*	
	19.20*	
	22.20*	
	25.01	
	26.85*	
	28.93*	
	34.97*	
3	45.56	
	50.89	
	58.85*	
	68.06*	
	71.16*	
	78.71*	
	92.70	
	95.17*	
	99.50*	
	107.20*	
	115.07*	
	123.97*	
	129.62*	
	139.13*	
	149.90*	
	168.84	
	181.24*	
	195.26*	
	236.09*	
	307.54	

Rapporti preferenziali Preferred ratios

* Rapporto non disponibile su grandezza P120
 Ratio not available on size P120

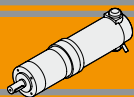
Disponibile a 4 stadi con rapporti fino a 2076
 Available 4 stages with ratio up to 2076

Rendimento

Efficiency

Rendimento Efficiency	Per tutte le grandezze di riduttori della serie P For all gearbox sizes of P range		
	Numero di stadi / Stages number		
	1	2	3
Rd %	80	75	70

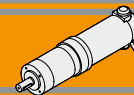
Rendimento medio per velocità nominale in ingresso 3000 rpm
 Average efficiency with input rated speed 3000 rpm



Dati tecnici per servizio S2

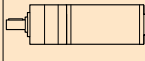
Technical data for S2 duty

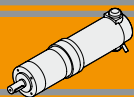
P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version	P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version
30							55						
(2850 min ⁻¹)	770	0.24	12.7	3.70	ECP020/421	120/24E	(2850 min ⁻¹)	31	12	1.3	95.17	ECP035/423	120/240
	666	0.27	11.0	4.28				30	13	1.2	99.50		
	550	0.33	9.0	5.18				28	14	1.1	107.20		
	422	0.43	6.9	6.75				26	14	1.0	115.07		
								24	16	1.0	123.97		
	208	0.82	9.1	13.73	ECP020/422	120/24E		23	16	0.9	129.62		
	179	0.95	7.9	15.88				22	18	0.9	139.13		
	155	1.1	6.8	18.36				20	19	0.8	149.90		
	148	1.2	6.5	19.20				18	21	0.7	168.84		
	128	1.3	5.6	22.20				17	21	0.7	181.24		
	114	1.5	5.0	25.01				15	21	0.7	195.26		
	106	1.6	4.7	26.85				13	21	0.7	236.09		
	99	1.7	4.3	28.93				10	21	0.7	307.54		
	81	2.1	3.6	34.97									
	63	2.7	2.7	45.56									
	56	2.8	5.3	50.89	ECP020/423	120/24E		811	0.53	7.5	3.70	ECP035/521	120/240
	48	3.3	4.6	58.85				701	0.62	6.5	4.28		
	42	3.8	3.9	68.06				579	0.75	5.4	5.18		
	40	4.0	3.8	71.16				444	0.97	4.1	6.75		
	36	4.4	3.4	78.71									
	31	5.2	2.9	92.70				218	1.9	6.5	13.73	ECP035/522	120/240
	30	5.3	2.8	95.17				189	2.1	5.6	15.88		
	29	5.6	2.7	99.50				163	2.5	4.8	18.36		
	27	6.0	2.5	107.20				156	2.6	4.6	19.20		
	25	6.4	2.3	115.07				135	3.0	4.0	22.20		
	23	6.9	2.2	123.97				120	3.4	3.6	25.01		
	22	7.3	2.1	129.62				112	3.6	3.3	26.85		
	20	7.8	1.9	139.13				104	3.9	3.1	28.93		
	19	8.4	1.8	149.90				86	4.7	2.5	34.97		
	17	9.5	1.6	168.84				66	6.2	2.0	45.56		
	16	10	1.5	181.24				59	6.4	3.9	50.89	ECP035/523	120/240
	15	11	1.4	195.26				51	7.4	3.4	58.85		
	12	13	1.1	236.09				44	8.6	2.9	68.06		
	9.3	17	0.9	307.54				42	9.0	2.8	71.16		
								38	9.9	2.5	78.71		
								32	11.7	2.1	92.70		
								31	12.0	2.1	95.17		
								30	12.5	2.0	99.50		
								28	13.5	1.9	107.20		
								26	14.5	1.7	115.07		
								24	15.6	1.6	123.97		
								23	16.3	1.5	129.62		
								22	17.5	1.4	139.13		
								20	18.9	1.3	149.90		
								18	21.3	1.2	168.84		
								17	22.8	1.1	181.24		
								15	24.6	1.0	195.26		
								13	29.7	0.8	236.09		
								10	35.7	0.7	307.54		
								</					



Dati tecnici per servizio S2

Technical data for S2 duty

P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version	P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version	
70							100							
(2850 min ⁻¹)	59	7.8	1.9	50.89	ECP050/423	12E/24E	(3000 min ⁻¹)	59	11	2.3	50.89	ECP070/523	120/240	
	51	9.1	1.7	58.85				51	13	2.0	58.85			
	44	10	1.4	68.06				44	15	1.7	68.06			
	42	11	1.4	71.16				42	15	1.6	71.16			
	38	12	1.2	78.71				38	17	1.5	78.71			
	32	14	1.1	92.70				32	20	1.2	92.70			
	31	15	1.0	95.17				31	21	1.2	95.17			
	30	15	1.0	99.50				30	22	1.2	99.50			
	28	17	0.9	107.20				28	23	1.1	107.20			
	26	18	0.8	115.07				26	25	1.0	115.07			
	24	19	0.8	123.97				24	27	0.9	123.97			
	23	20	0.8	129.62				23	28	0.9	129.62			
	22	21	0.7	139.13				22	30	0.8	139.13			
	20	21	0.7	149.90				20	33	0.8	149.90			
	18	21	0.7	168.84				18	36	0.7	168.84			
	17	21	0.7	181.24				17	36	0.7	181.24			
	15	21	0.7	195.26				15	36	0.7	195.26			
	13	21	0.7	236.09				13	36	0.7	236.09			
	9.8	21	0.7	307.54				9.8	36	0.7	307.54			
	163	3.0	4.0	18.36	ECP050/522	12E/24E		120.0	5.8	4.3	25.01	ECP070/622	120/240	
	156	3.2	3.8	19.20				112	6.2	4.0	26.85			
	135	3.7	3.3	22.20				104	6.7	3.7	28.93			
	120	4.1	2.9	25.01				86	8.1	3.1	34.97			
	112	4.4	2.7	26.85				66	11	2.4	45.56			
	104	4.8	2.5	28.93										
	86	5.8	2.1	34.97	ECP050/523	12E/24E		59	11	4.5	50.89	ECP070/623	120/240	
	66	7.5	1.6	45.56				51	13	3.9	58.85			
								44	15	3.4	68.06			
	59	7.8	3.2	50.89				42	15	3.2	71.16			
	51	9.1	2.8	58.85				38	17	2.9	78.71			
	44	10	2.4	68.06				32	20	2.5	92.70			
	42	11	2.3	71.16				31	21	2.4	95.17			
	38	12	2.1	78.71				30	22	2.3	99.50			
	32	14	1.8	92.70				28	23	2.1	107.20			
	31	15	1.7	95.17				26	25	2.0	115.07			
	30	15	1.6	99.50				24	27	1.9	123.97			
	28	17	1.5	107.20				23	28	1.8	129.62			
	26	18	1.4	115.07				22	30	1.7	139.13			
	24	19	1.3	123.97				20	33	1.5	149.90			
	23	20	1.3	129.62				18	37	1.4	168.84			
	22	21	1.2	139.13				17	39	1.3	181.24			
	20	23	1.1	149.90				15	42	1.2	195.26			
	18	26	1.0	168.84				13	51	1.0	236.09			
	17	28	0.9	181.24				9.8	67	0.7	307.54			
	15	30	0.8	195.26										
	13	36	0.7	236.09										
	9.8	36	0.7	307.54										
100														
(3000 min ⁻¹)	811	0.92	4.4	3.70	ECP070/521	120/240								
	701	1.1	3.8	4.28										
	579	1.3	3.1	5.18										
	444	1.7	2.4	6.75										
	218	3.2	3.8	13.73	ECP070/522	120/240								
	189	3.7	3.3	15.88										
	163	4.3	2.8	18.36										
	156	4.5	2.7	19.20										
	135	5.2	2.3	22.20										
	120	5.8	2.1	25.01										
	112	6.2	1.9	26.85										
	104	6.7	1.8	28.93										
	86	8.1	1.5	34.97										
	66	11	1.1	45.56										



Dati tecnici per servizio S2

Technical data for S2 duty

P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version
-----------------------	--	------------------------	----	---	---	----------------------------------

100

(3000 min ⁻¹)	20	33	3.7	149.90	ECP070/813	120/240
	18	37	3.3	168.84		
	17	39	3.1	181.24		
	15	42	2.8	195.26		
	13	51	2.3	236.09		
	9.8	67	1.8	307.54		

140

(3000 min ⁻¹)	811	1.3	3.1	3.70	ECP100/521	120/240/24E
	701	1.5	2.7	4.28		
	579	1.8	2.2	5.18		
	444	2.3	1.7	6.75		
	218	4.4	2.7	13.73	ECP100/522	120/240/24E
	189	5.1	2.3	15.88		
	163	5.9	2.0	18.36		
	156	6.2	1.9	19.20		
	135	7.2	1.7	22.20		
	120	8.1	1.5	25.01		
	112	8.7	1.4	26.85		
	104	9.3	1.3	28.93		
	86	11	1.1	34.97		
	66	15	0.8	45.56		
	59	15	1.6	50.89	ECP100/523	120/240/24E
	51	18	1.4	58.85		
	44	20	1.2	68.06		
	42	21	1.2	71.16		
	38	24	1.1	78.71		
	32	28	0.9	92.70		
	31	29	0.9	95.17		
	30	30	0.8	99.50		
	28	32	0.8	107.20		
	26	35	0.7	115.07		
	24	36	0.7	123.97	ECP100/524	120/240/24E
	23	36	0.7	129.62		
	22	36	0.7	139.13		
	20	36	0.7	149.90		
	18	36	0.7	168.84		
	17	36	0.7	181.24		
	15	36	0.7	195.26		
	13	36	0.7	236.09		
	9.8	36	0.7	307.54		
	444	2.3	3.4	6.75	ECP100/621	120/240/24E
	156	6.2	4.0	19.20	ECP100/622	120/240/24E
	135	7.2	3.5	22.20		
	120	8.1	3.1	25.01		
	112	8.7	2.9	26.85		
	104	9.3	2.7	28.93		
	86	11	2.2	34.97		
	66	15	1.7	45.56		

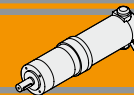
P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version
-----------------------	--	------------------------	----	---	---	----------------------------------

140

(3000 min ⁻¹)	59	15	3.3	50.89	ECP100/623	120/240/24E
	51	18	2.8	58.85		
	44	20	2.4	68.06		
	42	21	2.3	71.16		
	38	24	2.1	78.71		
	32	28	1.8	92.70		
	31	29	1.7	95.17		
	30	30	1.7	99.50		
	28	32	1.5	107.20		
	26	35	1.4	115.07		
	24	37	1.3	123.97	ECP100/722	120/240/24E
	23	39	1.3	129.62		
	22	42	1.2	139.13		
	20	45	1.1	149.90		
	18	51	1.0	168.84		
	17	55	0.9	181.24		
	15	59	0.9	195.26		
	13	71	0.7	236.09		
	9.8	71	0.7	307.54		
	86	11	3.7	34.97	ECP100/723	120/240/24E
	66	15	2.9	45.56		
	44	20	4.1	68.06	ECP100/724	120/240/24E
	42	21	3.9	71.16		
	38	24	3.5	78.71		
	32	28	3.0	92.70		
	31	29	2.9	95.17		
	30	30	2.8	99.50		
	28	32	2.6	107.20		
	26	35	2.4	115.07		
	24	37	2.3	123.97		
	23	39	2.2	129.62		
	22	42	2.0	139.13	ECP100/813	120/240/24E
	20	45	1.9	149.90		
	18	51	1.7	168.84		
	17	55	1.5	181.24		
	15	59	1.4	195.26		
	13	71	1.2	236.09		
	9.8	93	0.9	307.54		
	32	28	4.3	92.70		
	31	29	4.2	95.17		
	30	30	4.0	99.50		
	28	32	3.7	107.20	ECP100/814	120/240/24E
	26	35	3.5	115.07		
	24	37	3.2	123.97		
	23	39	3.1	129.62		
	22	42	2.9	139.13		
	20	45	2.7	149.90		
	18	51	2.4	168.84		
	17	55	2.2	181.24		
	15	59	2.0	195.26		
	13	71	1.7	236.09		
	9.8	93	1.3	307.54		

250

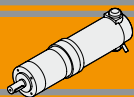
(3000 min ⁻¹)	811	2.4	1.7	3.70	ECP180/521	120/240
	701	2.7	1.5	4.28		
	579	3.3	1.2	5.18		
	444	4.3	0.9	6.75		



Dati tecnici per servizio S2

Technical data for S2 duty

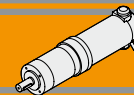
P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version	P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version
250							250						
(3000 min ⁻¹)	218	8.2	1.5	13.73	ECP180/522	120/240	(3000 min ⁻¹)	163	11	3.8	18.36	ECP180/722	120/240/24E
	189	9.5	1.3	15.88				156	12	3.6	19.20		
	163	11	1.1	18.36				135	13	3.2	22.20		
	156	12	1.0	19.20				120	15	2.8	25.01		
	135	13	0.9	22.20				112	16	2.6	26.85		
	120	15	0.8	25.01				104	17	2.4	28.93		
	112	16	0.7	26.85				86	21	2.0	34.97		
	104	17	0.7	28.93				66	27	1.5	45.56		
	86	17	0.7	34.97									
	66	17	0.7	45.56				59	28	2.9	50.89	ECP180/723	120/240/24E
	59	28	0.9	50.89				51	33	2.5	58.85		
	51	33	0.8	58.85				44	38	2.2	68.06		
	44	36	0.7	68.06				42	40	2.1	71.16		
	42	36	0.7	71.16				38	44	1.9	78.71		
	38	36	0.7	78.71				32	52	1.6	92.70		
	32	36	0.7	92.70				31	53	1.6	95.17		
	31	36	0.7	95.17				30	56	1.5	99.50		
	30	36	0.7	99.50				28	60	1.4	107.20		
	28	36	0.7	107.20				26	64	1.3	115.07		
	26	36	0.7	115.07	ECP180/523	120/240		24	69	1.2	123.97		
	24	36	0.7	123.97				23	73	1.2	129.62		
	23	36	0.7	129.62				22	78	1.1	139.13		
	22	36	0.7	139.13				20	84	1.0	149.90		
	20	36	0.7	149.90				18	95	0.9	168.84		
	18	36	0.7	168.84				17	101	0.8	181.24		
	17	36	0.7	181.24				15	109	0.8	195.26		
	15	36	0.7	195.26				13	120	0.7	236.09		
	13	36	0.7	236.09				9.8	120	0.7	307.54		
	9.8	36	0.7	307.54				120	15	4.0	25.01	ECP180/812	120/240/24E
	811	2.4	3.4	3.70	ECP180/621	120/240/24E		112	16	3.7	26.85		
	701	2.7	2.9	4.28				104	17	3.5	28.93		
	579	3.3	2.4	5.18				86	21	2.9	34.97		
	444	4.3	1.9	6.75				66	27	2.2	45.56		
	218	8.2	3.0	13.73	ECP180/622	120/240/24E		51	33	3.6	58.85	ECP180/813	120/240/24E
	189	9.5	2.6	15.88				44	38	3.1	68.06		
	163	11	2.3	18.36				42	40	3.0	71.16		
	156	12	2.2	19.20				38	44	2.7	78.71		
	135	13	1.9	22.20				32	52	2.3	92.70		
	120	15	1.7	25.01				31	53	2.3	95.17		
	112	16	1.6	26.85				30	56	2.2	99.50		
	104	17	1.4	28.93				28	60	2.0	107.20		
	86	21	1.2	34.97				26	64	1.9	115.07		
	66	27	0.9	45.56				24	69	1.7	123.97		
	59	28	1.8	50.89	ECP180/623	120/240/24E		23	73	1.7	129.62		
	51	33	1.5	58.85				22	78	1.5	139.13		
	44	38	1.3	68.06				20	84	1.4	149.90		
	42	40	1.3	71.16				18	95	1.3	168.84		
	38	44	1.1	78.71				17	101	1.2	181.24		
	32	52	1.0	92.70				15	109	1.1	195.26		
	31	53	0.9	95.17				13	132	0.9	236.09		
	30	56	0.9	99.50				9.8	172	0.7	307.54		
	28	60	0.8	107.20									
	26	64	0.8	115.07									
	24	69	0.7	123.97									
	23	71	0.7	129.62									
	22	71	0.7	139.13									
	20	71	0.7	149.90									
	18	71	0.7	168.84									
	17	71	0.7	181.24									
	15	71	0.7	195.26									
	13	71	0.7	236.09									
	9.8	71	0.7	307.54									



Dati tecnici per servizio S2

Technical data for S2 duty

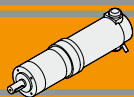
P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version	P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version		
250							350								
(3000 min ⁻¹)	32	52	3.8	92.70	ECP180/1053	120/240/24E	(3000 min ⁻¹)	218	11.5	3.6	13.73	ECP250/722	120/240		
	31	53	3.7	95.17				189	13.3	3.1	15.88				
	30	56	3.5	99.50				163	15.4	2.7	18.36				
	28	60	3.2	107.20				156	16.1	2.6	19.20				
	26	64	3.0	115.07				135	18.6	2.3	22.20				
	24	69	2.8	123.97				120	21.0	2.0	25.01				
	23	73	2.7	129.62				112	22.6	1.9	26.85				
	22	78	2.5	139.13				104	24.3	1.7	28.93				
	20	84	2.3	149.90				86	29.4	1.4	34.97				
	18	95	2.1	168.84				66	38.3	1.1	45.56				
	17	101	1.9	181.24											
	15	109	1.8	195.26				59	39.9	2.1	50.89			ECP250/723	120/240
	13	132	1.5	236.09				51	46.1	1.8	58.85				
	9.8	172	1.1	307.54				44	53.4	1.6	68.06				
						42	55.8	1.5	71.16						
	18	95	3.2	168.84	ECP180/1203	120/240/24E		38	61.7	1.4	78.71				
	9.8	172	1.7	307.54				32	72.7	1.2	92.70				
350								32	74.6	1.1	95.17				
(3000 min ⁻¹)	811	3.3	2.4	3.70	ECP250/621	120/240		30	78.0	1.1	99.50				
	701	3.8	2.1	4.28				28	84.0	1.0	107.20				
	579	4.6	1.7	5.18				26	90.2	0.9	115.07				
	444	6.0	1.3	6.75				24	97.2	0.9	123.97				
	218	11.5	2.2	13.73	ECP250/622	120/240		23	101.6	0.8	129.62				
	189	13.3	1.9	15.88				22	109.1	0.8	139.13				
	163	15.4	1.6	18.36				20	117.5	0.7	149.90				
	156	16.1	1.6	19.20				18	120.0	0.7	168.84				
	135	18.6	1.3	22.20				17	120.0	0.7	181.24				
	120	21.0	1.2	25.01				15	120.0	0.7	195.26				
	112	22.6	1.1	26.85				13	120.0	0.7	236.09				
	104	24.3	1.0	28.93				9.8	120.0	0.7	307.54				
	86	29.4	0.9	34.97											
	66	38.3	0.7	45.56											
	59	39.9	1.3	50.89	ECP250/623	120/240		701	3.8	5.2	4.28	ECP250/811	120/240		
	51	46.1	1.1	58.85				579	4.6	4.3	5.18				
	44	53.4	0.9	68.06				444	6.0	3.3	6.75				
	42	55.8	0.9	71.16				218	11.5	5.2	13.73	ECP250/812	120/240		
	38	61.7	0.8	78.71				189	13.3	4.5	15.88				
	32	72.7	0.7	92.70				163	15.4	3.9	18.36				
	32	74.6	0.7	95.17				156	16.1	3.7	19.20				
	30	71.0	0.7	99.50				135	18.6	3.2	22.20				
	28	71.0	0.7	107.20				120	21.0	2.9	25.01				
	26	71.0	0.7	115.07				112	22.6	2.7	26.85				
	24	71.0	0.7	123.97				104	24.3	2.5	28.93				
	23	71.0	0.7	129.62				86	29.4	2.0	34.97				
	22	71.0	0.7	139.13				66	38.3	1.6	45.56				
	20	71.0	0.7	149.90											
	18	71.0	0.7	168.84				59	39.9	3.0	50.89	ECP250/813	120/240		
	17	71.0	0.7	181.24				51	46.1	2.6	58.85				
	15	71.0	0.7	195.26				44	53.4	2.2	68.06				
	13	71.0	0.7	236.09				42	55.8	2.2	71.16				
	9.8	71.0	0.7	307.54				38	61.7	1.9	78.71				
						32	72.7	1.7	92.70						
						32	74.6	1.6	95.17						
						30	78.0	1.5	99.50						
						28	84.0	1.4	107.20						
						26	90.2	1.3	115.07						
	811	3.3	4.2	3.70	ECP250/721			24	97.2	1.2	123.97				
	701	3.8	3.7	4.28				23	101.6	1.2	129.62				
	579	4.6	3.0	5.18				22	109.1	1.1	139.13				
	444	6.0	2.3	6.75				20	117.5	1.0	149.90				
							18	132.4	0.9	168.84					
							17	142.1	0.8	181.24					
							15	153.1	0.8	195.26					
							13	171.0	0.7	236.09					
							9.8	171.0	0.7	307.54					



Dati tecnici per servizio S2

Technical data for S2 duty

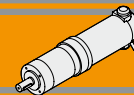
P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version	P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version
500							500						
(3000 min ⁻¹)	120	21.0	5.0	25.01	ECP250/1052	120/240	(3000 min ⁻¹)	17	71	0.7	181.24	ECP350/623	120/240
	112	22.6	4.7	26.85				15	71	0.7	195.26		
	104	24.3	4.3	28.93				13	71	0.7	236.09		
	86	29.4	3.6	34.97				9.8	71	0.7	307.54		
	66	38.3	2.7	45.56									
	59	39.9	4.9	50.89	ECP250/1053	120/240		811	4.6	3.0	3.70	ECP350/721	120/240
	51	46.1	4.2	58.85				701	5.4	2.6	4.28		
	44	53.4	3.7	68.06				579	6.5	2.2	5.18		
	42	55.8	3.5	71.16				444	8.5	1.7	6.75		
	38	61.7	3.2	78.71									
	32	72.7	2.7	92.70				218	16	2.6	13.73	ECP350/722	120/240
	32	74.6	2.6	95.17				189	19	2.2	15.88		
	30	78.0	2.5	99.50				163	22	1.9	18.36		
	28	84.0	2.3	107.20				156	23	1.9	19.20		
	26	90.2	2.2	115.07				135	26	1.6	22.20		
	24	97.2	2.0	123.97				120	29	1.4	25.01	ECP350/723	120/240
	23	101.6	1.9	129.62				112	32	1.3	26.85		
	22	109.1	1.8	139.13				104	34	1.2	28.93		
	20	117.5	1.7	149.90				86	41	1.0	34.97		
	18	132.4	1.5	168.84				66	54	0.8	45.56		
	17	142.1	1.4	181.24									
	15	153.1	1.3	195.26				59	56	1.5	50.89		
	13	185.1	1.1	236.09				51	65	1.3	58.85		
	9.8	241.1	0.8	307.54				44	75	1.1	68.06		
								42	78	1.1	71.16		
	66	38.3	3.9	45.56	ECP250/1202	120/240		38	87	1.0	78.71		
	32	72.7	4.1	92.70	ECP250/1203	120/240		32	102	0.8	92.70		
	18	132.4	2.3	168.84				31	105	0.8	95.17		
	9.8	241.1	1.2	307.54				30	109	0.8	99.50		
								28	118	0.7	107.20		
								26	120	0.7	115.07		
								24	120	0.7	123.97		
								23	120	0.7	129.62		
								22	120	0.7	139.13		
								20	120	0.7	149.90		
								18	120	0.7	168.84		
								17	120	0.7	181.24		
								15	120	0.7	195.26		
								13	120	0.7	236.09		
								9.8	120	0.7	307.54		
								701	5.4	3.7	4.28	ECP350/811	120/240
								579	6.5	3.1	5.18		
								444	8.5	2.4	6.75		
												ECP350/812	120/240
	218	16	1.5	13.73	ECP350/622	120/240		218	16	3.7	13.73		
	189	19	1.3	15.88				189	19	3.2	15.88		
	163	22	1.2	18.36				163	22	2.8	18.36		
	156	23	1.1	19.20				156	23	2.7	19.20		
	135	26	1.0	22.20				135	26	2.3	22.20		
	120	29	0.8	25.01				120	29	2.0	25.01		
	112	32	0.8	26.85				112	32	1.9	26.85		
	104	34	0.7	28.93				104	34	1.8	28.93		
	86	36	0.7	34.97				86	41	1.5	34.97		
	66	36	0.7	45.56				66	54	1.1	45.56		
	59	56	0.9	50.89	ECP350/623	120/240		59	56	2.1	50.89	ECP350/813	120/240
	51	65	0.8	58.85				51	65	1.9	58.85		
	44	71	0.7	68.06				44	75	1.6	68.06		
	42	71	0.7	71.16				42	78	1.5	71.16		
	38	71	0.7	78.71				38	87	1.4	78.71		
	32	71	0.7	92.70				32	102	1.2	92.70		
	31	71	0.7	95.17				31	105	1.1	95.17		
	30	71	0.7	99.50				30	109	1.1	99.50		
	28	71	0.7	107.20				28	118	1.0	107.20		
	26	71	0.7	115.07									
	24	71	0.7	123.97									
	23	71	0.7	129.62									
	22	71	0.7	139.13									
	20	71	0.7	149.90									
	18	71	0.7	168.84									



Dati tecnici per servizio S2

Technical data for S2 duty

P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version	P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version
500							800						
(3000 min ⁻¹)	26	126	0.9	115.07	ECP350/813	120/240	(3000 min ⁻¹)	59	90	0.9	50.89	ECP600/723	120/240
	24	136	0.9	123.97				51	105	0.8	58.85		
	23	142	0.8	129.62				44	120	0.7	68.06		
	22	153	0.8	139.13				42	120	0.7	71.16		
	20	165	0.7	149.90				38	120	0.7	78.71		
	18	171	0.7	168.84				32	120	0.7	92.70		
	17	171	0.7	181.24				31	120	0.7	95.17		
	15	171	0.7	195.26				30	120	0.7	99.50		
	13	171	0.7	236.09				28	120	0.7	107.20		
	9.8	171	0.7	307.54				26	120	0.7	115.07		
	120	29	3.6	25.01	ECP350/1052	120/240		24	120	0.7	123.97	ECP600/811	120/240
	112	32	3.3	26.85				23	120	0.7	129.62		
	104	34	3.1	28.93				22	120	0.7	139.13		
	86	41	2.5	34.97				20	120	0.7	149.90		
	66	54	2.0	45.56				18	120	0.7	168.84		
	59	56	3.5	50.89	ECP350/1053	120/240		17	120	0.7	181.24		
	51	65	3.0	58.85				15	120	0.7	195.26		
	44	75	2.6	68.06				13	120	0.7	236.09		
	42	78	2.5	71.16				9.8	120	0.7	307.54		
	38	87	2.3	78.71				811	7.5	2.7	3.70		
	32	102	1.9	92.70				701	8.7	2.3	4.28		
	31	105	1.9	95.17				579	11	1.9	5.18		
	30	109	1.8	99.50				444	14	1.5	6.75		
	28	118	1.7	107.20				218	26	2.3	13.73	ECP600/812	120/240
	26	126	1.5	115.07				189	30	2.0	15.88		
	24	136	1.4	123.97				163	35	1.7	18.36		
	23	142	1.4	129.62				156	37	1.6	19.20		
	22	153	1.3	139.13				135	42	1.4	22.20		
	20	165	1.2	149.90				120	48	1.3	25.01		
	18	186	1.1	168.84				112	51	1.2	26.85		
	17	199	1.0	181.24				104	55	1.1	28.93		
	15	215	0.9	195.26				86	67	0.9	34.97		
	13	259	0.8	236.09				66	86	0.7	45.56		
	9.8	279	0.7	307.54				59	90	1.3	50.89	ECP600/813	120/240
	66	54	2.8	45.56	ECP350/1202	120/240		51	105	1.1	58.85		
	32	102	2.9	92.70				44	121	1.0	68.06		
	18	186	1.6	168.84	ECP350/1203	120/240		42	127	0.9	71.16		
	9.8	338	0.9	307.54				38	140	0.9	78.71		
								32	165	0.7	92.70		
								31	169	0.7	95.17		
								30	171	0.7	99.50		
								28	171	0.7	107.20		
								26	171	0.7	115.07		
								24	171	0.7	123.97		
								23	171	0.7	129.62		
								22	171	0.7	139.13		
								20	171	0.7	149.90		
								18	171	0.7	168.84		
								17	171	0.7	181.24		
								15	171	0.7	195.26		
								13	171	0.7	236.09		
								9.8	171	0.7	307.54		
								701	8.7	4.0	4.28	ECP600/1051	120/240
								579	11	3.3	5.18		
								444	14	2.6	6.75		



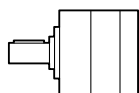
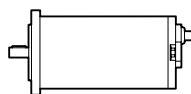
Dati tecnici per servizio S2

Technical data for S2 duty

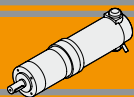
P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version
800						
(3000 min ⁻¹)	218	26	4.0	13.73	ECP600/1052	120/240
	189	30	3.5	15.88		
	163	35	3.0	18.36		
	156	37	2.9	19.20		
	135	42	2.5	22.20		
	120	48	2.2	25.01		
	112	51	2.1	26.85		
	104	55	1.9	28.93		
	86	67	1.6	34.97		
	66	87	1.2	45.56		
	59	90	2.2	50.89	ECP600/1053	120/240
	51	105	1.9	58.85		
	44	121	1.6	68.06		
	42	127	1.5	71.16		
	38	140	1.4	78.71		
	32	165	1.2	92.70		
	31	169	1.2	95.17		
	30	177	1.1	99.50		
	28	191	1.0	107.20		
	26	205	1.0	115.07		
	24	220	0.9	123.97		
	23	230	0.8	129.62		
	22	247	0.8	139.13		
	20	267	0.7	149.90		
	18	279	0.7	168.84		
	17	279	0.7	181.24		
	15	279	0.7	195.26		
	13	279	0.7	236.09		
	9.8	279	0.7	307.54		

Motori applicabili

IEC Motor adapters



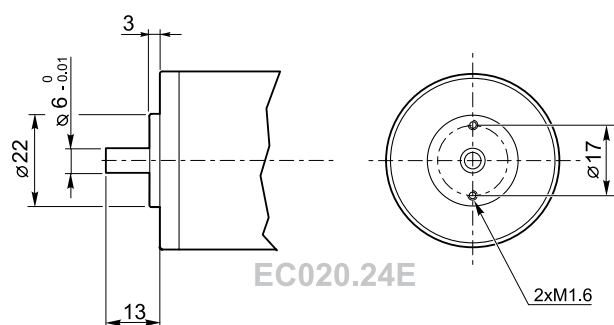
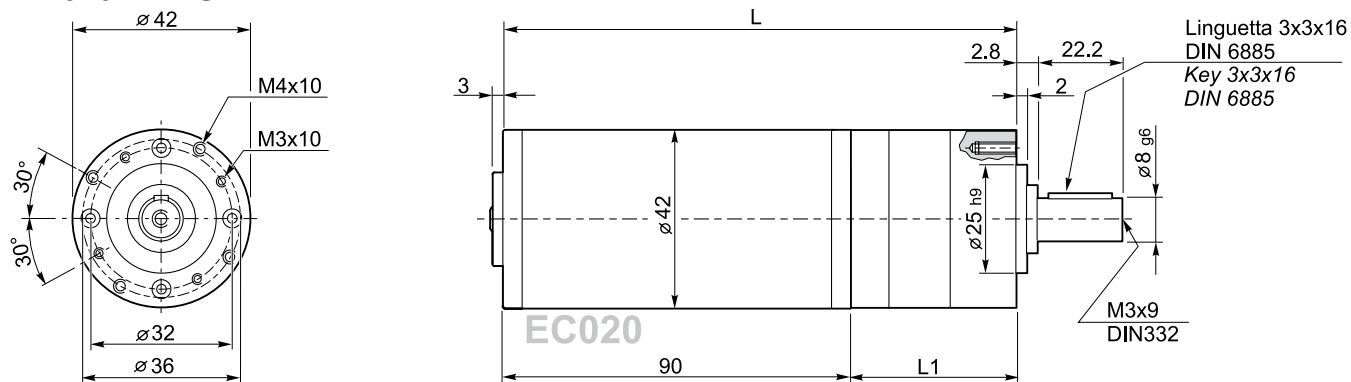
		EC									
		020.120 020.24E	035.120 035.240	050.12E 050.24E	070.120 070.240	100.120 100.240 100.24E	180.120 180.240	180.24E	250.120 250.240	350.120 350.240	600.120 600.240
P	42										
	52										
	62										
	72										
	81										
	105										
	120										



Dimensioni

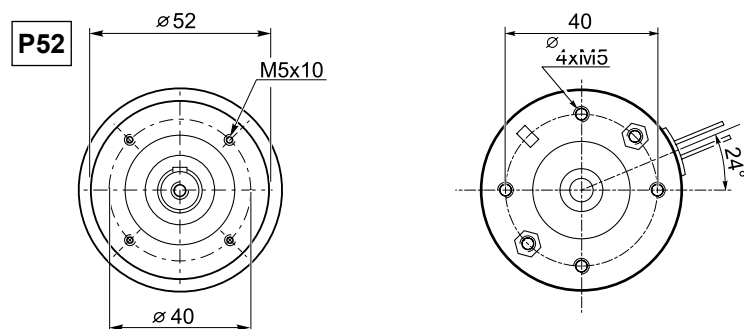
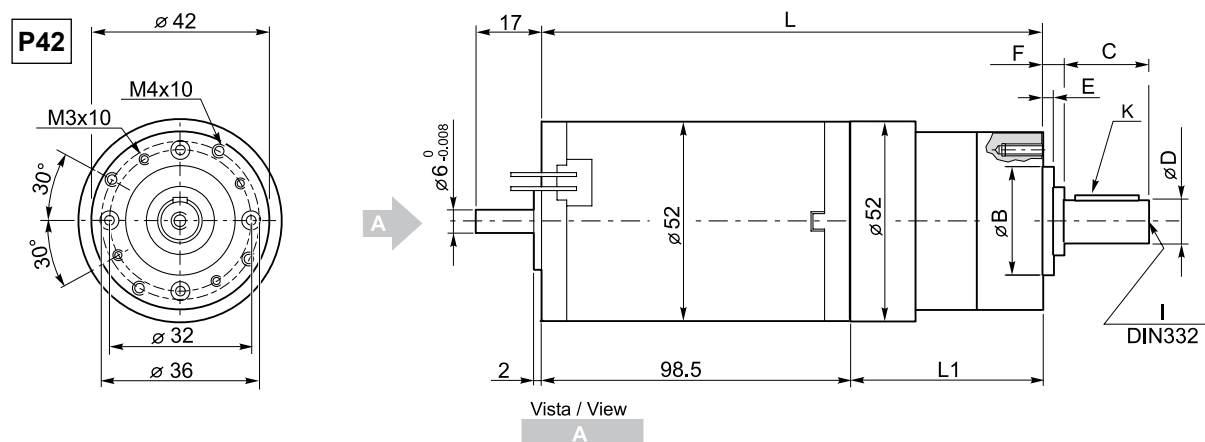
Dimensions

ECP020/42... U

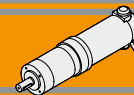


	Numero di stadi / Stages number		
ECP020/42...	1	2	3
L1	60	73	86
L	150	163	176

ECP035/... U



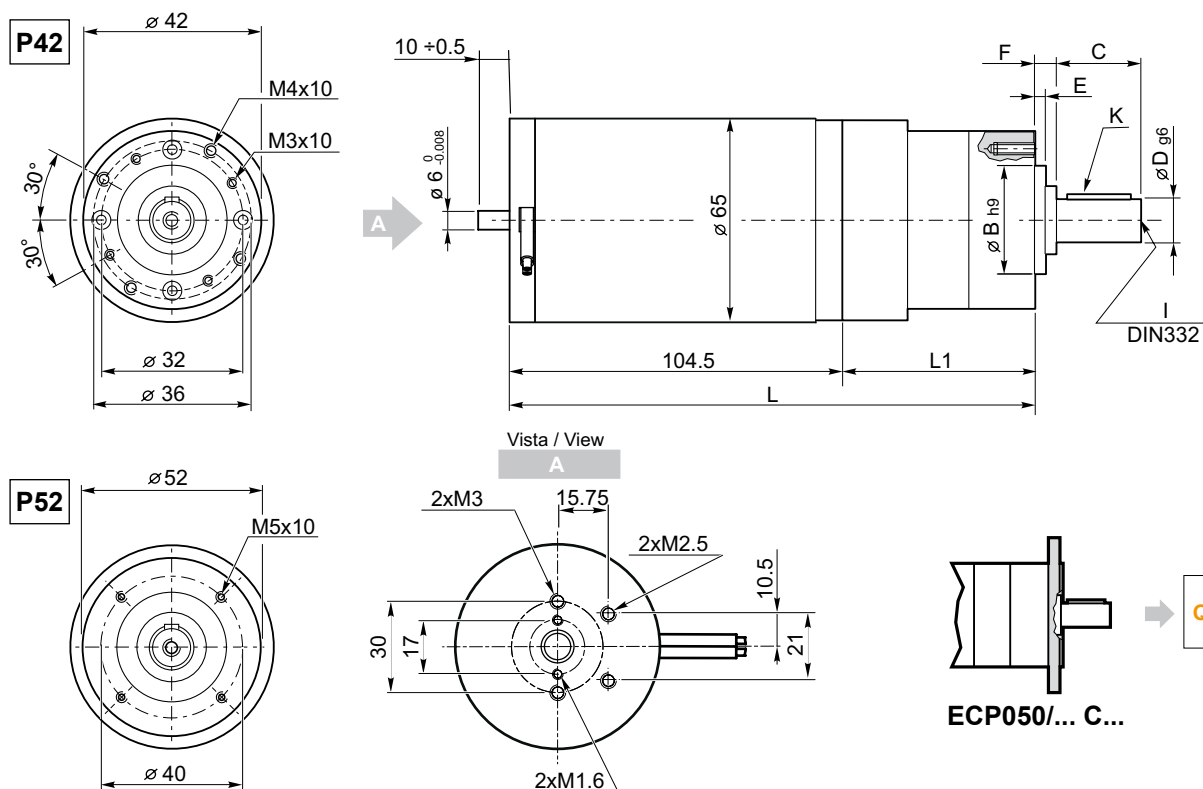
Tipo Type	Numero di stadi Stages number	Dimensioni / Dimensions								
		L1	L	B	C	D	E	F	I	K
ECP035/42...	1	60	158.5	25 h9	22.2	8 g6	2	2.8	M3x9	3x3x16
	2	73	171.5							
	3	86	184.5							
ECP035/52...	1	72.5	175.5	32 h8	20.8	12 h7	3	4.2	M4x10	4x4x16
	2	86.5	189.5							
	3	100.5	203.5							



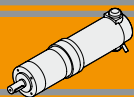
Dimensioni

Dimensions

ECP050/... U



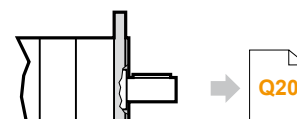
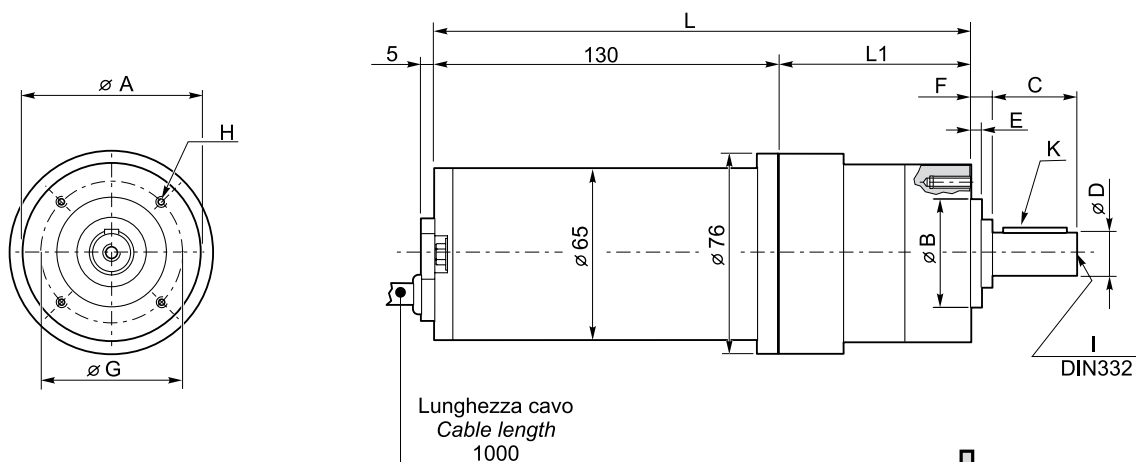
Tipo Type	Numero di stadi Stages number	Dimensioni / Dimensions								
		L1	L	B	C	D	E	F	I	K
ECP050/42...	1	60	164.5	25 h9	22.2	8 g6	2	2.8	M3x9	3x3x16
	2	73	177.5							
	3	86	190.5							
ECP050/52...	1	72.5	177	32 h8	20.8	12 h7	3	4.2	M4x10	4x4x16
	2	86.5	191							
	3	100.5	205							



Dimensioni

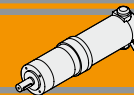
Dimensions

ECP070/... U



ECP070/... C...

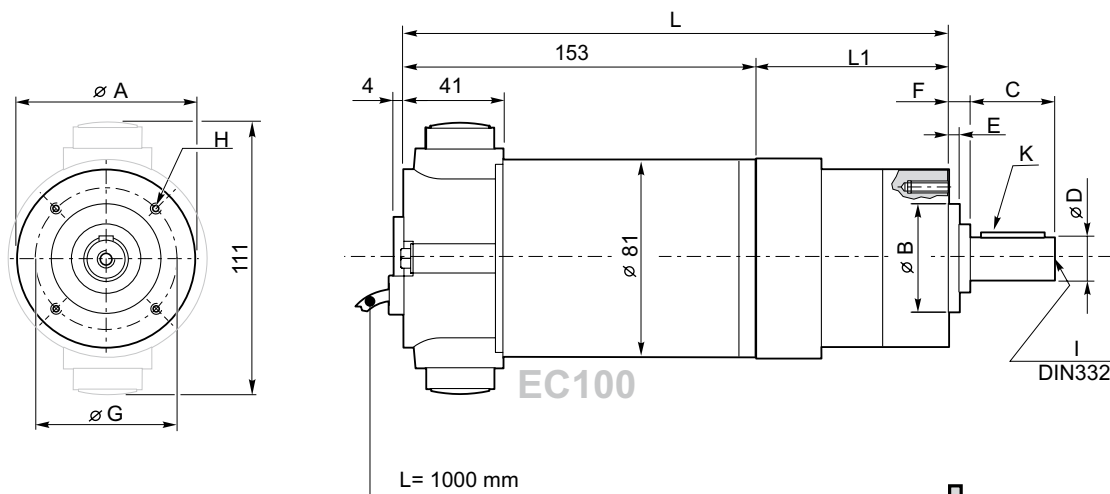
Tipo Type	Numero di stadi Stages number	Dimensioni / Dimensions											
		L1	L	A	B	C	D	E	F	G	H	I	K
ECP070/52...	1	74	204	52	32 h8	20.8	12 h7	3	4.2	40	M5x10	M4x10	4x4x16
	2	88	218										
	3	102	232										
ECP070/62...	1	74	204	62	40 j7	30	14 h7	5	9	52	M5x10	M5x12	5x5x18
	2	90	220										
	3	106	236										
ECP070/72...	1	82.4	212.4	72	45 j7	40	16 h7	5	9	60	M5x10	M5x12	5x5x30
	2	102	232										
	3	121.6	251.6										
ECP070/81...	1	91	221	81	50 j7	40	19 h7	5	9	65	M6x12	M6x16	6x6x28
	2	113	243										
	3	135	265										



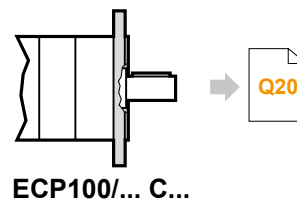
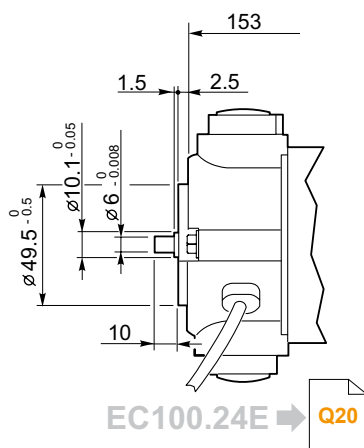
Dimensioni

Dimensions

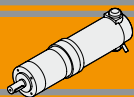
ECP100/... U... 120/140



ECP100/... U... 24E



Tipo Type	Numero di stadi Stages number	Dimensioni / Dimensions											
		L1	L	A	B	C	D	E	F	G	H	I	K
ECP100/52...	1	74	227	52	32 h8	20.8	12 h7	3	4.2	40	M5x10	M4x10	4x4x16
	2	88	241										
	3	102	255										
ECP100/62...	1	74	227	62	40 j7	30	14 h7	5	9	52	M5x10	M5x12	5x5x18
	2	90	243										
	3	106	259										
ECP100/72...	1	82.4	235.4	72	45 j7	40	16 h7	5	9	60	M5x10	M5x12	5x5x30
	2	102	255										
	3	121.6	274.6										
ECP100/81...	1	91	244	81	50 j7	40	19 h7	5	9	65	M6x12	M6x16	6x6x28
	2	113	266										
	3	135	288										



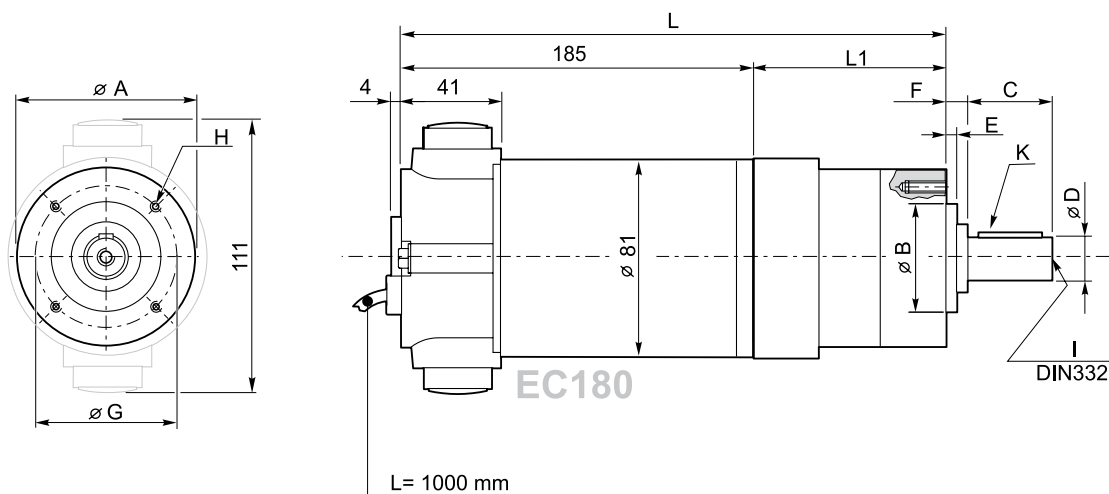
ECP

MOTORIDUTTORI C.C. EPICICLOIDALI
PERMANENT MAGNETS D.C. PLANETARY GEARMOTORS

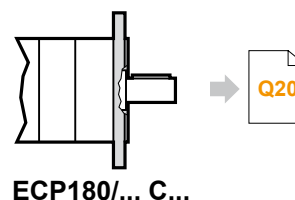
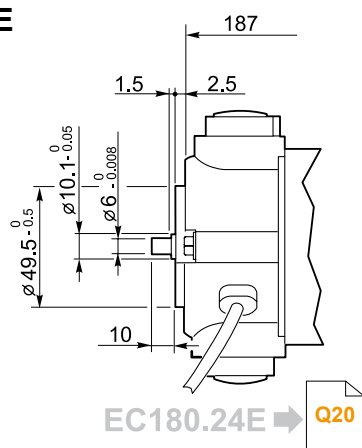
Dimensioni

Dimensions

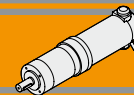
ECP180/... U... 120/240



ECP180/... U... 24E



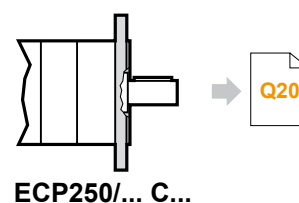
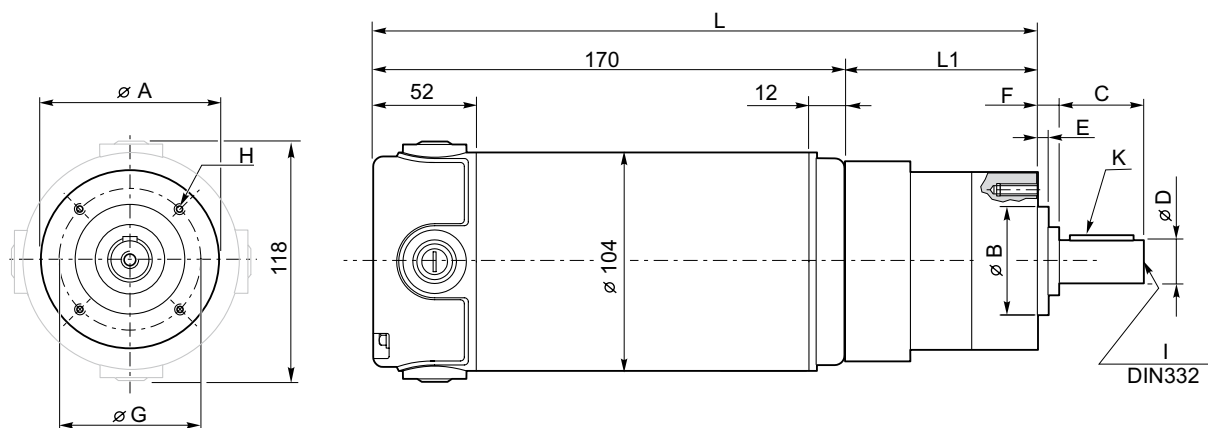
Tipo Type	Numero di stadi Stages number	Dimensioni / Dimensions													
		EC180		EC180.24E		EC180 - EC180.24E									
		L1	L	L1	L	A	B	C	D	E	F	G	H	I	K
ECP180/52...	1	74	259												
	2	88	273			52	32 h8	20.8	12 h7	3	4.2	40	M5x10	M4x10	4x4x16
	3	102	287												
ECP180/62...	1	74	259	76	263										
	2	90	275	92	279	62	40 j7	30	14 h7	5	9	52	M5x10	M5x12	5x5x18
	3	106	291	108	295										
ECP180/72...	1	82.4	267.4	88.4	275.4										
	2	102	287	108	295	72	45 j7	40	16 h7	5	9	60	M5x10	M5x12	5x5x30
	3	121.6	306.6	127.6	314.6										
ECP180/81...	1	91	276	94	281										
	2	113	298	116	303	81	50 j7	40	19 h7	5	9	65	M6x12	M6x16	6x6x28
	3	135	320	138	325										
ECP180/105...	1	113.4	298.4	116.4	303.4										
	2	144.5	329.5	147.5	334.5	105	70 j7	50	25 h7	5	9	85	M8x16	M10x22	8x7x40
	3	175.5	360.5	178.5	365.5										
ECP180/120...	1	131.6	316.6	134.5	321.4										
	2	165.8	350.8	168.6	355.6	120	80 j7	73	32 k6	5	15	100	M10x22	M12	10x8x50
	3	200	385	202.8	389.8										



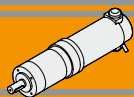
Dimensioni

Dimensions

ECP250/... U



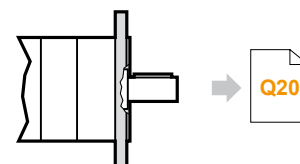
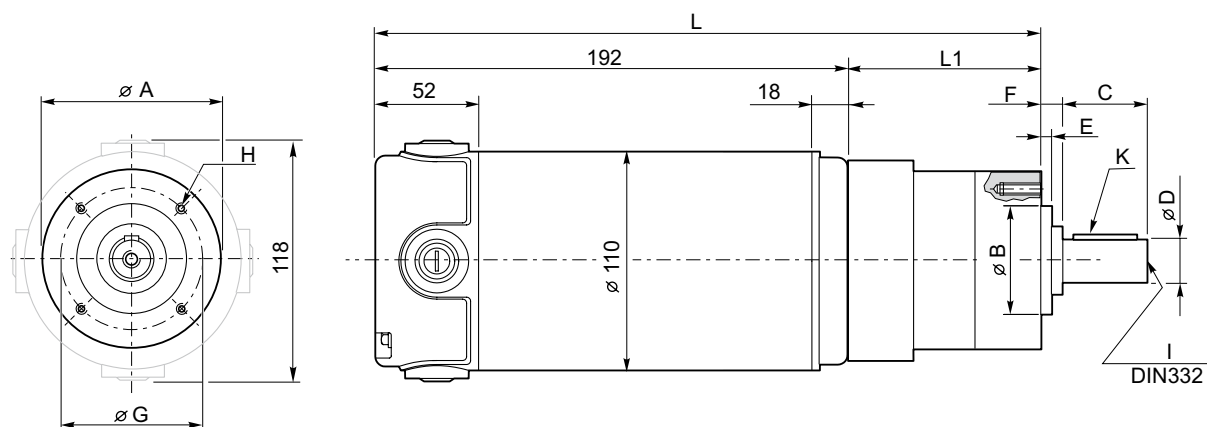
Tipo Type	Numero di stadi Stages number	Dimensioni / Dimensions											
		L1	L	A	B	C	D	E	F	G	H	I	K
ECP250/62...	1	76	246	62	40 j7	30	14 h7	5	9	52	M5x10	M5x12	5x5x18
	2	92	262										
	3	108	278										
ECP250/72...	1	85.4	255.4	72	45 j7	40	16 h7	5	9	60	M5x10	M5x12	5x5x30
	2	105	275										
	3	124.6	294.6										
ECP250/81...	1	94	264	81	50 j7	40	19 h7	5	9	65	M6x12	M6x16	6x6x28
	2	116	286										
	3	138	308										
ECP250/105...	1	113.4	283.4	105	70 j7	50	25 h7	5	9	85	M8x16	M10x22	8x7x40
	2	144.5	314.5										
	3	175.5	345.5										
ECP250/120...	1	131.6	301.6	120	80 j7	73	32 k6	5	15	100	M10x22	M12	10x8x50
	2	165.8	335.8										
	3	200	370										



Dimensioni

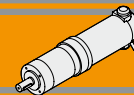
Dimensions

ECP350/... U



ECP350/... C...

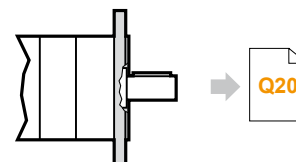
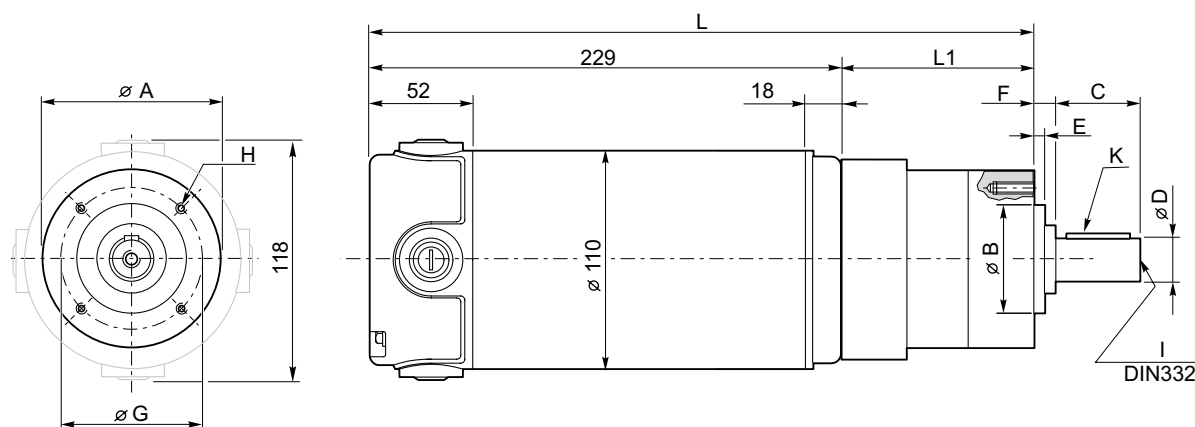
Tipo Type	Numero di stadi Stages number	Dimensioni / Dimensions											
		L1	L	A	B	C	D	E	F	G	H	I	K
ECP350/62...	1	76	268	62	40 j7	30	14 h7	5	9	52	M5x10	M5x12	5x5x18
	2	92	284										
	3	108	300										
ECP350/72...	1	85.4	277.4	72	45 j7	40	16 h7	5	9	60	M5x10	M5x12	5x5x30
	2	105	297										
	3	124.6	316.6										
ECP350/81...	1	94	286	81	50 j7	40	19 h7	5	9	65	M6x12	M6x16	6x6x28
	2	116	308										
	3	138	330										
ECP350/105...	1	113.4	305.4	105	70 j7	50	25 h7	5	9	85	M8x16	M10x22	8x7x40
	2	144.5	336.5										
	3	175.5	367.5										
ECP350/120...	1	131.6	323.6	120	80 j7	73	32 k6	5	15	100	M10x22	M12	10x8x50
	2	165.8	357.8										
	3	200	392										



Dimensioni

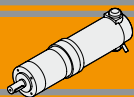
Dimensions

ECP600/... U



ECP600/... C...

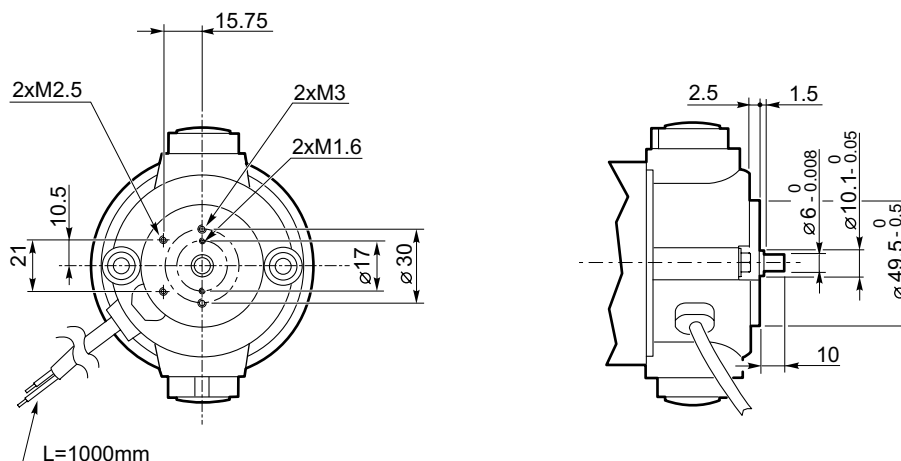
Tipo Type	Numero di stadi Stages number	Dimensioni / Dimensions											
		L1	L	A	B	C	D	E	F	G	H	I	K
ECP600/72...	1	92.4	321.4	72	45 j7	40	16 h7	5	9	60	M5x10	M5x12	5x5x30
	2	112	341										
	3	131.6	360.6										
ECP600/81...	1	101	330	81	50 j7	40	19 h7	5	9	65	M6x12	M6x16	6x6x28
	2	123	352										
	3	145	374										
ECP600/105...	1	120.4	349.4	105	70 j7	50	25 h7	5	9	85	M8x16	M10x22	8x7x40
	2	151.5	380.5										
	3	182.5	411.5										
ECP600/120...	1	133.7	362.7	120	80 j7	73	32 k6	5	15	100	M10x22	M12	10x8x50
	2	167.9	396.9										
	3	202.1	431.1										



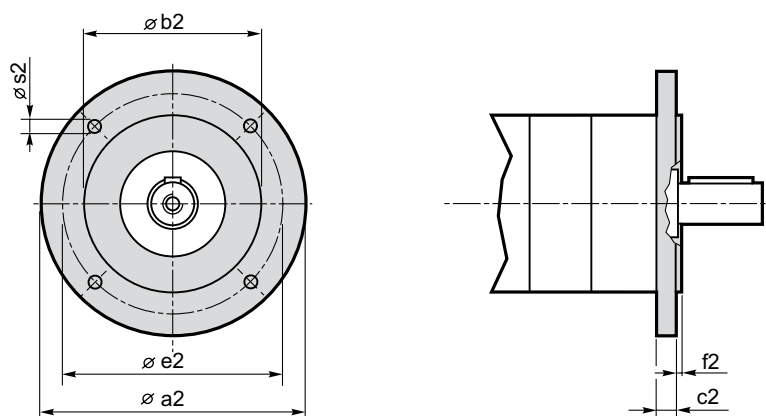
Dimensioni

Dimensions

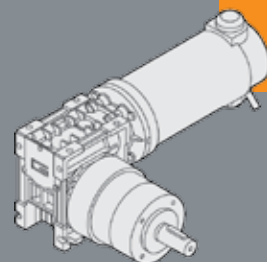
ECP100.24E
ECP180.24E



ECP.../... C... Flange uscita / Output flanges



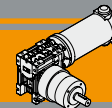
Dimensioni / Dimensions							
P	a2	b2	c2	e2	f2	s2	Flangia uscita Output flange
52	80	50 j7	9	65	2.5	M5	C80
	90	60 j7	9	75	2.5	5.5	C90
	105	70 j7	9	85	2.5	6.5	C105
	120	80 j7	9	100	3.0	6.5	C120
62	80	50 j7	9	65	2.5	M5	C80
	90	60 j7	9	75	2.5	5.5	C90
	105	70 j7	9	85	2.5	6.5	C105
	120	80 j7	9	100	3.0	6.5	C120
72	80	50 j7	9	65	2.5	M5	C80
	90	60 j7	9	75	2.5	M5	C90
	105	70 j7	9	85	2.5	6.5	C105
	120	80 j7	9	100	3.0	6.5	C120
81	90	60 j7	9	75	2.5	M5	C90
	105	70 j7	9	85	2.5	M6	C105
	120	80 j7	9	100	3.0	6.5	C120
105	120	80 j7	12	100	3	M6	C120
	140	95 j7	12	115	3.5	M8	C140
	160	110 j7	12	130	3.5	M8	C160
120	140	95 j7	15	115	3	M8	C140
	160	110 j7	15	130	3.5	M8	C160



MOTORIDUTTORI C.C. COMBINATI

PERMANENT MAGNETS D.C. COMBINATION GEARMOTORS

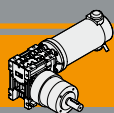




Indice	Index	Pag. Page
Caratteristiche tecniche	<i>Technical features</i>	R2
Designazione	<i>Classification</i>	R2
Versioni	<i>Versions</i>	R2
Simbologia	<i>Symbols</i>	R2
Lubrificazione	<i>Lubrication</i>	R2
Carichi radiali	<i>Radial loads</i>	R3
Rapporti	<i>Ratios</i>	R3
Rendimento	<i>Efficiency</i>	R3
Dati tecnici	<i>Technical data</i>	R4
Dimensioni	<i>Dimensions</i>	R5
Opzioni	<i>Options</i>	R10

Questa sezione annulla e sostituisce ogni precedente edizione o revisione. Qualora questa sezione non Vi sia giunta in distribuzione controllata, l'aggiornamento dei dati ivi contenuto non è assicurato. **In tal caso la versione più aggiornata è disponibile sul nostro sito internet www.transtecno.com**

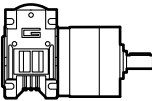
*This section replaces any previous edition and revision. If you obtained this catalogue other than through controlled distribution channels, the most up to date content is not guaranteed. **In this case the latest version is available on our web site www.transtecno.com***

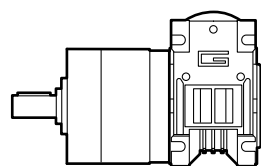
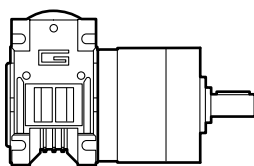
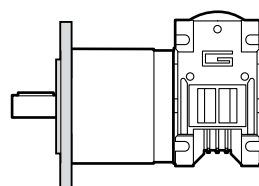
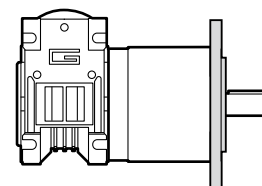
**ECWMP****MOTORIDUTTORI C.C. COMBINATI****PERMANENT MAGNETS D.C. COMBINATION GEARMOTORS****Caratteristiche tecniche****Technical features**

L'accoppiamento di un riduttore a vite senza fine con un riduttore epicicloidale consente di ottenere elevati rapporti di riduzione ($i_{max} = 1/18452$) e di disporre di un gruppo autolubrificato compatto, silenzioso e con un'elevata affidabilità.

The coupling of a wormgearbox to a planetary gearbox allows to obtain high reduction ratios ($i_{max} = 1/18452$) and to get a compact, silent, self lubricated with high reliability group.

Designazione**Classification**

MOTORIDUTTORE / GEARMOTOR												
ECWMP		070/026/52				2	CD	90	405	240	VS	
Tipo Type	Grandezza Size					Numero stadi epicicloidale Planetary stages number	Versione Riduttore Gearbox Version	Flangia Uscita Output flange	Rapporto Ratio	Versione Motore Motor Version	Opzioni Options	
	ECWMP	070/026/52	100/026/52	180/026/62	250/030/81	350/030/81	1	US	80	Vedere tabella See tables	120 240 24E	VS
		070/026/62	100/026/62	180/030/81			2	UD	90			
		070/030/81	100/030/81				3	CS	105			
								CD	120			

Versioni**Versions****US****UD****CS****CD****Simbologia****Symbols**

n_1	[min ⁻¹]	Velocità in ingresso / <i>Input speed</i>
n_2	[min ⁻¹]	Velocità in uscita / <i>Output speed</i>
i		Rapporto di riduzione / <i>Ratio</i>
P_1	[kW]	Potenza in entrata / <i>Input power</i>
M_n	[Nm]	Coppia nominale in uscita del riduttore / <i>Maximum output torque of the gearbox</i>
M_2	[Nm]	Coppia in uscita in funzione di P_1 / <i>Output torque referred to P_1</i>
sf		Fattore di servizio / <i>Service factor</i>
R_d	%	Rendimento dinamico / <i>Dynamic efficiency</i>
A_2	[N]	Carico assiale ammissibile in uscita / <i>Permitted output axial load</i>
R_2	[N]	Carico radiale ammissibile in uscita / <i>Permitted output radial load</i>

Lubrificazione**Lubrication**

I riduttori a vite senza fine della serie CM sono lubrificati a vita con olio sintetico di viscosità 320 e possono essere installati in qualunque posizione di montaggio.

Permanent synthetic oil long-life lubrication allow to use CM wormgearbox range in all mounting position.

I riduttori epicicloidali sono lubrificati in modo permanente, non richiedono quindi ulteriore manutenzione.

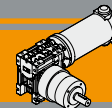
Planetary gearboxes are life-time lubricated with grease, therefore they are maintenance free.

Questo gli consente di essere installati praticamente ovunque.

They can be installed in any location.

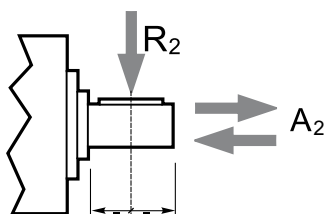
La temperatura di funzionamento consentita va da -30°C a + 140°C; per applicazioni particolari possono essere adottate misure per raggiungere livelli di temperatura maggiori.

The temperature range is from -30°C up to + 140°C; for special applications, measures can be taken for higher temperature range.



Carichi radiali

Radial loads



Numero di stadi Stages number	Carichi Radiali R_2 [N] Radial Load R_2 [N]		
	P52	P62	P81
1	200	240	400
2	320	360	600
3	450	520	1000

Numero di stadi Stages number	Carichi Assiali A_2 [N] Axial Load A_2 [N]		
	P52	P62	P81
1	60	70	80
2	100	100	120
3	150	150	200

Rapporti

Ratios

Motoriduttore Gearmotor	Numero stadi epicicloidale Planetary stages number	Rapporto epicicloidale Planetary ratio	Rapporto vite senza fine Wormgearbox ratio	Rapporto finale Total ratio
.../026/052 .../026/062 .../030/081	1	6.75	10	67.5
			15	101.3
			20	135
			30	202.5
			40	270
			50	337.5
	2	28.93	60	405
			10	289.3
			15	434.0
			20	578.6
			30	867.9
			40	1157
			50	1447
			60	1736
		34.97	60	2098
		45.56	60	2734

Rendimento

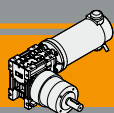
Efficiency

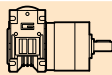
Motoriduttore Gearmotor	n ₁ [min ⁻¹]	Rendimento Efficiency	Rapporto / Ratio															
			67.5	101.3	135	202.5	270	337.5	405	289.3	434.0	578.6	867.9	1157	1447	1736	2098	2734
.../026/052	2800	Rd %	68	66	64	58	54	51	48	64	62	60	54	51	48	45	45	45
.../026/062			68	66	64	58	54	51	48	64	62	60	54	51	48	45	45	45
.../030/081			68	67	64	59	56	52	49	64	63	60	55	52	48	46	46	46

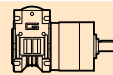


Rendimento teorico del riduttore dopo il rodaggio

Theoretical efficiency of the gearbox after the first running period

**ECWMP****MOTORIDUTTORI C.C. COMBINATI**
PERMANENT MAGNETS D.C. COMBINATION GEARMOTORS**Dati tecnici per servizio S2****Technical data for S2 duty**

P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version
100						
(3000 min ⁻¹)	44.4	14	1.8	67.5	070/026/521	120/240
	29.6	21	1.2	101.3		
	22.2	25	1.0	135.0		
	14.8	25	1.0	202.5		
	11.1	25	1.0	270.0	070/026/522	120/240
	10.4	25	1.0	289.3		
	8.9	25	1.0	337.5		
	7.4	25	1.0	405		
	6.9	25	1.0	434	070/026/522	120/240
	5.2	25	1.0	579		
	3.5	25	1.0	868		
	2.6	25	1.0	1157		
	2.1	25	1.0	1447	070/026/621	120/240
	1.7	25	1.0	1736		
	1.4	25	1.0	2098		
	1.1	25	1.0	2734		
(3000 min ⁻¹)	44.4	14	2.8	67.5	070/026/621	120/240
	29.6	21	1.9	101.3		
	22.2	27	1.5	135.0		
	14.8	37	1.1	202.5		
	11.1	40	1.0	270.0	070/026/622	120/240
	10.4	50	1.0	289.3		
	8.9	40	1.0	337.5		
	7.4	40	1.0	405.0		
	6.9	50	1.0	434.0	070/026/622	120/240
	5.2	50	1.0	578.6		
	3.5	50	1.0	867.9		
	2.6	50	1.0	1157		
	2.1	50	1.0	1447	070/030/811	120/240
	1.7	50	1.0	1736		
	1.4	50	1.0	2098		
	1.1	50	1.0	2734		
(3000 min ⁻¹)	44.4	14	5.6	67.5	070/030/811	120/240
	29.6	21	3.8	101.3		
	22.2	27	2.9	135.0		
	14.8	37	2.2	202.5		
	11.1	47	1.7	270.0	070/030/812	120/240
	10.4	58	2.1	289.3		
	8.9	54	1.5	337.5		
	7.4	62	1.3	405.0		
	6.9	85	1.4	434.0	070/030/812	120/240
	5.2	109	1.1	578.6		
	3.5	120	1.0	867.9		
	2.6	120	1.0	1157		
	2.1	120	1.0	1447	070/030/812	120/240
	1.7	120	1.0	1736		
	1.4	120	1.0	2098		
	1.1	120	1.0	2734		

P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		Versione motore Motor version
140						
(3000 min ⁻¹)	44.4	20	1.3	67.5	100/026/521	120/240/24E
	29.6	25	1.0	101.3		
	22.2	25	1.0	135.0		
	14.8	25	1.0	202.5		
	10.4	25	1.0	289.3	100/026/621	120/240/24E
	8.9	25	1.0	337.5		
	7.4	25	1.0	405.0		
	6.9	25	1.0	434.0		
	5.2	25	1.0	578.6	100/030/811	120/240/24E
	44.4	20	2.0	67.5		
	29.6	29	1.4	101.3		
	22.2	37	1.1	135.0		
	14.8	40	1.0	202.5		
	10.4	80	1.5	289.3	100/030/812	120/240/24E
	8.9	75	1.1	337.5		
	7.4	80	1.0	405.0		
	6.9	120	1.0	434.0		

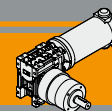
250						
(3000 min ⁻¹)	44.4	37	1.1	67.5	180/026/621	120/240
	29.6	40	1.0	101.3		
	22.2	40	1.0	135.0		
	14.8	40	1.0	202.5		
	11.1	40	1.0	270.0	180/030/811	120/240/24E
	10.4	50	1.0	289.3		
	8.9	40	1.0	337.5		
	7.4	40	1.0	405.0		
	6.9	50	1.0	434.0	180/030/812	120/240/24E
	5.2	50	1.0	578.6		
	44.4	37	2.2	67.5		
	29.6	54	1.5	101.3		
	22.2	70	1.1	135.0		
	14.8	80	1.0	202.5		
	11.1	80	1.0	270.0		

350						
(3000 min ⁻¹)	44.4	52	1.5	67.5	250/030/811	120/240
	29.6	76	1.1	101.3		
	22.2	80	1.0	135.0		
	14.8	80	1.0	202.5		
	11.1	80	1.0	270.0		
	10.4	80	1.0	289.3		

500						
(3000 min ⁻¹)	44.4	73	1.1	67.5	350/030/811	120/240
	29.6	80	1.0	101.3		
	22.2	80	1.0	135.0		

Nota: Verificare sempre che la coppia M₂ utilizzata non ecceda il valore indicato nelle caselle in grigio

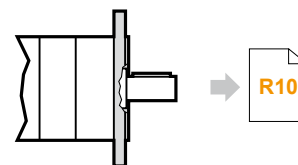
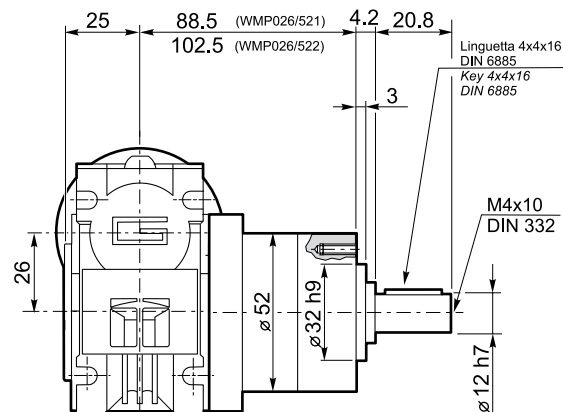
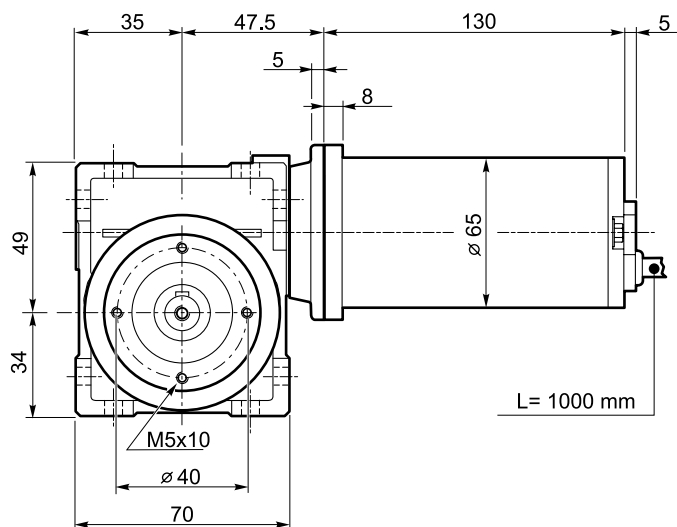
Note: Please check that the output torque M₂ does not exceed the value into the grey areas



Dimensioni

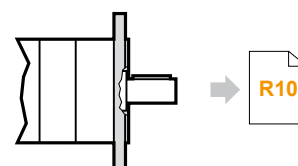
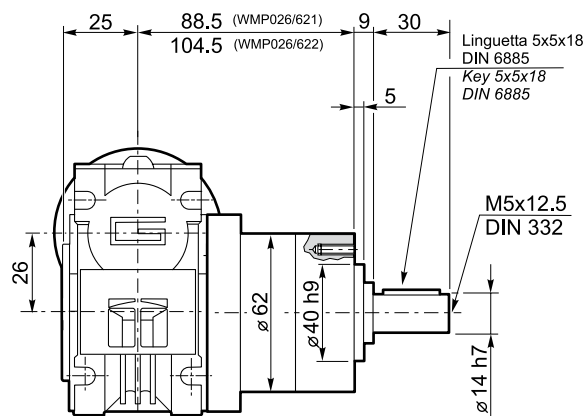
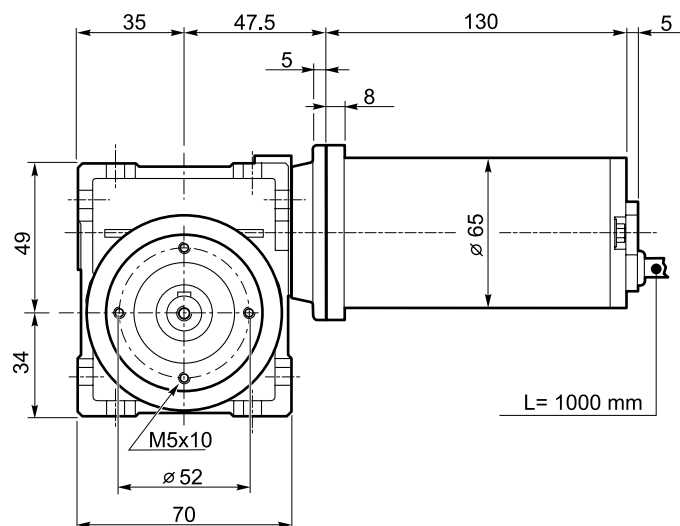
Dimensions

ECWMP070/026/52...U

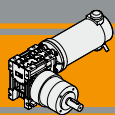
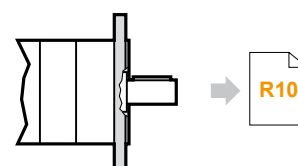
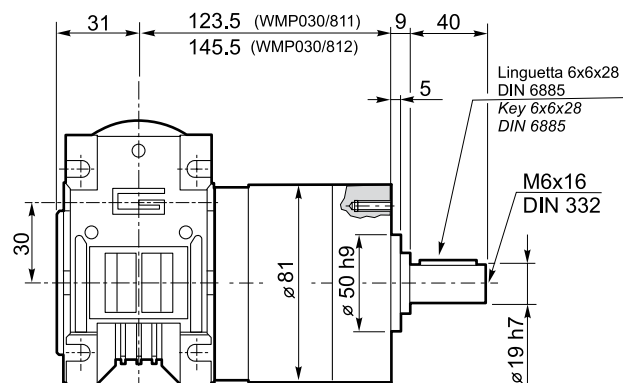
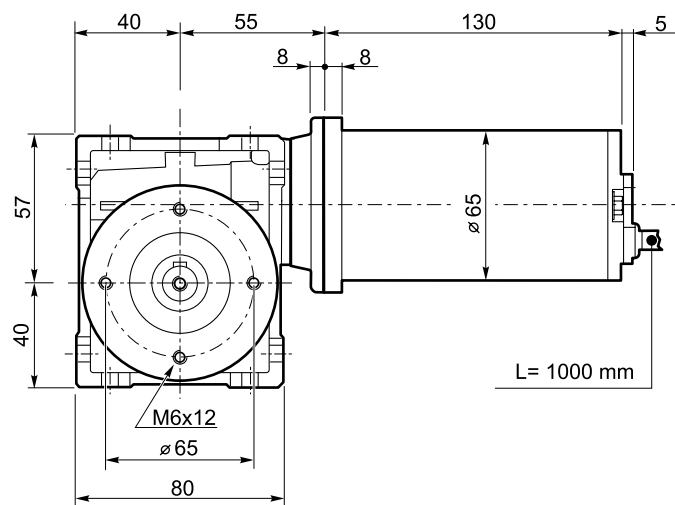
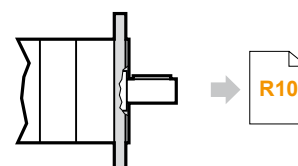
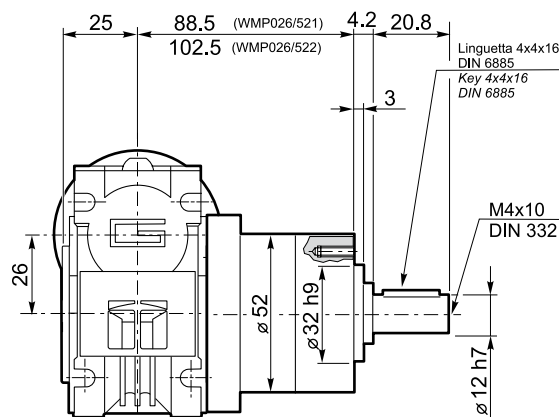
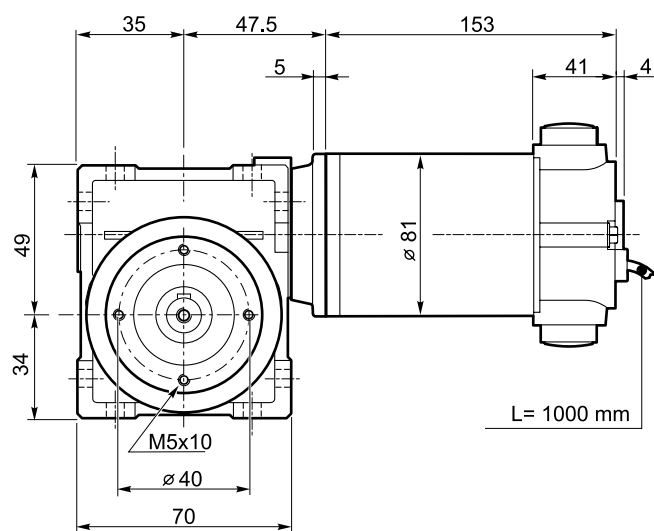


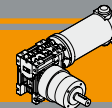
ECWMP070/026/52...C

ECWMP070/026/62...U



ECWMP070/026/62...C

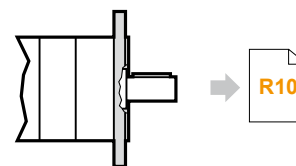
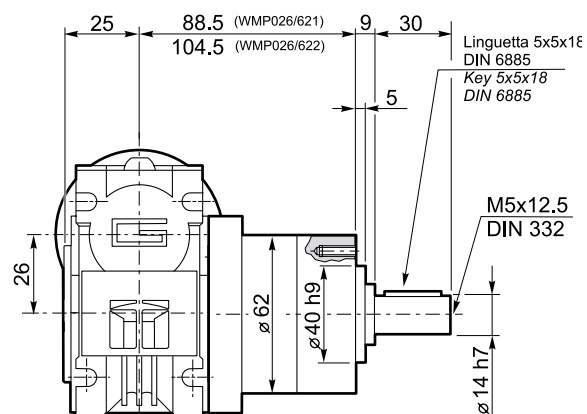
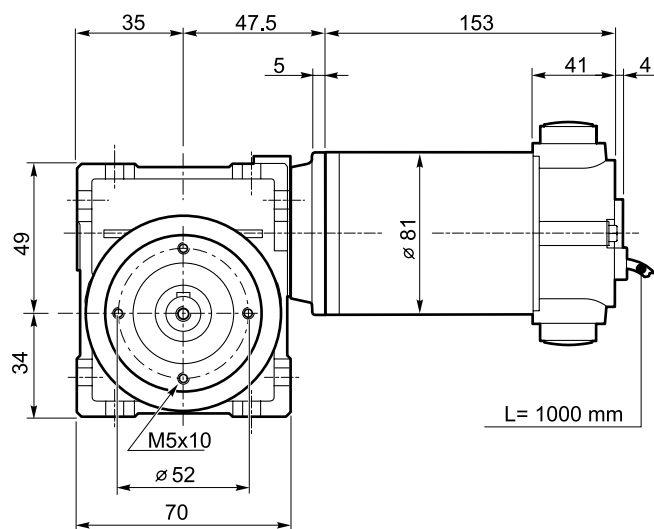
**ECWMP****MOTORIDUTTORI C.C. COMBINATI****PERMANENT MAGNETS D.C. COMBINATION GEARMOTORS****Dimensioni****Dimensions****ECWMP070/030/81...U****ECWMP070/030/81...C****ECWMP100/026/52...U****ECWMP100/026/52...C**



Dimensioni

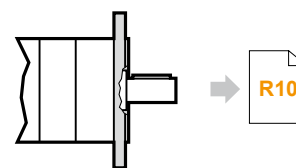
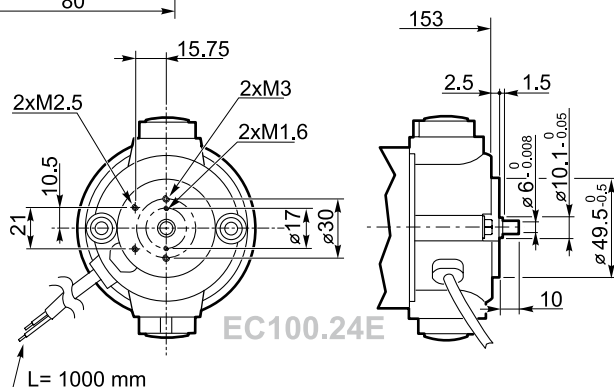
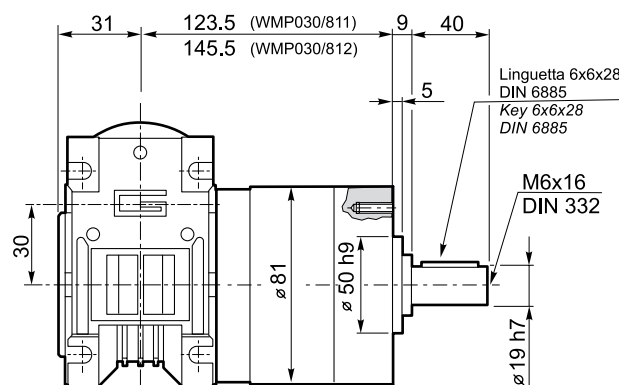
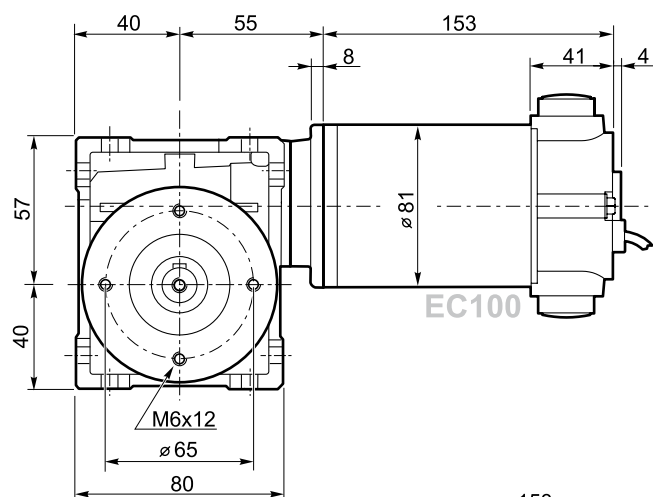
Dimensions

ECWMP100/026/62...U



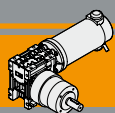
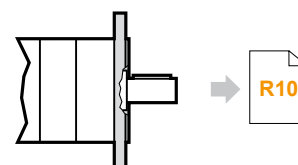
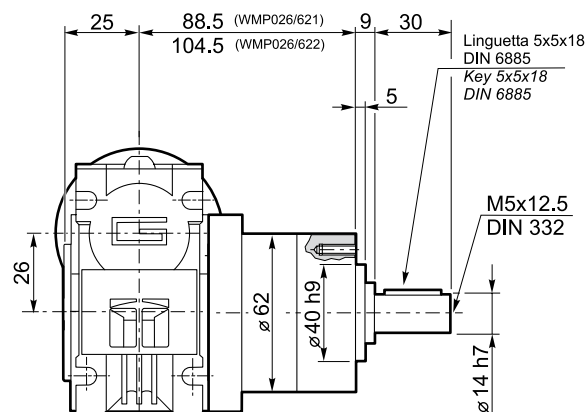
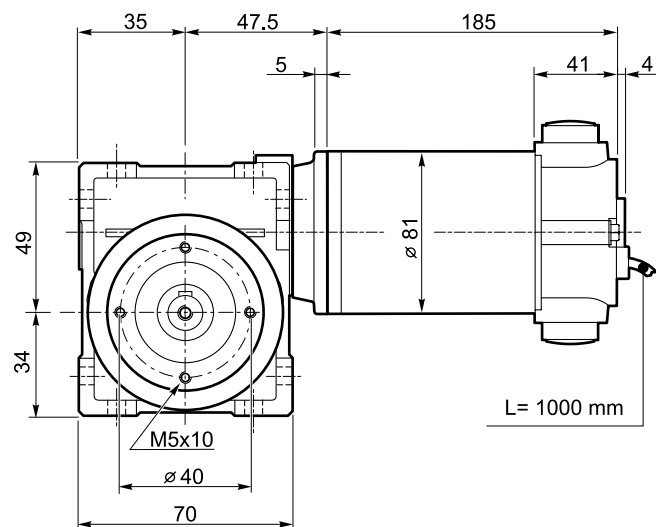
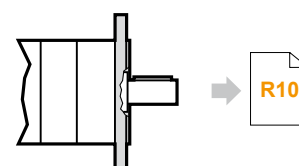
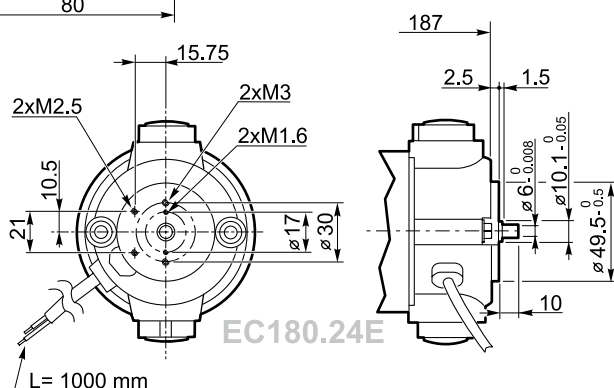
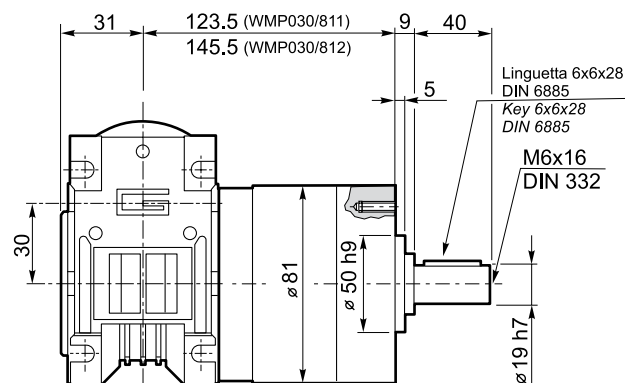
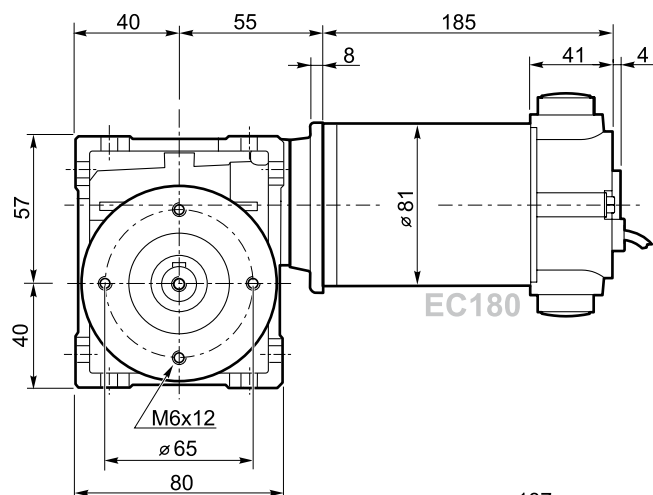
ECWMP100/026/62...C

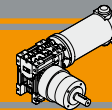
ECWMP100/030/81...U



ECWMP100/030/81...C

ECWMP

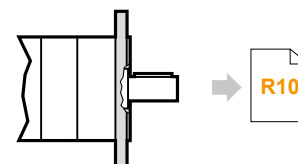
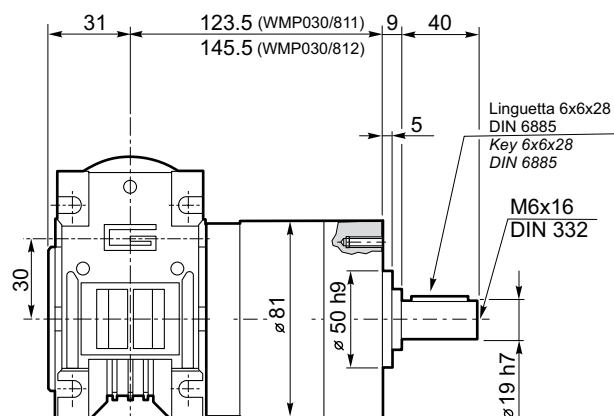
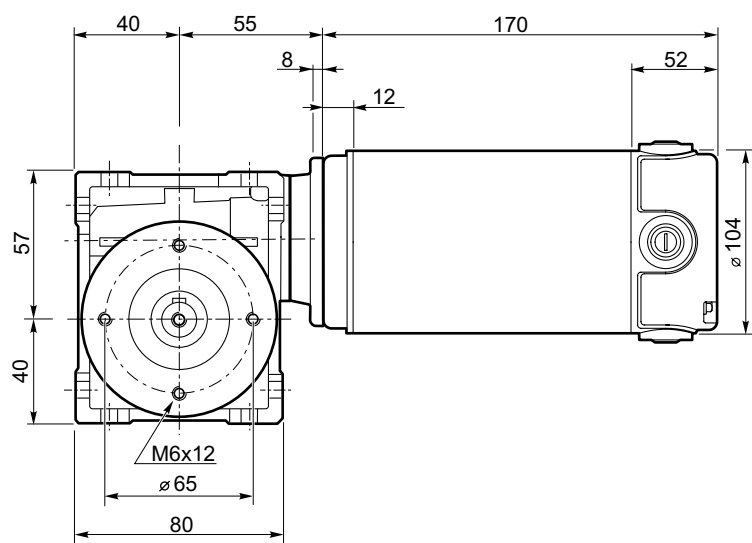
**ECWMP****MOTORIDUTTORI C.C. COMBINATI****PERMANENT MAGNETS D.C. COMBINATION GEARMOTORS****Dimensioni****Dimensions****ECWMP180/026/62...U****ECWMP180/026/62...C****ECWMP180/030/81...U****ECWMP180/030/81...C**



Dimensioni

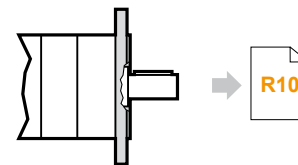
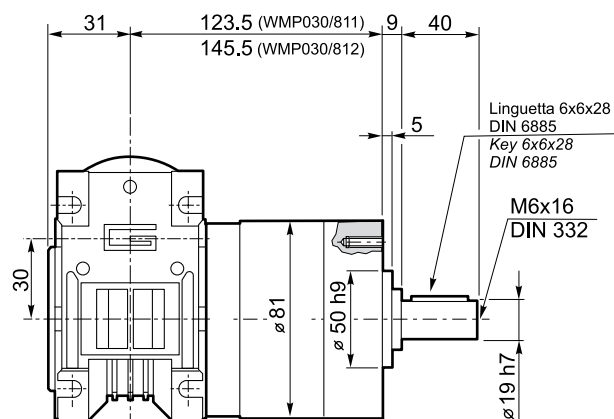
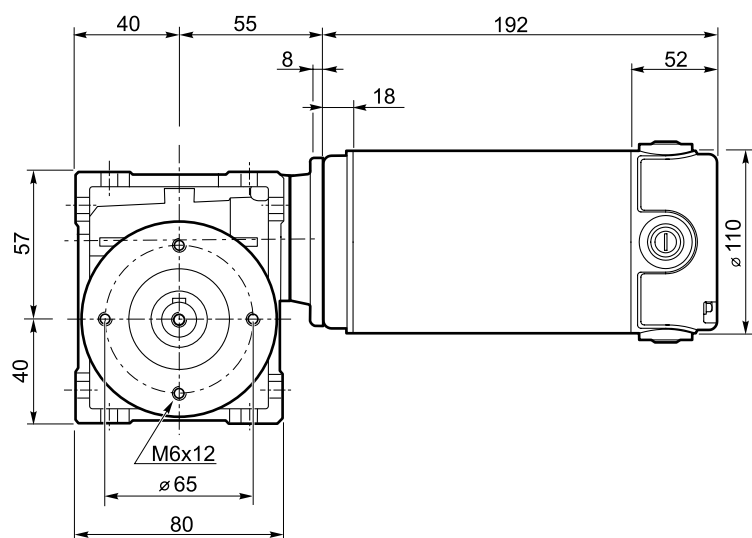
Dimensions

ECWMP250/030/81...U

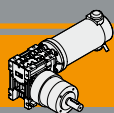


ECWMP250/030/81...C

ECWMP350/030/81...U



ECWMP350/030/81...C



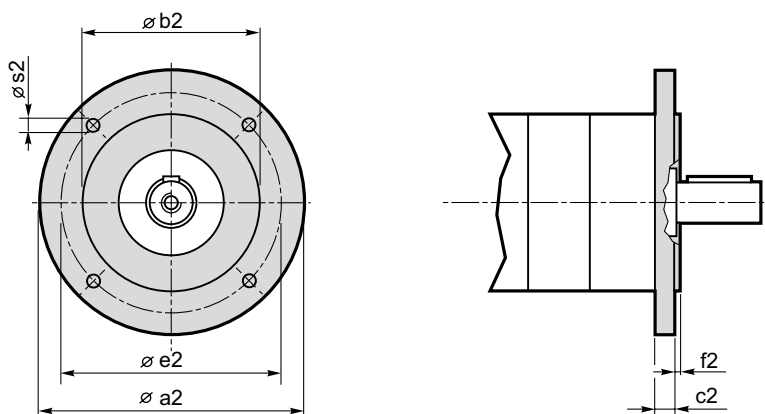
ECWMP

MOTORIDUTTORI C.C. COMBINATI PERMANENT MAGNETS D.C. COMBINATION GEARMOTORS

Dimensioni

Dimensions

ECWMP.../.../... C... Flange uscita / Output flanges

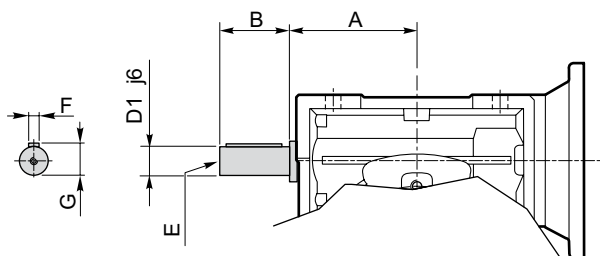


Dimensioni / Dimensions							
P	a2	b2	c2	e2	f2	s2	Flangia uscita Output flange
52	80	50 j7	9	65	2.5	M5	C80
	90	60 j7	9	75	2.5	5.5	C90
	105	70 j7	9	85	2.5	6.5	C105
	120	80 j7	9	100	3.0	6.5	C120
62	80	50 j7	9	65	2.5	M5	C80
	90	60 j7	9	75	2.5	5.5	C90
	105	70 j7	9	85	2.5	6.5	C105
	120	80 j7	9	100	3.0	6.5	C120
81	90	60 j7	9	75	2.5	M5	C90
	105	70 j7	9	85	2.5	M6	C105
	120	80 j7	9	100	3.0	6.5	C120

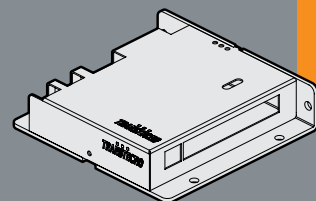
Opzioni

Options

VS - Vite sporgente / Extended input shaft



	A	B	D ₁ j6	E	F	G
CM 030	45	20	9	M4	3	10.2



AZIONAMENTI PER MOTORI C.C. *D.C. MOTOR CONTROLS*



	Indice	Index	Pag. Page
PLN19-8	Schema dei collegamenti	<i>Main connection diagram</i>	S2
	Caratteristiche tecniche	<i>Technical features</i>	S2
	Dimensioni	<i>Dimensions</i>	S3
	Opzioni	<i>Options</i>	S3
PLN20 PLN40	Schema dei collegamenti	<i>Main connection diagram</i>	S4
	Caratteristiche tecniche	<i>Technical features</i>	S5
	Dotazioni	<i>Equipment</i>	S5
	Manuale	<i>User manual</i>	S5
	Dimensioni	<i>Dimensions</i>	S6
	GUIDA alla selezione dell'azionamento	<i>Drive selection GUIDE</i>	S7
	Note	<i>Note</i>	S8

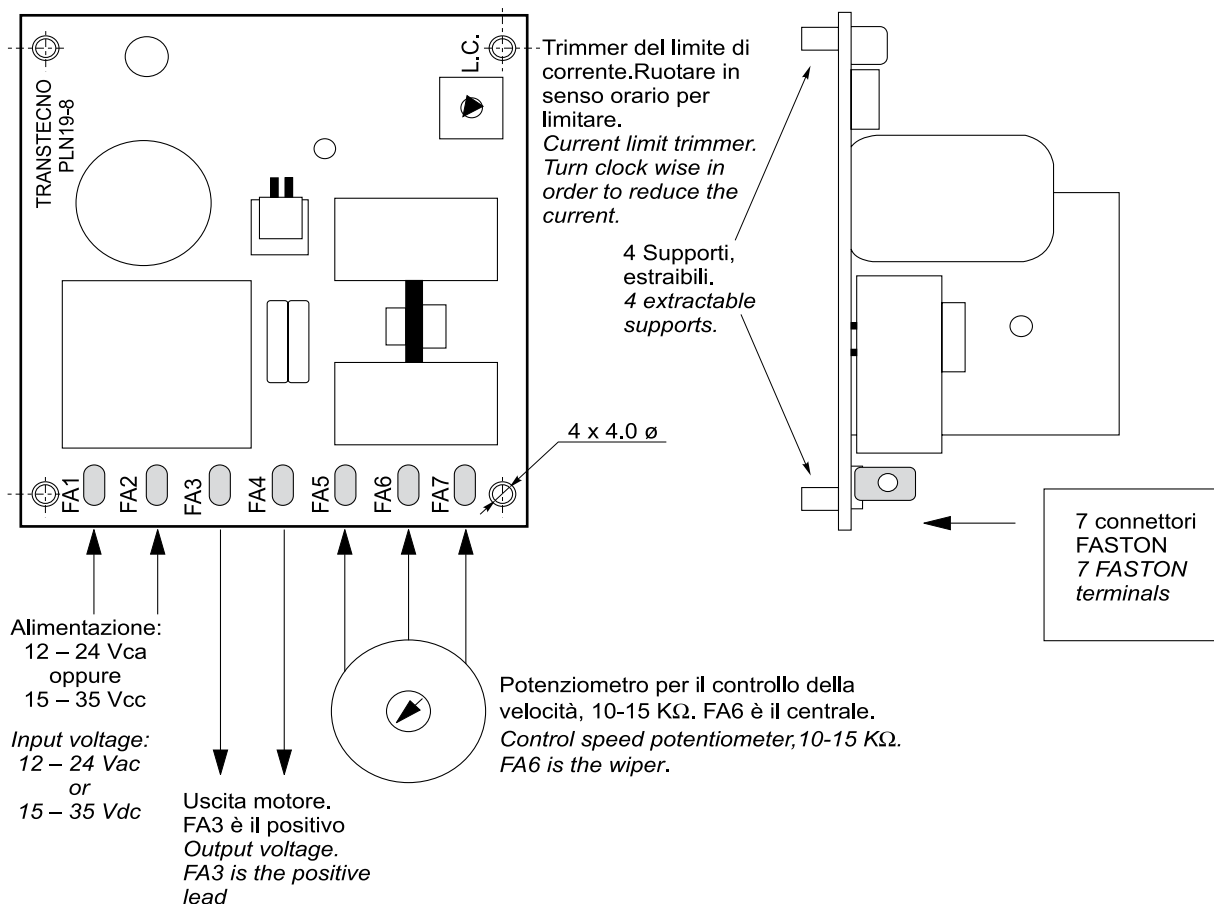
Questa sezione annulla e sostituisce ogni precedente edizione o revisione. Qualora questa sezione non Vi sia giunta in distribuzione controllata, l'aggiornamento dei dati ivi contenuto non è assicurato. **In tal caso la versione più aggiornata è disponibile sul nostro sito internet www.transtecno.com**

This section replaces any previous edition and revision. If you obtained this catalogue other than through controlled distribution channels, the most up to date content is not guaranteed. In this case the latest version is available on our web site www.transtecno.com

AZIONAMENTO UNIDIREZIONALE PWM PER LA REGOLAZIONE DI VELOCITA' DEI MOTORI A CORRENTE CONTINUA A BASSA TENSIONE

LOW VOLTAGE SINGLE DIRECTION PWM DC MOTORS CONTROL

SCHEMA DEI COLLEGAMENTI - MAIN CONNECTION DIAGRAM



Attenzione: se si scollega il potenziometro con la scheda alimentata, il motore ruota alla velocità nominale.

Warning: if speed pot is disconnected when the board is powered, the motor runs at its maximum speed.

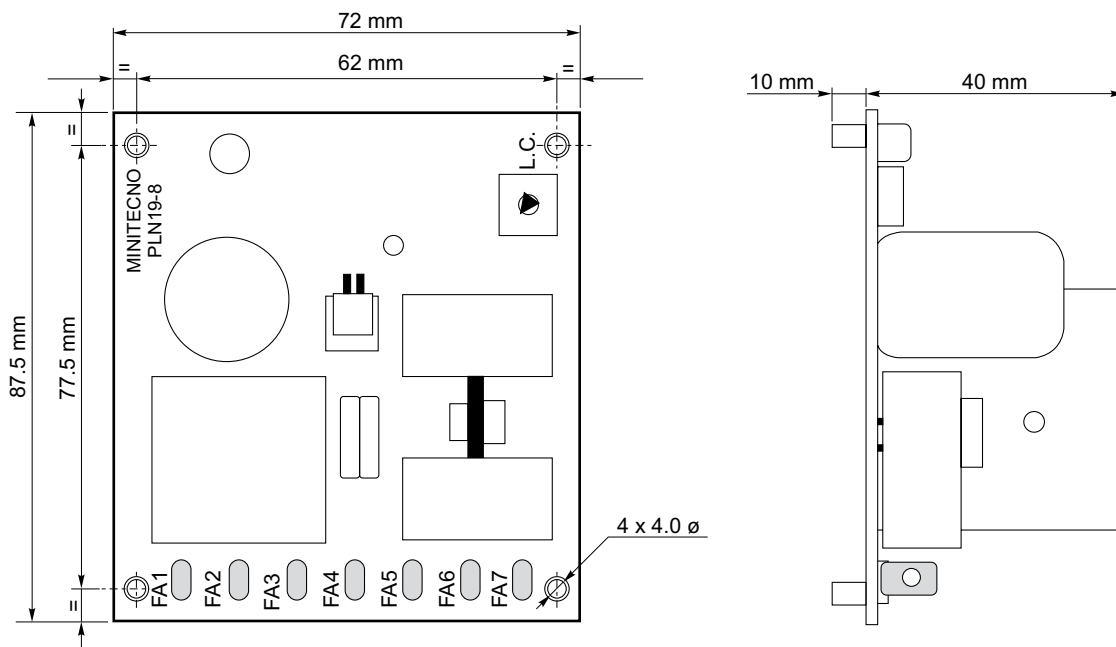
Caratteristiche tecniche

Technical features

- Alimentazione ai terminali FA1 e FA2:
12 - 24 Vca oppure 15 - 35 Vcc.
- Regolazione della velocità mediante potenziometro 10-15 KΩ.
- Trimmer di Limitazione della corrente, per adattare la scheda anche a motori di piccole potenze. Per limitare l'erogazione di corrente, ruotare in senso orario il trimmer.
- Uscita motore ai terminali FA3 e FA4, regolabile da 0 a Vcc MAX che è proporzionale alla tensione di ingresso. Con 35 Vcc di alimentazione, l'uscita MAX è circa 30 Vcc.
- Corrente di uscita (*): Massima corrente ammessa: 8 A in ambiente ventilato, servizio continuo.
- Peso: 0.120 Kg.
- Line voltage at terminals FA1 and FA2:
12 – 24 Vac or 15 – 35 Vdc.
- The speed of the drive is to be controlled by potentiometer, 10-15 KΩ.
- Current Limit trimmer, in order to suit the board for small motors. In order to limit the current, turn clock wise the trimmer.
- Output voltage from terminals FA3 and FA4, from 0 up to Vdc MAX which is proportional to the input voltage. With 35 Vdc input voltage, the max output voltage is about 30 Vdc.
- Output current (*): Maximum output current allowed: 8 A in a ventilated environment, continuous duty.
- Weight: 0.120 Kg.

Dimensioni

Dimensions



Opzioni

Options

1. Potenzimetro 10 kΩ
2. Supporto per montaggio su guida DIN

1. Speed potentiometer 10 kΩ
2. DIN mounting support

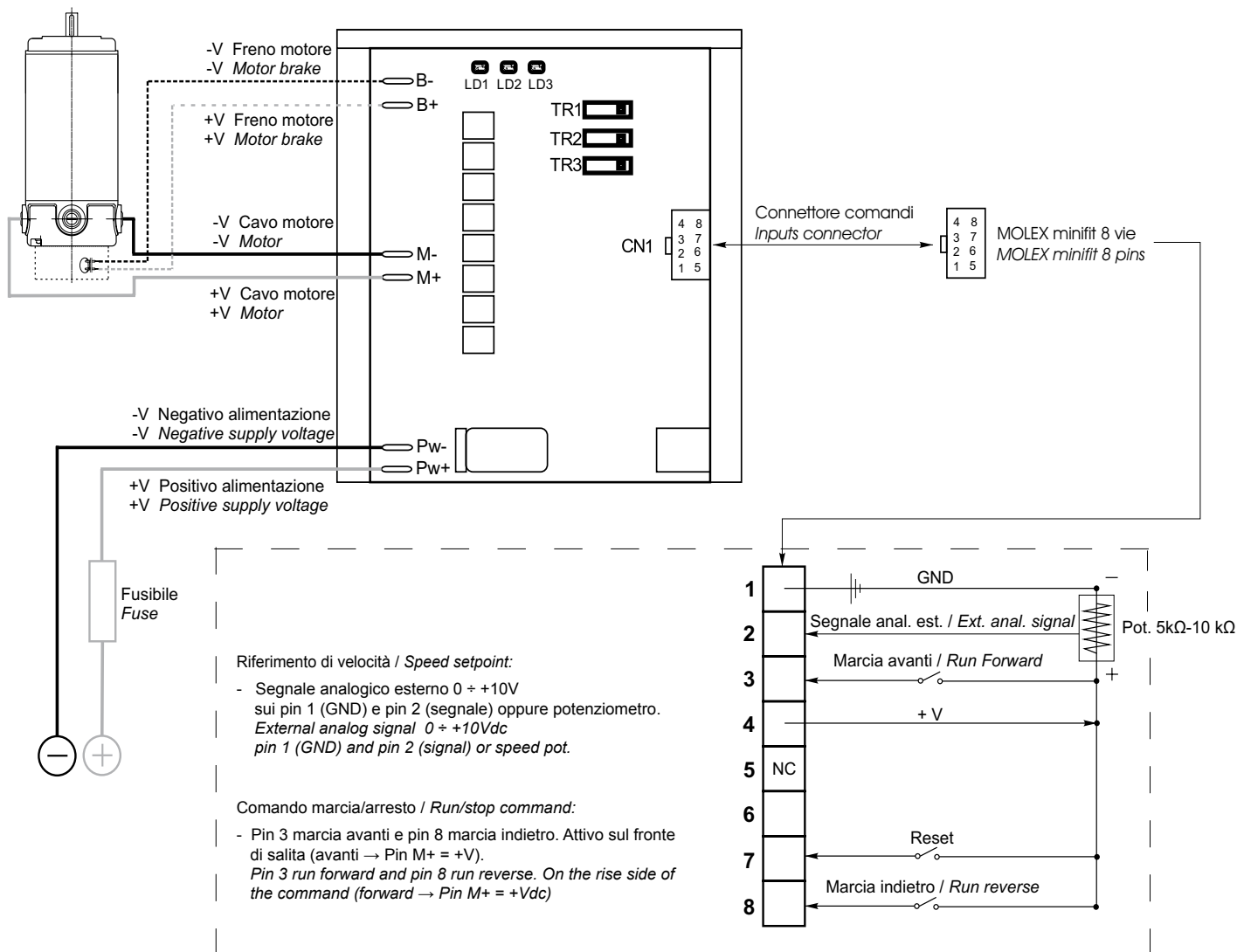
(*) il valore massimo di corrente motore deve essere utilizzato in **ambiente ventilato**. In ambienti non ventilati e per temperatura ambiente di 45 °C, ridurre la corrente motore massima a 4 A; servizio continuo.

(*) the maximum output current value must be used in a **ventilated environment**. Derate the maximum output current down to 4 A if the environment is not ventilated and the temperature is about 45 °C; continuous duty.

AZIONAMENTO BIDIREZIONALE PWM PER LA REGOLAZIONE DI VELOCITA' DEI MOTORI A CORRENTE CONTINUA A BASSA TENSIONE

LOW VOLTAGE BIDIRECTIONAL PWM DC MOTORS CONTROL

SCHEMA DEI COLLEGAMENTI - MAIN CONNECTION DIAGRAM



Fusibile:

150-200% della corrente motore. Max 3 volte la corrente nominale della scheda, con intervento entro pochi secondi.

Fuse:

150-200 % rated motor current. Max 3 times rated current of the drive (trip time in few seconds).

Trimmer multigiro:

TR1: Accelerazione: selezione da 0.5 a 10 sec.

TR2: Limite di corrente: riduce il limite di corrente nominale da 100% a circa 30% (corrente di picco 3 volte la corrente selezionata).

TR3: Decelerazione: selezione da 0.5 a 10 sec.

Multiturn trimmers:

TR1: Acceleration time: from 0.5 to 10 sec.

TR2: Current limitation: rated current limited from 100% to about 30% (peak current 3 times the selected limited current).

TR3: Deceleration time: from 0.5 to 10 sec.

LED:

LD1: Visualizza lo stato di funzionamento con limite di corrente attivo (il motore assorbe più della corrente selezionata e l'azionamento opera in limitazione).

LD2: Stato dell'azionamento: lampeggio veloce e continuo = funzionamento normale, lampeggio lento e codificato = presenza di un allarme

LD3: Segnalazione presenza alimentazione.

LED:

LD1: ON when the drive runs under current limitation (motor requires more than the rated current and drive supplies only limited current).

LD2: Status: quick continuous flash = drive ok, slow coded flash = fault).

LD3: Power ON

Caratteristiche tecniche

Technical features

- Scheda bidirezionale a transistor a ricircolo di corrente.
 - Selezionabili i seguenti parametri (mediante trimmer):
 - rampa di accelerazione: 0.5 - 10 sec
 - rampa di decelerazione: 0.5 - 10 sec
 - limite corrente 100%-30% circa
 - Temperatura di lavoro: 0°C / +40°C (allarme sotto zero)
 - Diagnostica tramite LED
 - Frequenza di commutazione: 16kHz
 - Dotata di coperchio
 - Velocità regolabile con potenziometro 5-10 kΩ o con segnale 0-10 Vcc
 - Limitazione della corrente regolabile
 - Sensore termico di protezione
- Transistor bidirectional drive with regenerative current system.
 - Following settings can be adjusted (by built in trimmers):
 - acceleration ramp: 0.5 - 10 sec
 - deceleration ramp: 0.5 - 10 sec
 - current limit 100% - about 30%
 - Room temperature: 0°C / +40°C (alarm below zero)
 - LED for system diagnosis
 - Switching frequency: 16kHz
 - Covered
 - 5-10 kΩ Speed pot. or 0-10 Vdc external signal for speed re-gulation
 - Variable current limit
 - Thermal sensor for protection

Modello Model number	Tensione di alimentazione DC input voltage [Vdc]	Tensione di uscita Motor voltage [Vdc]*	Corrente di uscita nominale DC load current [A]	Corrente di picco motore Maximum load current [A]**	Campo di alimentazione Power supply range [Vdc]
PLN20	12 ÷ 24	0 ÷ Vin	20	60 (4 sec)	10 ÷ 30
PLN40	12 ÷ 24	0 ÷ Vin	40	120 (4 sec)	10 ÷ 30

* L'azionamento riduce la tensione nominale di 1-2 Vcc. Il fenomeno è normale e fisiologico. Se serve ottenere 24 ÷ 12 Vcc in uscita sotto ogni condizione di carico, si suggerisce di sovralimentare di un paio di volt.

** Un timer impone il limite con un andamento temporale iperbolico, cioè quanta più corrente eroga e tanto meno è il tempo per il quale ciò è ammesso, prima che appunto la scheda vada in limitazione. Alla corrente di picco (x 3 volte quella nominale) la scheda funziona per pochi secondi.

* The drive reduces the rated voltage of 1-2 Vdc. This is normal and physiological. If 24 ÷ 12 VDC output is required under all load conditions, it is advisable to supercharge a couple of volts.

** A timer imposes a limit with a temporary hyperbolic performance, which means the more current is requested, the less time is permitted with this current before the drive is limited. When the current reaches its peak (3 times the rated value) the drive will work for a few seconds.

Dotazioni

Equipment

	PLN20 PLN40
Trimmer di selezione ACCEL, DECEL e LIMITE di CORRENTE / Selection Trimmer ACCEL, DECEL, CURRENT LIMIT	■
2 contatti: marcia avanti e marcia indietro / 2 contacts : forward and reverse	■
Riferimento di velocità / Speed setpoint reference	■
3 LEDs di segnalazione / 3 LEDs signals	■
Segnale di comando di eventuale freno negativo di stazionamento / Command signal for possible negative electromagnetic brake	■
Predisposizione per montaggio a libro e a zoccolo / Arranged for 2 different ways of mounting	■
Memorizzazione e segnalazione degli allarmi / Memory storage and report of alarm	■
2 ingressi digitali ausiliari / 2 auxiliary digital inputs	■#

uno impegnato dal reset / one comitted by reset



Manuale



User manual

Per approfondimenti si raccomanda di scaricare il manuale d'uso dal nostro sito **www.transtecno.com** alla pagina dei prodotti.

Please, download the user manual for more information from our web site **www.transtecno.com** from the product page.

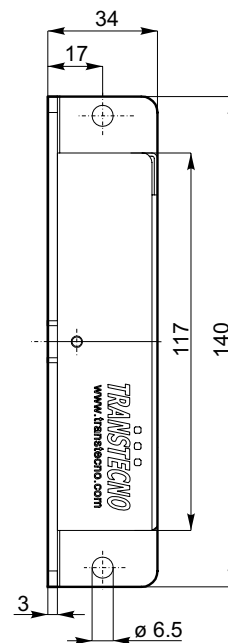
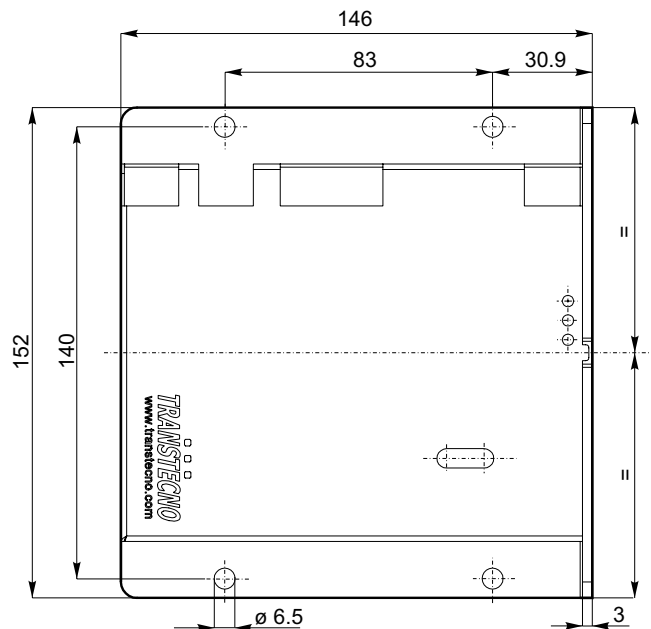
AZIONAMENTO BIDIREZIONALE PWM PER LA
REGOLAZIONE DI VELOCITA' DEI MOTORI A
CORRENTE CONTINUA A BASSA TENSIONE

LOW VOLTAGE BIDIRECTIONAL
PWM DC MOTORS CONTROL

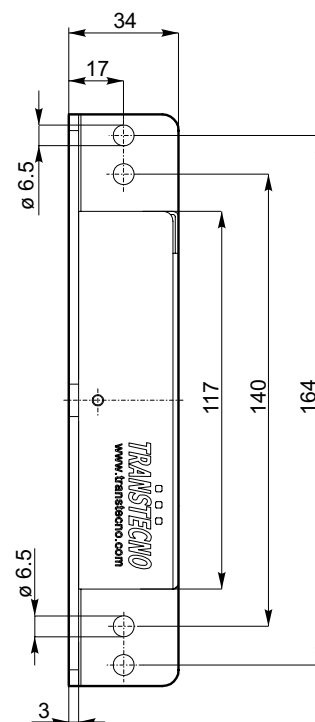
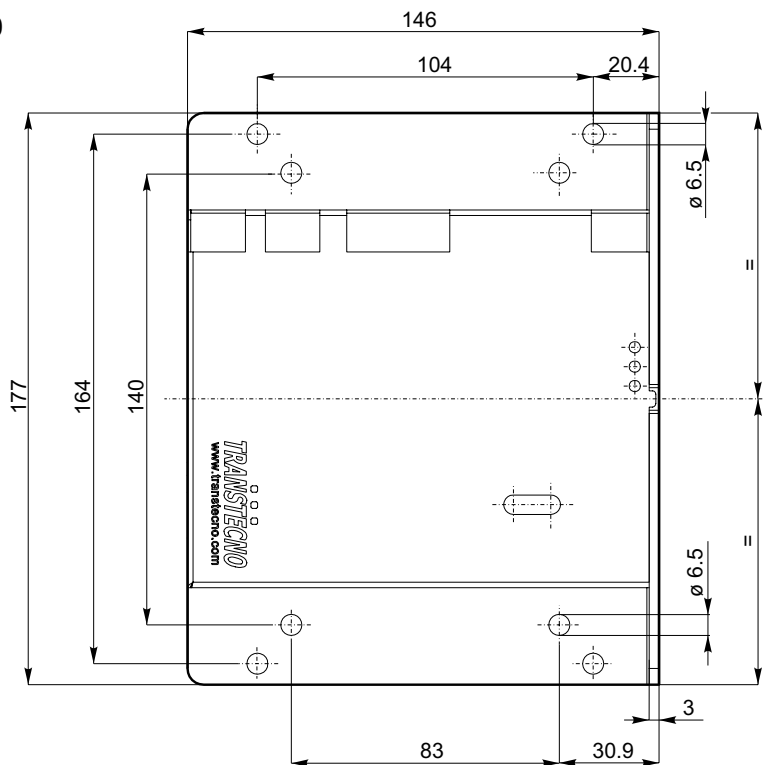
Dimensioni

Dimensions

PLN20



PLN40



GUIDA alla selezione dell'azionamento
Drive selection GUIDE

**Corrente di uso
del motore** ≤ **Corrente nominale
dell'azionamento**

**Real motor
current** ≤ **Rated current
of the drive**

Attenzione: la reale corrente assorbita dal motore può essere diversa da quella indicata in targhetta.

PLN19-8 = max 6 A

PLN20 = max 22 A

PLN40 = max 44 A

Vedere sotto la tabella per esemplificazioni

Warning: the real absorbed current by the motor can be different from the one written on the nameplate.

PLN19-8 = max 6 A

PLN20 = max 22 A

PLN40 = max 44 A

See the table below for quick reference

Codice motore <i>Motor code</i>	Corrente motore <i>Motor current</i> S1	Scheda-Drive (servizio motore-motor duty) S1	Corrente motore <i>Motor current</i> S2	Scheda-Drive (servizio motore-motor duty) S2
EC020.120	3.2	PLN19-8 – PLN20	4	PLN19-8 – PLN20
EC020.240	1.5	PLN19-8 – PLN20	2	PLN19-8 - PLN20
EC035.120	5.2	PLN19-8 – PLN20	8	PLN20
EC035.240	2.6	PLN19-8 - PLN20	4	PLN19-8 - PLN20
EC050.120	6.8	PLN20	9.4	PLN20
EC050.240	3.4	PLN19-8 - PLN20	4.7	PLN19-8 - PLN20
EC070.120	8.4	PLN20	11.8	PLN20
EC070.240	4.2	PLN19-8 - PLN20	5.9	PLN19-8 - PLN20
EC100.120	12	PLN20	16.8	PLN20
EC100.240	6	PLN19-8 - PLN20	8.4	PLN20
EC100.24E	6	PLN19-8 - PLN20	8.4	PLN20
ND100.120	13.9	PLN20	19	PLN20
ND100.240	6.9	PLN20	9.0	PLN20
EC180.120	21.5	PLN20	30	PLN40
EC180.240	10.8	PLN20	15	PLN20
EC180.24E	10.8	PLN20	15	PLN20
ND180.120	20	PLN20	30	PLN40
ND180.240	10	PLN20	14	PLN20
EC250.120	30	PLN40	39	PLN40
EC250.240	15	PLN20	19.5	PLN20
EC350.120	42	PLN40	58.8	----
EC350.120BR				
EC350.240	21	PLN20	29.4	PLN40
EC350.240BR				
EC600.240	35.5	PLN40	47	PLN40
EC600.240BR				

HEADQUARTERS

 **TRANSTECNO SRL**
Via Caduti di Sabbiuno, 11 D/E
40011 Anzola Emilia (BO) - ITALY
Tel. +39.051.6425811
Fax +39.051.734943
info@transtecno.com
www.transtecno.com

MANUFACTURING PLANT

 **HANGZHOU TRANSTECNO POWER TRANSMISSIONS CO; LTD**
Changlian Road, Fengdu industry zone,
Pingyao town Yuhang area,
Hangzhou, 311115 - CHINA
Tel. +86.571.86920260
Fax. +86.571.86921810
info-china@transtecno.com
www.transtecno.cn

SALES OFFICES & WAREHOUSES

 **GEARTECNO ITALIA SRL**
Via Ferrari, 27/11
41043 Fraz. Corlo,
Formigine (MO) - ITALY
Tel. +39.059.557522
Fax +39.059.557439
info@geartecno.com
www.geartecno.com

 **TRANSTECNO B.V.**
De Stuwdam 43
ind. terrein Wieken/Vinkenhoef
3815 KM Amersfoort
THE NETHERLANDS
Tel. +31.(0)33.4519505
Fax +31.(0)33.4519506
info@transtecno.nl
www.transtecno.nl


TRANSTECNO®
THE MODULAR GEARMOTOR
www.transtecno.com

SALES OFFICES

 **SALES OFFICE BRAZIL**
Rua Dr. Freire Alemão 155 / 402
CEP. 90450-060
Auxiliadora Porto Alegre-RS-BRAZIL
Tel. +55.51.3251.5447
Fax +55.51.3251.5447
Mobile +55 51 811 45 962
braziloffice@transtecno.com
www.transtecno.com.br

 **SALES OFFICE FRANCE**
12 Impasse des Mûriers
38300 Ruy - FRANCE
Tel. +33 (0) 6 85 12 09 87
Fax – Italy +39 051 733904
franceoffice@transtecno.com
www.transtecno.fr

 **SALES OFFICE SOUTH KOREA**
D-304 Songdo BRC
Smart Valley 30,
Songdomirae-ro, Yeonsu-gu,
Incheon, 406-840, KOREA
Tel: +82 (0) 70 8288 2107
Fax. +82-32-815-2107
Mobile: +82 10 5094 2107
koreaoffice@transtecno.com
www.transtecno.co.kr

 **SALES OFFICE INDIA**
A/10, Anagha,
S.N Road, Mulund (W),
Mumbai, 400080
INDIA
Fax – Italy +39 051 733904
Mobile: +91 9820614698
indiaoffice@transtecno.com

 **SALES OFFICE OCEANIA**
Unit 11, 5-27 Wallace Ave
Point Cook 3030
Victoria - AUSTRALIA
Tel. +61.03.9369.9774
Fax +61.03.9369.9775
Mobile +61.0438.060.997
oceaniaoffice@transtecno.com
www.transtecno.com.au

 **SALES OFFICE EASTERN EUROPE & MIDDLE EAST**
St. Magnolienweg 4
D-31860 Emmerthal - GERMANY
Tel. +49.5151.963076
Fax +49.5151.963076
Mobile +49.172.4044907
emeoffice@transtecno.com

 **SALES OFFICE GUANGZHOU**
Room 401A, LeTian Building,
No.188 TangAn Road,
Tianhe District, Guangzhou City,
510665 - CHINA
Tel: + 86 20 38776057
Fax: + 86 20 38776127
guangzhouoffice@transtecno.com