MINI TECNO

small but strong

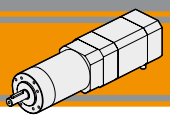
BLP

Motoriduttori brushless CC epicicloidali
Brushless DC planetary gearmotors



MINI TECNO brand of TRANSTECNO®

BLDC



ENERGY SAVING

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Caratteristiche tecniche

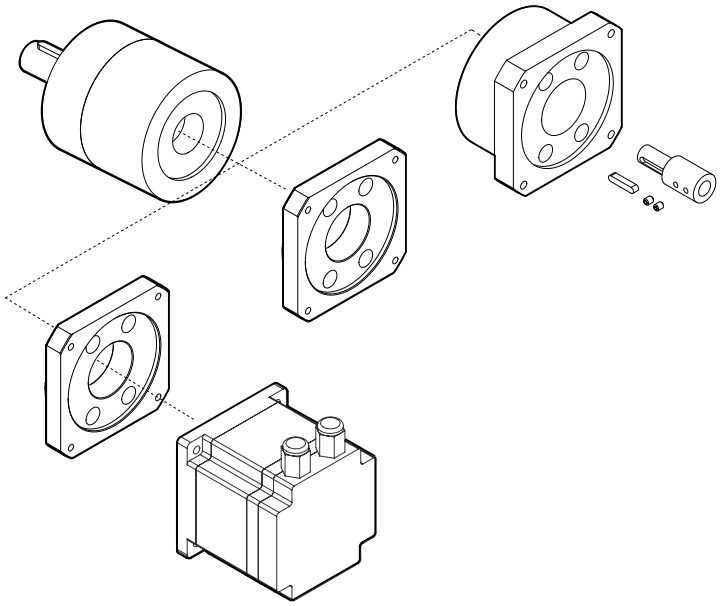
Technical features

Le caratteristiche principali dei motoriduttori brushless CC epicicloidali della serie BLP sono:

- Alimentazione in bassa tensione 24/36/48 Vcc
- Motore Brushless CC con grado di protezione IP55
- Coppie motori disponibili da 0.22 Nm a 1.4 Nm
- Lubrificazione permanente a grasso
- Completamente in metallo
- Doppio cuscinetto su albero di uscita
- Disponibili anche nella versione con solo riduttore, sia con flangia di entrata standard che con flangia e manicotto dedicati

The main features of brushless DC planetary gearmotors BLP range are:

- *Low voltage power supply 24/36/48 Vdc*
- *Brushless DC motor in IP55 protection Standard*
- *Motor torque ratings available from 0.22 Nm up to 1.4 Nm*
- *Permanent grease long life lubrication*
- *Completely made out of metal*
- *Double ball bearing on output shaft*
- *Gearbox only version also available, with either standard input flange or customized flange and coupling*



ENERGY SAVING

Designazione

Classification

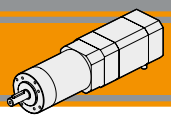
RIDUTTORE / *GEARBOX*			
P	**52**	**2**	**46**
Tipo *Type*	Grandezza *Size*	Stadi riduttore *Gearbox stages*	Rapporto in *Ratio in*
P	**52** **62**	**1** **2** **3**	Vedere tabelle *See tables*

MOTORE / *MOTOR*	
BL070.480	**48V**
Tipo *Type*	Tensione *Voltage*
BLS022.240	**24V-36V**
BLS043.240	**24V-36V**
BL070.480	**48V**
BL140.480	**48V**

Simbologia

Symbols

Ns		n° stadi / *No. stages*
ir		rapporto reale / *real ratio*
M_2	[Nm]	coppia in uscita *output torque*
Rd		rendimento dinamico / *efficiency*
A_2	[N]	Carico assiale ammissibile in uscita Permitted output *axial load*
R_2	[N]	Carico radiale ammissibile in uscita *Permitted output radial load*
Pn_1	[kW]	Potenza nominale in entrata *Nominal input power*
Mn_2	[Nm]	Coppia nominale in uscita in funzione di Pn1 *Nominal output torque referred to Pn1*
V	[V]	*Tensione / Voltage*
n_{1MAX}	[Rpm]	Velocità max entrata / *Max input speed*
n_2	[Rpm]	Velocità in uscita / *Output Speed*
IP		Grado di protezione / *Enclosure protection*
Kg		Peso / *Weight*
sf		Fattore di servizio / *Service Factor*

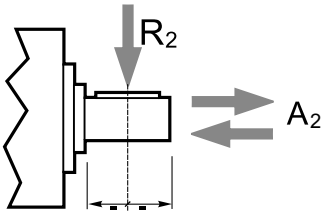


Lubrificazione e temperatura / *Lubrication and temperature*

I motoriduttori epicicloidali BLP sono lubrificati in modo permanente, non richiedono quindi ulteriore manutenzione.
Questo gli consente di essere installati praticamente ovunque.
Temperatura ambiente 0 ÷ 40 °C (in assenza di congelamento ed in assenza di condensa).
Per temperature diverse, contattare nostro UT.

Planetary BLP gearmotors are life-time lubricated with grease, therefore they are maintenance free.
They can be installed in any location.
Ambient temperature 0 ÷ 40 °C (in the absence of freezing and condensation).
For temperature outside this range please contact our technical dept.

Carichi radiali / *Radial loads*



Ns	Carichi Radiali R_2 [N] / *Radial Load R_2 [N]*	
	P52	P62
1	200	240
2	320	360
3	450	520

Ns	Carichi Assiali A_2 [N] / *Axial Load A_2 [N]*	
	P52	P62
1	60	70
2	100	100
3	150	150

Rapporti / *Ratios*

P 52 / 62				P 52	P62
Ns	in	ir	Rd	kg	kg
1	**4**	**3.7**	0.8	0.7	0.8
	4	4.28			
	5	5.18			
	7	**6.75**			
2	**14**	**13.73**	0.75	0.9	1.2
	16	15.88			
	18	18.36			
	19	19.2			
	22	22.2			
	25	**25.01**			
	27	26.85			
	29	28.93			
	35	34.97			
	46	**45.56**			
3	51	50.89	0.7	1.1	1.6
	59	58.85			
	68	**68.06**			
	71	71.16			
	79	78.71			
	93	**92.7**			
	95	95.17			
	100	99.5			
	107	107.2			
	115	115.07			
	124	123.97			
	130	129.62			
	139	139.13			
	150	149.9			
	169	**168.84**			
	181	181.24			
	195	195.26			
	236	236.09			
	308	**307.54**			
4	a richiesta	*on request*			

Rapporti preferenziali
Preferred ratios

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

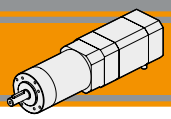
P52 con motore brushless

P52 with brushless motor

P52			BLS022.240													
			24V							36V						
Ns	ir	in	n_{2MIN} [rpm]			n_{2MAX} [rpm]			n_{1MAX} [rpm]	n_{2MIN} [rpm]			n_{2MAX} [rpm]			n_{1MAX} [rpm]
				M_2 [Nm]	sf		M_2 [Nm]	sf			M_2 [Nm]	sf		M_2 [Nm]	sf	
1	**3.7**	**4**	81	0.7	9.0	811	0.7	6.1		108	0.7	9.0	1081	0.7	5.4	
	4.28	4	70	0.8	7.8	701	0.8	5.3		93	0.8	7.8	935	0.8	4.7	
	5.18	5	58	0.9	6.4	579	0.9	4.4		77	0.9	6.4	772	0.9	3.9	
	6.75	**7**	44	1.2	4.9	444	1.2	3.3		59	1.2	4.9	593	1.2	3.0	
2	**13.73**	**14**	22	2.3	7.6	218	2.3	5.2		29	2.3	7.6	291	2.3	4.6	
	15.88	16	19	2.6	6.6	189	2.6	4.5		25	2.6	6.6	252	2.6	4.0	
	18.36	18	16	3.0	5.7	163	3.0	3.9		22	3.0	5.7	218	3.0	3.4	
	19.2	19	16	3.2	5.4	156	3.2	3.7		21	3.2	5.4	208	3.2	3.3	
	22.2	22	14	3.7	4.7	135	3.7	3.2		18	3.7	4.7	180	3.7	2.8	
	25.01	**25**	12	4.1	4.2	120	4.1	2.8		16	4.1	4.2	160	4.1	2.5	
	26.9	27	11	4.4	3.9	112	4.4	2.6		15	4.4	3.9	149	4.4	2.3	
	28.9	29	10	4.8	3.6	104	4.8	2.5		14	4.8	3.6	138	4.8	2.2	
	35.0	35	8.6	5.8	3.0	86	5.8	2.0		11	5.8	3.0	114	5.8	1.8	
	45.6	**46**	6.6	7.5	2.3	66	7.5	1.6		8.8	7.5	2.3	88	7.5	1.4	
3	50.9	51	5.9	8	4.7	59	7.8	3.2		7.9	8	4.7	79	7.8	2.8	
	58.9	59	5.1	9	4.1	51	9.1	2.8		6.8	9	4.1	68	9.1	2.4	
	68.1	**68**	4.4	10	3.5	44	10	2.4	3000	5.9	10	3.5	59	10	2.1	4000
	71.2	71	4.2	11	3.4	42	11	2.3		5.6	11	3.4	56	11	2.0	
	78.7	79	3.8	12	3.0	38	12	2.1		5.1	12	3.0	51	12	1.8	
	92.7	**93**	3.2	14	2.6	32	14	1.7		4.3	14	2.6	43	14	1.5	
	95.2	95	3.2	15	2.5	32	15	1.7		4.2	15	2.5	42	15	1.5	
	99.5	100	3.0	15	2.4	30	15	1.6		4.0	15	2.4	40	15	1.4	
	107.2	107	2.8	17	2.2	28	17	1.5		3.7	17	2.2	37	17	1.3	
	115.07	115	2.6	18	2.1	26	18	1.4		3.5	18	2.1	35	18	1.2	
	123.97	124	2.4	19	1.9	24	19	1.3		3.2	19	1.9	32	19	1.2	
	129.62	130	2.3	20	1.8	23	20	1.3		3.1	20	1.8	31	20	1.1	
	139.13	139	2.2	21	1.7	22	21	1.2		2.9	21	1.7	29	21	1.0	
	149.9	150	2.0	23	1.6	20	23	1.1		2.7	23	1.6	27	23	1.0	
	168.84	**169**	1.8	26	1.4	18	26	1.0		2.4	26	1.4	24	26	0.8	
	181.24	181	1.7	28	1.3	17	28	0.9		2.2	28	1.3	22	28	0.8	
	195.26	195	1.5	30	1.2	15	30	0.8		2.0	30	1.2	20	30	0.7	
	236.09	236	1.3	36	1.0	13	36	0.7		1.7	36	1.0	17	31	0.7	
	307.54	**308**	1.0	47	0.8	9.8	36	0.7		1.3	47	0.8	13	31	0.7	

Rapporti preferenziali
Preferred ratios

Attenzione: superamento della coppia nominale supportata dal riduttore per servizio S1.
Contattare il ns. servizio tecnico
Attention: rated torque withstood by gear reducer for service in S1 is exceeded.
Please, contact our technical office.



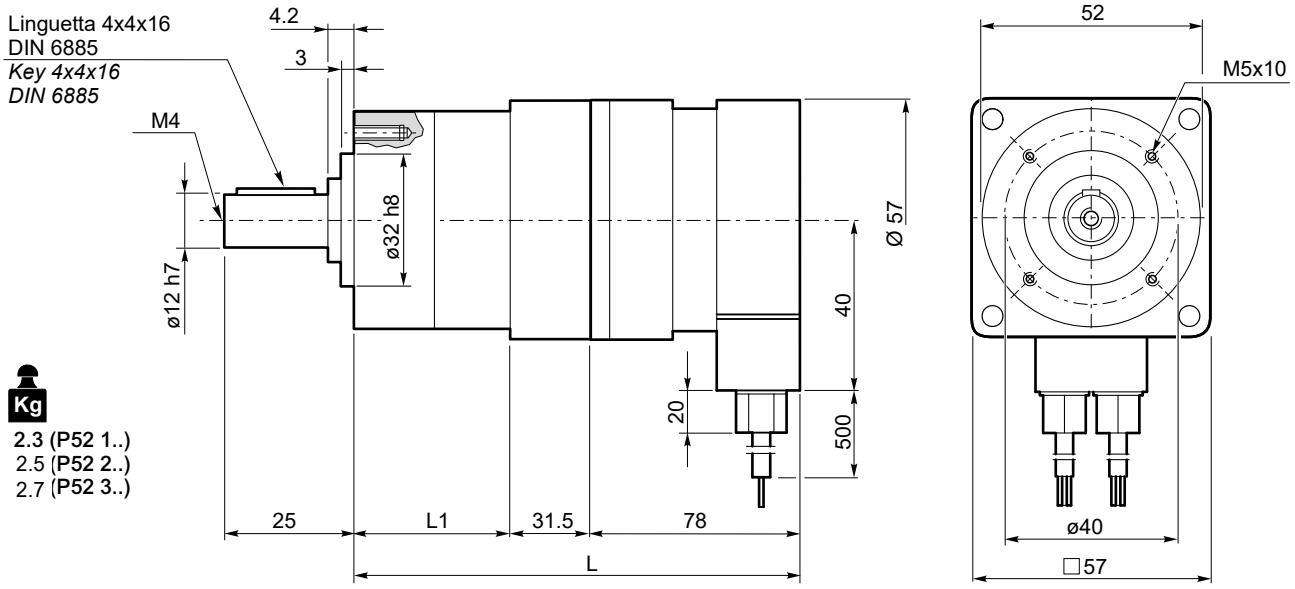
P52 con motore brushless — *P52 with brushless motor*

Tipo *Type*	Numero di poli *Number of poles*	Numero di fasi *Number of phase*	Tensione *Rated voltage [V]*	Numero di giri *Rated speed* [rpm]	Coppia nominale *Rated torque* [Nm]	Potenza nominale *Rated power* [W]
BLS022.240	4	3	36	4000	0.22	92
			24	3000		70

Tipo *Type*	Coppia massima *Peak torque* [Nm]	Corrente nominale *Rated current* [A]	Resistenza *Resistance* [ohm]	Induttanza *Inductance* [mH]	Corrente massima *Peak current* [A]	Peso *Weight* [kg]
BLS022.240	0.44	3.7	0.64	3.1	7.4	0.72

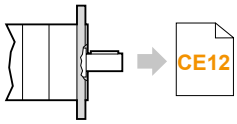
Azionamenti *Drives* → CF2

P52..
+
BLS022.240



Kg
2.3 (P52 1..)
2.5 (P52 2..)
2.7 (P52 3..)

	Ns	L1	BLS022.240 L
P52	1	46	155.5
	2	60	169.5
	3	74	183.5



CE12

P52.. AS...

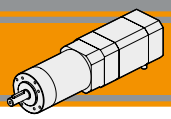
P52 con motore brushless

P52 with brushless motor

P52			BLS043.240													
			24V							36V						
Ns	ir	in	n_{2MIN} [rpm]			n_{2MAX} [rpm]			n_{1MAX} [rpm]	n_{2MIN} [rpm]			n_{2MAX} [rpm]			n_{1MAX} [rpm]
				M_2 [Nm]	sf		M_2 [Nm]	sf			M_2 [Nm]	sf		M_2 [Nm]	sf	
1	**3.7**	**4**	81	1.3	4.6	811	1.3	3.1		108	1.3	4.6	1081	1.3	2.8	
	4.28	4	70	1.5	4.0	701	1.5	2.7		93	1.5	4.0	935	1.5	2.4	
	5.18	5	58	1.8	3.3	579	1.8	2.2		77	1.8	3.3	772	1.8	2.0	
	6.75	**7**	44	2.3	2.5	444	2.3	1.7		59	2.3	2.5	593	2.3	1.5	
2	**13.73**	**14**	22	4.4	3.9	218	4.4	2.6		29	4.4	3.9	291	4.4	2.3	
	15.88	16	19	5.1	3.4	189	5.1	2.3		25	5.1	3.4	252	5.1	2.0	
	18.36	18	16	5.9	2.9	163	5.9	2.0		22	5.9	2.9	218	5.9	1.7	
	19.2	19	16	6.2	2.8	156	6.2	1.9		21	6.2	2.8	208	6.2	1.7	
	22.2	22	14	7.2	2.4	135	7.2	1.6		18	7.2	2.4	180	7.2	1.4	
	25.01	**25**	12	8.1	2.1	120	8.1	1.5		16	8.1	2.1	160	8.1	1.3	
	26.9	27	11	8.7	2.0	112	8.7	1.4		15	8.7	2.0	149	8.7	1.2	
	28.9	29	10	9.3	1.8	104	9.3	1.3		14	9.3	1.8	138	9.3	1.1	
	35.0	35	8.6	11	1.5	86	11.3	1.0		11	11	1.5	114	11	0.9	
	45.6	**46**	6.6	15	1.2	66	14.7	0.8		8.8	15	1.2	88	15	0.7	
3	50.9	51	5.9	15	2.4	59	15.3	1.6		7.9	15	2.4	79	15	1.4	
	58.9	59	5.1	18	2.1	51	17.7	1.4		6.8	18	2.1	68	18	1.2	
	68.1	**68**	4.4	20	1.8	44	20	1.2	3000	5.9	20	1.8	59	20	1.1	4000
	71.2	71	4.2	21	1.7	42	21	1.2		5.6	21	1.7	56	21	1.0	
	78.7	79	3.8	24	1.6	38	24	1.1		5.1	24	1.6	51	24	0.9	
	92.7	**93**	3.2	28	1.3	32	28	0.9		4.3	28	1.3	43	28	0.8	
	95.2	95	3.2	29	1.3	32	29	0.9		4.2	29	1.3	42	29	0.8	
	99.5	100	3.0	30	1.2	30	30	0.8		4.0	30	1.2	40	30	0.7	
	107.2	107	2.8	32	1.1	28	32	0.8		3.7	32	1.1	37	31	0.7	
	115.07	115	2.6	35	1.1	26	35	0.7		3.5	35	1.1	35	31	0.7	
	123.97	124	2.4	37	1.0	24	36	0.7		3.2	37	1.0	32	31	0.7	
	129.62	130	2.3	39	0.9	23	36	0.7		3.1	39	0.9	31	31	0.7	
	139.13	139	2.2	42	0.9	22	36	0.7		2.9	42	0.9	29	31	0.7	
	149.9	150	2.0	45	0.8	20	36	0.7		2.7	45	0.8	27	31	0.7	
	168.84	**169**	1.8	51	0.7	18	36	0.7		2.4	51	0.7	24	31	0.7	
	181.24	181	1.7	53	0.7	17	36	0.7		2.2	53	0.7	22	31	0.7	
	195.26	195	1.5	53	0.7	15	36	0.7		2.0	53	0.7	20	31	0.7	
	236.09	236	1.3	53	0.7	13	36	0.7		1.7	53	0.7	17	31	0.7	
	307.54	**308**	1.0	53	0.7	9.8	36	0.7		1.3	53	0.7	13	31	0.7	

Rapporti preferenziali
Preferred ratios

Attenzione: superamento della coppia nominale supportata dal riduttore per servizio S1.
Contattare il ns. servizio tecnico
Attention: rated torque withstood by gear reducer for service in S1 is exceeded.
Please, contact our technical office.

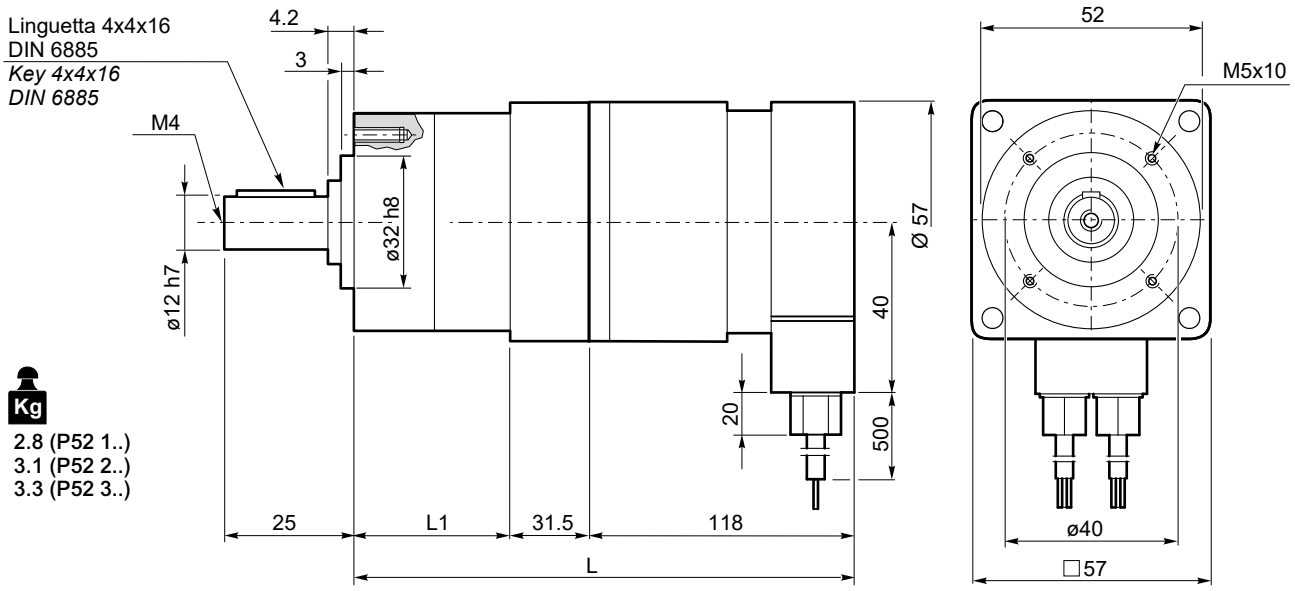


P52 con motore brushless — *P52 with brushless motor*

Tipo *Type*	Numero di poli *Number of poles*	Numero di fasi *Number of phase*	Tensione *Rated voltage [V]*	Numero di giri *Rated speed* [rpm]	Coppia nominale *Rated torque* [Nm]	Potenza nominale *Rated power* [W]
BLS043.240	4	3	36	4000	0.43	180
			24	3000		130
Tipo *Type*	**Coppia massima *Peak torque* [Nm]**	**Corrente nominale *Rated current* [A]**	**Resistenza *Resistance* [ohm]**	**Induttanza *Inductance* [mH]**	**Corrente massima *Peak current* [A]**	**Peso *Weight* [kg]**
BL043.240	0.86	6	0.35	1	12.0	1.25

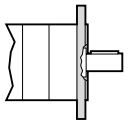
Azionamenti *Drives* → CF2

P52..
+
BLS043.240



Kg
2.8 (P52 1..)
3.1 (P52 2..)
3.3 (P52 3..)

			BLS043.240
	Ns	**L1**	**L**
P52	1	46	195.5
	2	60	209.5
	3	74	223.5



CE12

P52.. AS...

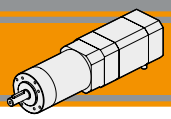
P62 con motore brushless

P62 with brushless motor

P62			BL070.480 48V							BL140.480 48V						
Ns	ir	in	n_{2MIN} [rpm]	M_2 [Nm]	sf	n_{2MAX} [rpm]	M_2 [Nm]	sf	n_{1MAX} [rpm]	n_{2MIN} [rpm]	M_2 [Nm]	sf	n_{2MAX} [rpm]	M_2 [Nm]	sf	n_{1MAX} [rpm]
1	**3.7**	**4**	81	2.1	5.6	811	2.1	3.8		81	4.1	2.8	811	4.1	1.9	
	4.28	4	70	2.4	4.8	701	2.4	3.3		70	4.8	2.4	701	4.8	1.6	
	5.18	5	58	2.9	4.0	579	2.9	2.7		58	5.8	2.0	579	5.8	1.3	
	6.75	**7**	44	3.8	3.0	444	3.8	2.1		44	7.6	1.5	444	7.6	1.0	
2	**13.73**	**14**	22	7.2	5.1	218	7.2	3.5		22	14.4	2.6	218	14.4	1.7	
	15.88	16	19	8.3	4.4	189	8.3	3.0		19	16.7	2.2	189	16.7	1.5	
	18.36	18	16	9.6	3.8	163	9.6	2.6		16	19.3	1.9	163	19.3	1.3	
	19.2	19	16	10	3.7	156	10	2.5		16	20	1.8	156	20	1.2	
	22.2	22	14	12	3.2	135	12	2.1		14	23	1.6	135	23	1.1	
	25.01	**25**	12	13	2.8	120	13	1.9		12	26	1.4	120	26	1.0	
	26.9	27	11	14	2.6	112	14	1.8		11	28	1.3	112	28	0.9	
	28.9	29	10	15	2.4	104	15	1.6		10	30	1.2	104	30	0.8	
	35.0	35	8.6	18	2.0	86	18	1.4		8.6	37	1.0	86	36	0.7	
	45.6	**46**	6.6	24	1.5	66	24	1.0		6.6	48	0.8	66	36	0.7	
3	50.9	51	5.9	25	3.0	59	25	2.0		5.9	50	1.5	59	50	1.0	
	58.9	59	5.1	29	2.6	51	29	1.7		5.1	58	1.3	51	58	0.9	
	68.1	**68**	4.4	33	2.2	44	33	1.5	3000	4.4	67	1.1	44	67	0.7	3000
	71.2	71	4.2	35	2.1	42	35	1.4		4.2	70	1.1	42	70	0.7	
	78.7	79	3.8	39	1.9	38	39	1.3		3.8	77	1.0	38	71	0.7	
	92.7	**93**	3.2	45	1.6	32	45	1.1		3.2	91	0.8	32	71	0.7	
	95.2	95	3.2	47	1.6	32	47	1.1		3.2	93	0.8	32	71	0.7	
	99.5	100	3.0	49	1.5	30	49	1.0		3.0	98	0.8	30	71	0.7	
	107.2	107	2.8	53	1.4	28	53	1.0		2.8	105	0.7	28	71	0.7	
	115.07	115	2.6	56	1.3	26	56	0.9		2.6	105	0.7	26	71	0.7	
	123.97	124	2.4	61	1.2	24	61	0.8		2.4	105	0.7	24	71	0.7	
	129.62	130	2.3	64	1.2	23	64	0.8		2.3	105	0.7	23	71	0.7	
	139.13	139	2.2	68	1.1	22	68	0.7		2.2	105	0.7	22	71	0.7	
	149.9	150	2.0	73	1.0	20	71	0.7		2.0	105	0.7	20	71	0.7	
	168.84	**169**	1.8	83	0.9	18	71	0.7		1.8	105	0.7	18	71	0.7	
	181.24	181	1.7	89	0.8	17	71	0.7		1.7	105	0.7	17	71	0.7	
	195.26	195	1.5	96	0.8	15	71	0.7		1.5	105	0.7	15	71	0.7	
	236.09	236	1.3	105	0.7	13	71	0.7		1.3	105	0.7	13	71	0.7	
	307.54	**308**	1.0	105	0.7	9.8	71	0.7		1.0	105	0.7	9.8	71	0.7	

Rapporti preferenziali
Preferred ratios

Attenzione: superamento della coppia nominale supportata dal riduttore per servizio S1.
Contattare il ns. servizio tecnico
Attention: rated torque withstood by gear reducer for service in S1 is exceeded.
Please, contact our technical office.

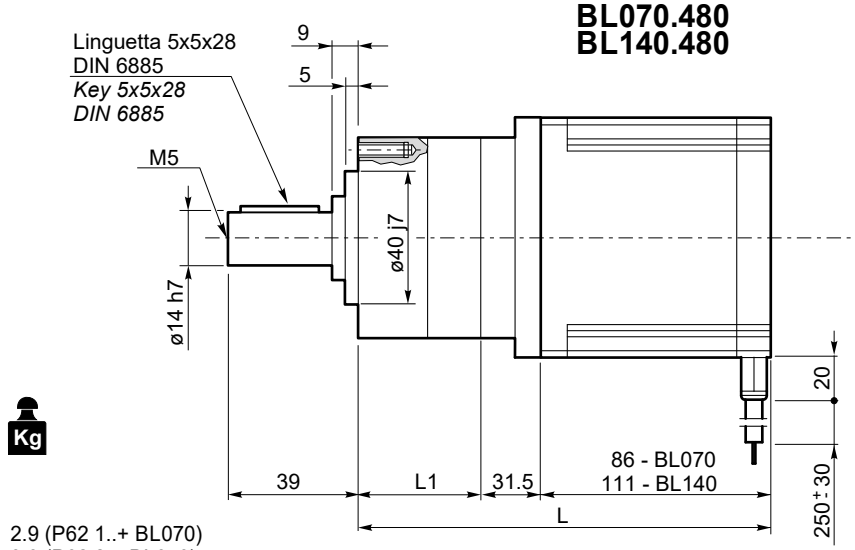


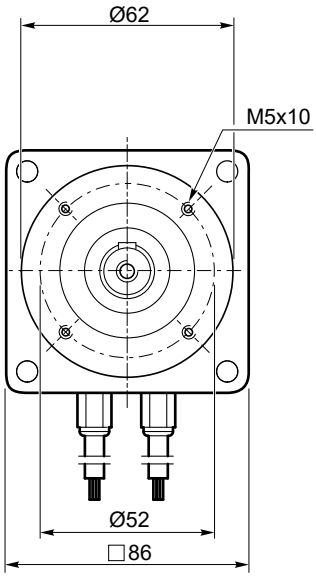
P62 con motore brushless — *P62 with brushless motor*

Tipo *Type*	Numero di poli *Number of poles*	Numero di fasi *Number of phase*	Tensione *Rated voltage [V]*	Numero di giri *Rated speed* [rpm]	Coppia nominale *Rated torque* [Nm]	Potenza nominale *Rated power* [W]
BL070.480	8	3	48	3000	0.70	220
BL140.480	8	3	48	3000	1.4	440
Tipo *Type*	**Coppia massima** *Peak torque* [Nm]	**Corrente nominale** *Rated current* [A]	**Resistenza** *Resistance* [ohm]	**Induttanza** *Inductance* [mH]	**Corrente massima** *Peak current* [A]	**Peso** *Weight* [kg]
BL070.480	1.4	6.5	0.34	1.0	13.0	2.1
BL140.480	2.8	13.0	0.16	0.5	26	3.15

Azionamenti *Drives* → CF5

P62..
+
BL070.480
BL140.480

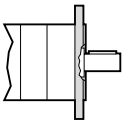




Kg

2.9 (P62 1..+ BL070)
3.3 (P62 2..+BL070)
3.7 (P62 3..+BL070)
3.9 (P62 1..+BL140)
4.3 (P62 2..+BL140)
4.7 (P62 3..+BL140)

	Ns	L1	BL 070.480 L	BL 140.480 L
P62	1	46	163.5	188.5
	2	62	179.5	204.5
	3	78	195.5	220.5



CE12

P62.. AS...

Dati tecnici n_1 = 3000 rpm ***Technical data***

Ns	ir	in	P52			P62		
			R_d	M_{n2} [Nm]	R_2 [N]	R_d	M_{n2} [Nm]	R_2 [N]
1	3.70	4	0.80	4	200	0.80	8	240
	4.28	4						
	5.18	5						
	6.75	7						
2	13.73	14	0.75	12	320	0.75	25	360
	15.88	16						
	18.36	18						
	19.20	19						
	22.20	22						
	25.01	25						
	26.85	27						
	28.93	29						
	34.97	35						
	45.56	46						
3	50.89	51	0.70	25	450	0.70	50	520
	58.85	59						
	68.06	68						
	71.16	71						
	78.71	79						
	92.70	93						
	95.17	95						
	99.50	100						
	107.20	107						
	115.07	115						
	123.97	124						
	129.62	130						
	139.13	139						
	149.90	150						
	168.84	169						
	181.24	181						
	195.26	195						
	236.09	236						
	307.54	308						

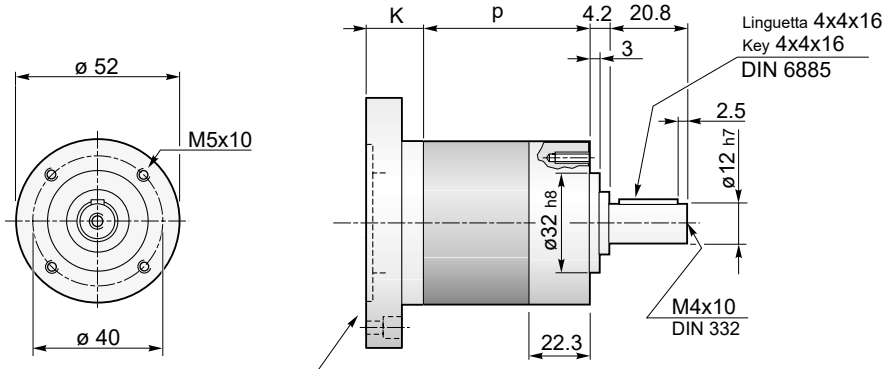
Rapporti preferenziali per le taglie P52 e P62.
Preferred ratios for sizes P52 e P62.

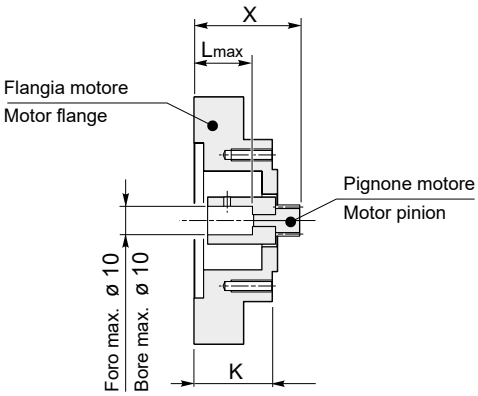
Disponibili 4 stadi con rapporti fino a 2076 / *Available 4 stages with ratio up to 2076*

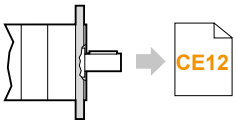
Dimensioni P con flange motore AS

P dimensions with motor flanges AS

P52 - U - AS...



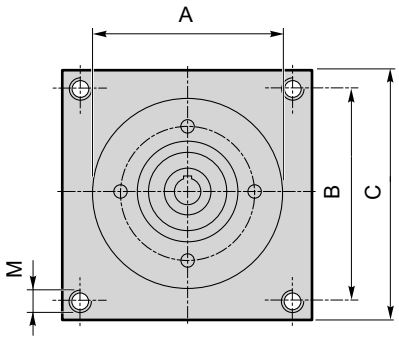




P52.. C...

Lo spessore della flangia è variabile in funzione delle diverse lunghezze dell'albero motore.

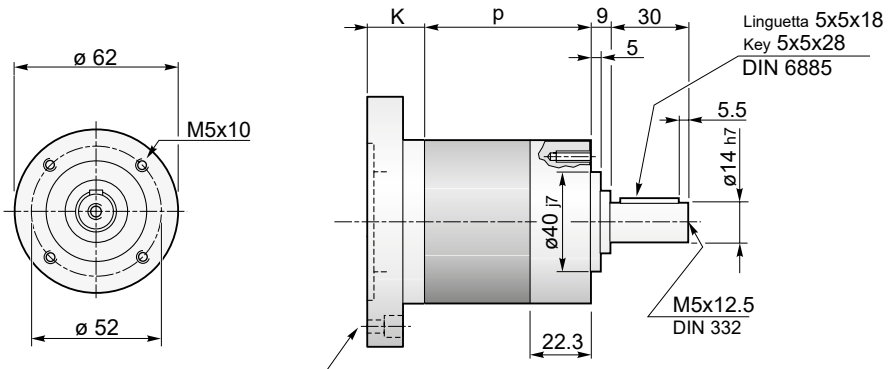
Flange's thickness may vary depending on motorshaft's lenght.

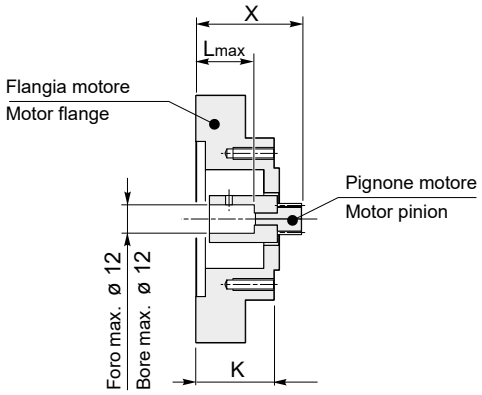


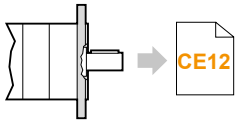
Dimensioni / Dimensions							
AS	**A**	**B**	**C**	**M**	**K**	**L_{max}**	**X**
AS394	38.1	47.1	57	M5	31.5	23	41.5
...	...	...	...	...	...	...	...

		Lunghezza riduttore Gearbox length	**Kg**
		P	
P52...	1	46	0.7
	2	60	0.9
	3	74	1.1

P62 - U - AS...



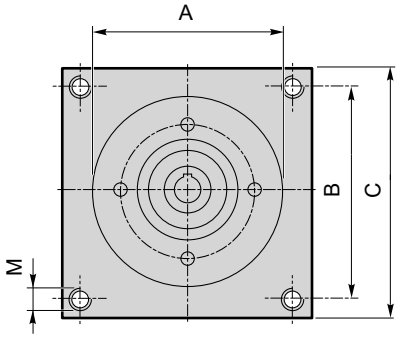




P62.. C...

Lo spessore della flangia è variabile in funzione delle diverse lunghezze dell'albero motore.

Flange's thickness may vary depending on motorshaft's lenght.



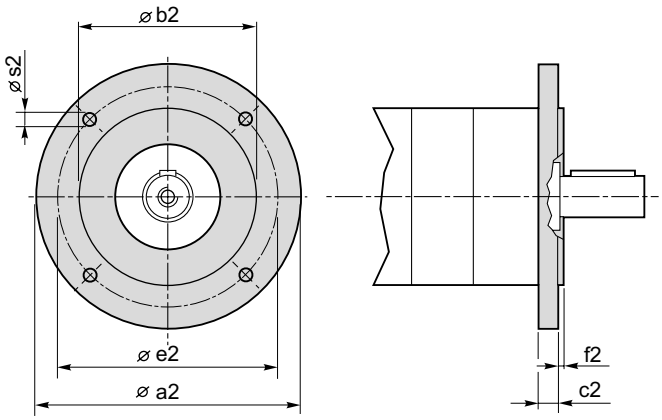
Dimensioni / Dimensions							
AS	**A**	**B**	**C**	**M**	**K**	**L_{max}**	**X**
AS389	73	69.6	86	M5	31.5	23	44.3
...	...	...	...	...	...	...	...

		Lunghezza riduttore Gearbox length	**Kg**
		P	
P62...	1	46	0.8
	2	62	1.2
	3	78	1.6

Dimensioni flange uscita

Output flange dimensions

P.. C..



P	Flange uscita / *Output flanges*						
	a2	b2	c2	e2	f2	s2	Flangia *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**

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