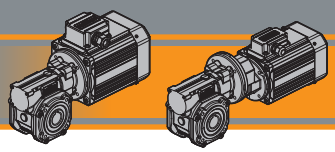
TRANSTECNO®
the modular gearmotor

CL-CLP

CL-CLP

CL-CLP Alù

Motoriduttori a vite senza fine
Wormgearmotors



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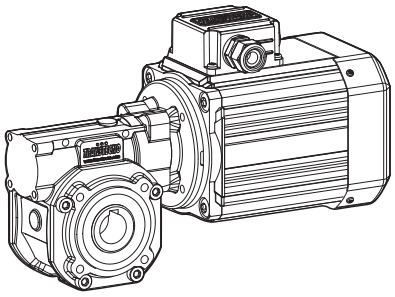
Caratteristiche tecniche — *Technical features*

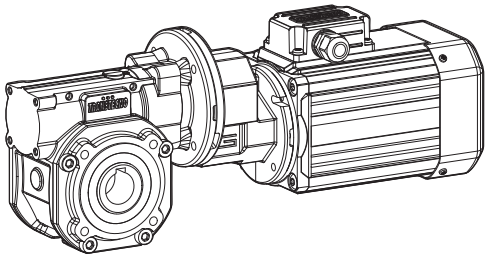
L'elevata modularità contraddistingue i motoriduttori a vite senza fine della serie CL e CLP: i diversi kit entrata ed uscita li rendono estremamente versatili.
Le caratteristiche principali della serie CL e CLP sono:

- Carcassa in alluminio nelle grandezze 026, 030, 040, 050, e 070;
- Le precoppie sono costruite con carcassa in allumino;

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

- *Die-cast aluminium housing on sizes 026, 030, 040, 050, and 070;*
- *Die-cast aluminium housing on pre-stage units;*

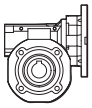
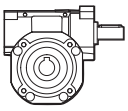




Designazione — *Classification*

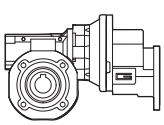
RIDUTTORI A VITE SENZA FINE / WORMGEARBOXES

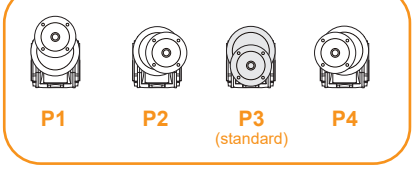
070RIDUTTORE / *GEARBOX*

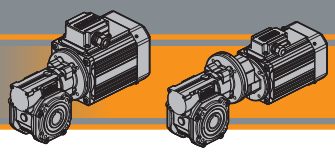
CL	030	U	10	63	B14	SZDX	BRSX	90	VS
Tipo *Type*	Grandezza *Size*	Versione riduttore *Gearbox Version*	Rapporto *Ratio*	IEC	Forma costruttiva *Version*	Albero di uscita *Output shaft*	Braccio di reazione *Torque arm*	Angolo *Angle*	Opzioni *Options*
CL  **CLIS** 	**026** **026 (D11)** **026 (D14)** **030** **040** **050** **070**	**U** **F...**	Vedere tabella *See tables*	**56..** **—** **112..**	**B5** **B14**	**SZDX** **SZSX** **DZ**	**BRDX** **BRSX** (*)	**0°** **90°** **180°** **270°**	**VS**

RIDUTTORI A VITE SENZA FINE CON PRECOPPIA / PRE-STAGE WORMGEARBOXES

RIDUTTORE / *GEARBOX*

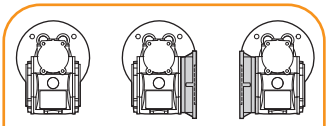
CLP	063/050	U	90	63	B14	SZDX	BRSX	90	P4	M1	VS
Tipo *Type*	Grandezza *Size*	Versione Riduttore *Gearbox Version*	Rapporto *Ratio*	IEC	Forma costruttiva Version	Albero di uscita *Output shaft*	Braccio di reazione *Torque arm*	Angolo *Angle*	Pos. di montaggio precoppia *Pre stage mounting position*	Pos. di montaggio *Mounting position*	Opzioni *Options*
CLP 	**056/030** **056/040** **063/040** **063/050** **071/050** **071/070** **080/070** **090/070**	**U** **F...**	Vedere tabella *See tables*	**56..** **—** **90..**	**B5** **B14**	**SZDX** **SZSX** **DZ**	**BRDX** **BRSX** (*)	**0°** **90°** **180°** **270°**	**P1** **P2** **P3** (standard) **P4**	**M1** (B3) **M2** (V6) **M3** (B8) **M4** (V5) **M6** (B6) **M5** (B7)	**VS**



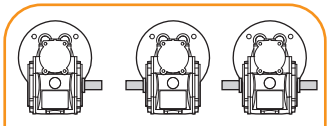


Designazione — *Classification*

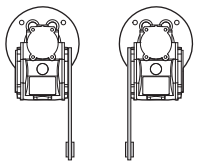
Versione Riduttore *Gearbox Version*



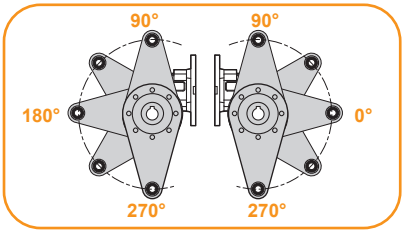
Albero di uscita *Output shaft*



Braccio di reazione *Torque arm* (*)



Angolo *Angle*



(*) NOTA: il braccio di reazione viene fornito smontato.
NOTE: the torque arm will be supplied not assembled.

MOTORE TRIFASE / *THREE PHASE MOTOR*

SMT	63	2	4	0.18 kW	B14	230-400 V	50 Hz	TEFC	T1
Tipo *Type*	Grandezza *Size*	Indicativo potenza *Power coefficient*	Poli *Poles*	Potenza *Power*	Forma costruttiva *Version*	Tensione *Voltage*	Frequenza *Frequency*	*Ventilazione Fan cooling*	Pos. Morsettiera *Terminal box pos.*
SMT	Vedere tabelle *See tables*	**1-2-3-4-5**	**4**	**0.04 kW ... 2.2 kW**	**B14**	**230-400 V 460V**	**50Hz 60Hz**	**TEFC TENV**	**T1** (Std) **T4 T2 T3**

MOTORE MONOFASE / *SINGLE PHASE MOTOR*

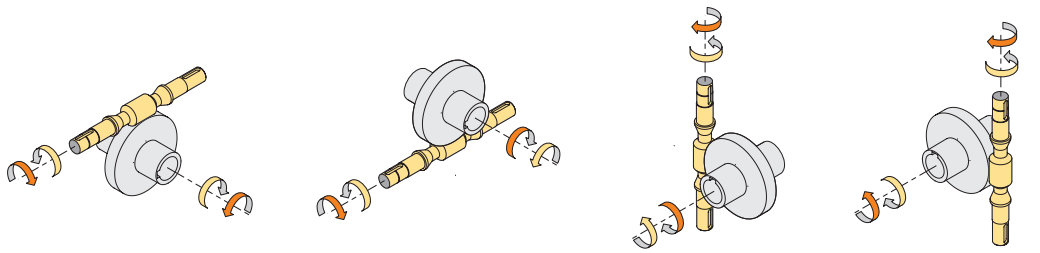
SMM	63	2	4	0.18 kW	B14	230 V	50 Hz	TEFC	T1
Tipo *Type*	Grandezza *Size*	Indicativo potenza *Power coefficient*	Poli *Poles*	Potenza *Power*	Forma costruttiva *Version*	Tensione *Voltage*	Frequenza *Frequency*	*Ventilazione Fan cooling*	Pos. Morsettiera *Terminal box pos.*
SMM	Vedere tabelle *See tables*	**1-2-3-4**	**4**	**0.04 kW ... 0.75 kW**	**B14**	**230V**	**50Hz**	**TEFC TENV**	**T1** (Std) **T4 T2 T3**

MOTORE TRIFASE / *THREE PHASE MOTOR*

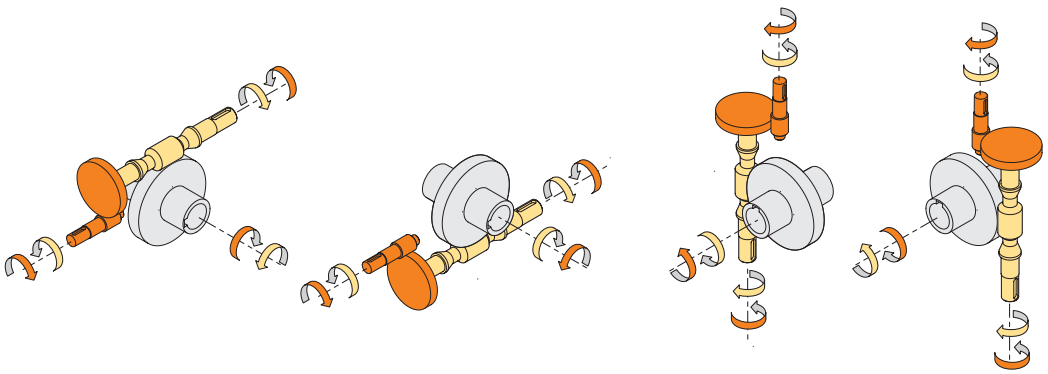
TS	63	2	4	0.18 kW	B5	3 ph	230-400 V	50 Hz	T1
Tipo *Type*	Grandezza *Size*	Indicativo potenza *Power coefficient*	Poli *Poles*	Potenza *Power*	Forma costruttiva *Version*	Fasi *Phases*	Tensione *Voltage*	Frequenza *Frequency*	Pos. Morsettiera *Terminal box pos.*
TS	Vedere tabelle *See tables*	**1-2-3-S L1-L2**	**4**	**0.09 kW ... 2.2 kW**	**B5 B14**	**3 ph**	**230-400 V 275-480 V**	**50Hz 60Hz**	**T1** (Std) **T4 T2 T3**

Sensi di rotazione — *Direction of rotation*

CL



CLP



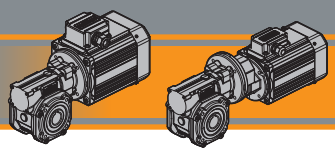
Simbologia — *Symbols*

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*	Rs	%	Rendimento statico / *Static efficiency*
P_1	[kW]	Potenza in entrata / *Nominal 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*	A_2	[N]	Carico assiale ammissibile in uscita / *Permitted output axial load*
Pn_1	[kW]	Potenza nominale in entrata / *Nominal input power*	Z		Numero di principi della vite / *Worm starts*
Mn_2	[Nm]	Coppia nominale in uscita in funzione di Pn_1 / *Nominal output torque referred to Pn_1*	β		Angolo d'elica / *Helix angle*

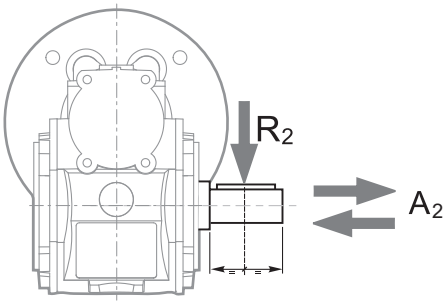
Lubrificazione — *Lubrication*

Tutti i motoriduttori sono forniti completi di lubrificante sintetico viscosità 320, pertanto possono essere installati in qualunque posizione di montaggio e non necessitano di manutenzione.

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



Carichi radiali — *Radial loads*

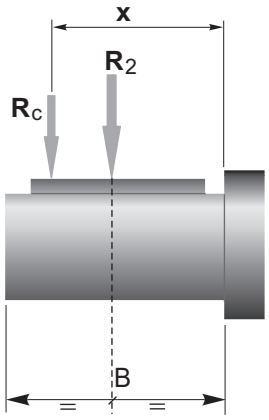


$A_2 = R_2 \times 0.2$

n_2 [min^{-1}]	R_2 [N]				
	CL026	CL030	CL040	CL050	CL070
187	400	674	1264	1770	2613
140	490	743	1392	1949	2878
93	580	851	1596	2234	3298
70	610	936	1754	2456	3626
56	610	1008	1890	2646	3906
47	610	1069	2004	2805	4141
35	610	1179	2210	3095	4568
28	610	1270	2381	3334	4921
23	610	1356	2542	3559	5254
18	610	1471	2759	3862	5702
14	610	1600	3000	4200	6200
		CLP... /030	CLP... /040	CLP... /050	CLP... /070

Quando il carico radiale risultante non è applicato sulla mezzeria 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:



	CL	CL / CLP			
	026	030	040	050	070
a	56	65	84	101	122
b	43	50	64	76	92
R_{2MAX}	610	1600	3000	4200	6200

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

$$R \leq R_c$$

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

Lunghezze alberi disponibili
Output shafts lenght available

I26

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
CL026	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'		
CL030	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'
CL040	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'
CL050	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'
CL070	Z		4	3	2	2	2	1	1	1	1	1	1
	β		26°12'	20°15'	13°49'	11°15'	9°29'	7°0'	5°41'	4°46'	4°7'	3°13'	2°39'

Rendimento — *Efficiency*

	n_1 [min^{-1}]	Rendimento *Efficiency*	Rapporto / *Ratio*											
			5	7.5	10	15	20	25	30	40	50	60	80	100
CL026	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			
CL030	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
CL040	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
CL050	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
CL070	2800	Rd		90	89	87	85	84	80	77	74	72	67	62
	1400			89	87	84	82	80	76	72	68	65	60	53
	900			87	85	82	79	77	72	67	63	60	54	49
		Rs		72	69	62	60	55	48	43	38	36	31	26

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

Dati tecnici — n_1 1400 min^{-1} — *Technical data*

CLIS026

n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i
280	13	0.44	5
187	14	0.33	7,5
140	14	0.25	10
93	14	0.18	15
70	14	0.14	20
47	15	0.11	30
35	14	0.08	40
28	13	0.07	50
23	12	0.06	60

CLIS030

n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i
280	18	0.61	5
187	20	0.46	7.5
140	21	0.37	10
93	21	0.26	15
70	19	0.19	20
56	20	0.16	25
47	22	0.16	30
35	20	0.12	40
28	19	0.10	50
23	17	0.08	60
18	15	0.06	80
14	14	0.05	100

CLIS040

n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i
280	41	1.37	5
187	44	1.00	7.5
140	45	0.79	10
93	45	0.54	15
70	40	0.38	20
56	38	0.30	25
47	48	0.34	30
35	42	0.24	40
28	39	0.19	50
23	36	0.15	60
18	33	0.12	80
14	31	0.10	100

CLIS050

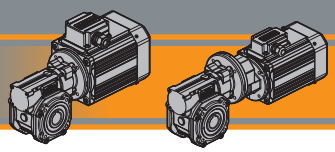
n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i
280	75	2.5	5
187	79	1.8	7.5
140	82	1.4	10
93	82	0.98	15
70	72	0.67	20
56	70	0.54	25
47	88	0.60	30
35	76	0.42	40
28	72	0.34	50
23	69	0.28	60
18	60	0.20	80
14	56	0.17	100

CLIS070

n_2 [min^{-1}]	Mn_2 [Nm]	Pn_1 [kW]	i
187	200	4.4	7.5
140	218	3.7	10
93	221	2.6	15
70	202	1.8	20
56	180	1.3	25
47	241	1.6	30
35	210	1.1	40
28	190	0.82	50
23	181	0.68	60
18	159	0.49	80
14	154	0.43	100

Nota:
Pn_1 è la potenza meccanica.
La potenza applicabile è ridotta del fattore termico.
Per maggiori dettagli consultare il nostro Servizio Tecnico.

Note:
Pn_1 is an input mechanical power which must be reduced by the heating factor in order to get the relevant one. For more details please contact our Technical Service.



Dati tecnici

Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.04							**56**
SMT SMM	**280**	1.2	11.0	5	**CL026**		**B14**
	187	1.7	8.1	7.5	**CL026**		**B14**
	140	2.3	6.2	10	**CL026**		**B14**
5014	**93**	3.2	4.4	15	**CL026**		**B14**
(1400 min^{-1})	**70**	4.0	3.5	20	**CL026**		**B14**
	47	5.4	2.8	30	**CL026**		**B14**
	35	6.7	2.1	40	**CL026**		**B14**
	28	7.8	1.7	50	**CL026**		**B14**
	23	8.7	1.4	60	**CL026**		**B14**
	280	1.2	15.3	5	**CL030**		**B14**
	187	1.7	11.5	7.5	**CL030**		**B14**
	140	2.3	9.2	10	**CL030**		**B14**
	93	3.2	6.5	15	**CL030**		**B14**
	70	4.1	4.6	20	**CL030**		**B14**
	56	4.9	4.1	25	**CL030**		**B14**
	47	5.5	4.0	30	**CL030**		**B14**
	35	6.8	3.0	40	**CL030**		**B14**
	28	7.9	2.4	50	**CL030**		**B14**
	23	9.0	1.9	60	**CL030**		**B14**
	23	11	2.4	60		**CLP056/030**	**B14**
	19	12	2.1	75		**CLP056/030**	**B14**
	18	10	1.4	80	**CL030**		**B14**
	16	14	2.3	90		**CLP056/030**	**B14**
	14	12	1.2	100	**CL030**		**B14**
	12	17	1.7	120		**CLP056/030**	**B14**
	9	20	1.4	150		**CLP056/030**	**B14**
	23	9.5	3.8	60	**CL040**		**B14**
	23	11	5.2	60		**CLP056/040**	**B14**
	19	13	3.9	75		**CLP056/040**	**B14**
	18	11	2.9	80	**CL040**		**B14**
	16	15	4.7	90		**CLP056/040**	**B14**
	14	13	2.5	100	**CL040**		**B14**
	12	19	3.3	120		**CLP056/040**	**B14**
	9	21	2.7	150		**CLP056/040**	**B14**
	8	24	2.3	180		**CLP056/040**	**B14**
	6	28	1.7	240		**CLP056/040**	**B14**
	5	30	1.4	300		**CLP056/040**	**B14**
0.06							**56**
SMT SMM	**280**	1.8	7.3	5	**CL026**		**B14**
	187	2.6	5.4	7.5	**CL026**		**B14**
	140	3.4	4.1	10	**CL026**		**B14**
5024	**93**	4.8	2.9	15	**CL026**		**B14**
(1400 min^{-1})	**70**	6.1	2.3	20	**CL026**		**B14**
	47	8.1	1.9	30	**CL026**		**B14**
	35	10	1.4	40	**CL026**		**B14**
	28	12	1.1	50	**CL026**		**B14**
	23	13	0.9	60	**CL026**		**B14**
	280	1.8	10.2	5	**CL030**		**B14**
	187	2.6	7.7	7.5	**CL030**		**B14**
	140	3.4	6.1	10	**CL030**		**B14**
	93	4.9	4.3	15	**CL030**		**B14**
	70	6.1	3.1	20	**CL030**		**B14**
	56	7.4	2.7	25	**CL030**		**B14**
	47	8.2	2.7	30	**CL030**		**B14**
	35	10	2.0	40	**CL030**		**B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.06							**56**
SMT SMM	**28**	12	1.6	50	**CL030**		**B14**
	23	14	1.3	60	**CL030**		**B14**
	23	16	1.6	60		**CLP056/030**	**B14**
5024	**19**	19	1.4	75		**CLP056/030**	**B14**
(1400 min^{-1})	**18**	16	1.0	80	**CL030**		**B14**
	16	21	1.6	90		**CLP056/030**	**B14**
	14	18	0.8	100	**CL030**		**B14**
	12	25	1.1	120		**CLP056/030**	**B14**
	9	29	0.9	150		**CLP056/030**	**B14**
	28	12	3.2	50	**CL040**		**B14**
	23	14	2.5	60	**CL040**		**B14**
	23	17	3.4	60		**CLP056/040**	**B14**
	19	20	2.6	75		**CLP056/040**	**B14**
	18	17	1.9	80	**CL040**		**B14**
	16	23	3.1	90		**CLP056/040**	**B14**
	14	19	1.6	100	**CL040**		**B14**
	12	28	2.2	120		**CLP056/040**	**B14**
	9	32	1.8	150		**CLP056/040**	**B14**
	8	35	1.5	180		**CLP056/040**	**B14**
	6	41	1.1	240		**CLP056/040**	**B14**
	5	46	0.9	300		**CLP056/040**	**B14**
0.09							**56**
SMT SMM	**280**	2.7	4.9	5	**CL026**		**B14**
	187	3.9	3.6	7.5	**CL026**		**B14**
	140	5.1	2.7	10	**CL026**		**B14**
5034	**93**	7.2	1.9	15	**CL026**		**B14**
5624	**70**	9.1	1.5	20	**CL026**		**B14**
(1400 min^{-1})	**47**	12	1.2	30	**CL026**		**B14**
	35	15	0.9	40	**CL026**		**B14**
	28	17	0.7	50	**CL026**		**B14**
	280	2.6	6.8	5	**CL030**		**B14**
	187	3.9	5.1	7.5	**CL030**		**B14**
	140	5.2	4.1	10	**CL030**		**B14**
	93	7.3	2.9	15	**CL030**		**B14**
	70	9.2	2.1	20	**CL030**		**B14**
	56	11	1.8	25	**CL030**		**B14**
	47	12	1.8	30	**CL030**		**B14**
	35	15	1.3	40	**CL030**		**B14**
	28	18	1.1	50	**CL030**		**B14**
	23	20	0.8	60	**CL030**		**B14**
	23	24	1.1	60		**CLP056/030**	**B14**
	19	29	0.9	75		**CLP056/030**	**B14**
	18	24	0.6	80	**CL030**		**B14**
	16	32	1.0	90		**CLP056/030**	**B14**
	12	38	0.8	120		**CLP056/030**	**B14**

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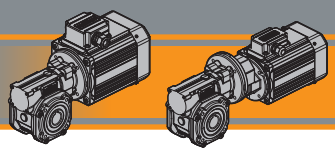
Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.09							**56**
SMT SMM	**35**	16	2.6	40	**CL040**		**B14**
	28	18	2.1	50	**CL040**		**B14**
	23	21	1.7	60	**CL040**		**B14**
5034	**23**	25	2.3	60		**CLP056/040**	**B14**
5624	**19**	30	1.7	75		**CLP056/040**	**B14**
(1400 min^{-1})	**18**	26	1.3	80	**CL040**		**B14**
	16	34	2.1	90		**CLP056/040**	**B14**
	14	28	1.1	100	**CL040**		**B14**
	12	42	1.5	120		**CLP056/040**	**B14**
	9	48	1.2	150		**CLP056/040**	**B14**
	8	53	1.0	180		**CLP056/040**	**B14**
	5.8	62	0.8	240		**CLP056/040**	**B14**
0.12							**56**
SMT SMM	**280**	3.6	3.7	5	**CL026**		**B14**
	187	5.2	2.7	7.5	**CL026**		**B14**
	140	6.8	2.1	10	**CL026**		**B14**
5044*	**93**	10	1.5	15	**CL026**		**B14**
5634	**70**	12	1.2	20	**CL026**		**B14**
(1400 min^{-1})	**47**	16	0.9	30	**CL026**		**B14**
	35	20	0.7	40	**CL026**		**B14**
	280	3.5	5.1	5	**CL030**		**B14**
	187	5.2	3.8	7.5	**CL030**		**B14**
	140	6.9	3.1	10	**CL030**		**B14**
	93	10	2.2	15	**CL030**		**B14**
	70	12	1.5	20	**CL030**		**B14**
	56	15	1.4	25	**CL030**		**B14**
	47	16	1.3	30	**CL030**		**B14**
	35	20	1.0	40	**CL030**		**B14**
	28	24	0.8	50	**CL030**		**B14**
	23	32	0.8	60		**CLP056/030**	**B14**
	93	10	4.5	15	**CL040**		**B14**
	70	13	3.1	20	**CL040**		**B14**
	56	15	2.5	25	**CL040**		**B14**
	47	17	2.8	30	**CL040**		**B14**
	35	21	2.0	40	**CL040**		**B14**
	28	25	1.6	50	**CL040**		**B14**
	23	28	1.3	60	**CL040**		**B14**
	23	34	1.7	60		**CLP056/040**	**B14**
	19	40	1.3	75		**CLP056/040**	**B14**
	18	34	1.0	80	**CL040**		**B14**
	16	45	1.6	90		**CLP056/040**	**B14**
	14	38	0.8	100	**CL040**		**B14**
	12	56	1.1	120		**CLP056/040**	**B14**
	9	64	1.0	150		**CLP056/040**	**B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.12							**63**
TS6314	**280**	4	5.1	5	**CL030**		**B5-B14**
(1400 min^{-1})	**187**	5	3.8	7.5	**CL030**		**B5-B14**
	140	7	3.1	10	**CL030**		**B5-B14**
	93	10	2.2	15	**CL030**		**B5-B14**
	70	12	1.5	20	**CL030**		**B5-B14**
	56	15	1.4	25	**CL030**		**B5-B14**
	47	16	1.3	30	**CL030**		**B5-B14**
	35	20	1.0	40	**CL030**		**B5-B14**
	28	24	0.8	50	**CL030**		**B5-B14**
	280	4	11.4	5	**CL040**		**B5-B14**
	187	5	8.3	7.5	**CL040**		**B5-B14**
	140	7	6.5	10	**CL040**		**B5-B14**
	93	10	4.5	15	**CL040**		**B5-B14**
	70	13	3.1	20	**CL040**		**B5-B14**
	56	15	2.5	25	**CL040**		**B5-B14**
	47	17	2.8	30	**CL040**		**B5-B14**
	35	21	2.0	40	**CL040**		**B5-B14**
	28	25	1.6	50	**CL040**		**B5-B14**
	23	28	1.3	60	**CL040**		**B5-B14**
	23	34	1.7	60		**CLP063/040**	**B14**
	19	40	1.3	75		**CLP063/040**	**B14**
	18	34	1.0	80	**CL040**		**B5-B14**
	16	45	1.6	90		**CLP063/040**	**B14**
	14	38	0.8	100	**CL040**		**B5-B14**
	12	56	1.1	120		**CLP063/040**	**B14**
	35	22	3.5	40	**CL050**		**B5-B14**
	28	26	2.8	50	**CL050**		**B5-B14**
	23	29	2.3	60	**CL050**		**B5-B14**
	23	34	3.0	60		**CLP063/040**	**B14**
	19	40	2.3	75		**CLP063/040**	**B14**
	18	35	1.7	80	**CL050**		**B5-B14**
	16	47	2.7	90		**CLP063/040**	**B14**
	14	40	1.4	100	**CL050**		**B5-B14**
	12	57	1.9	120		**CLP063/040**	**B14**
	9.3	66	1.6	150		**CLP063/040**	**B14**
	7.8	74	1.3	180		**CLP063/040**	**B14**
	5.8	85	1.0	240		**CLP063/040**	**B14**
0.18							**56**
SMT SMM	**280**	5.3	2.4	5	**CL026**		**B14**
	187	7.7	1.8	7.5	**CL026**		**B14**
	140	10	1.4	10	**CL026**		**B14**
5644	**93**	14	1.0	15	**CL026**		**B14**
(1400 min^{-1})	**70**	18	0.8	20	**CL026**		**B14**
	280	5.3	3.4	5	**CL030**		**B14**
	187	7.8	2.6	7.5	**CL030**		**B14**
	140	10	2.0	10	**CL030**		**B14**
	93	15	1.4	15	**CL030**		**B14**
	70	18	1.0	20	**CL030**		**B14**
	56	22	0.9	25	**CL030**		**B14**
	47	25	0.9	30	**CL030**		**B14**

*: disponibile solo nella versione SMT trifase

*: *available in SMT 3 phases version only*



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Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.18							**56**
SMT SMM	**280**	5.4	7.6	5	**CL040**		**B14**
	187	7.9	5.6	7.5	**CL040**		**B14**
	140	10	4.4	10	**CL040**		**B14**
5644	**93**	15	3.0	15	**CL040**		**B14**
(1400 min^{-1})	**70**	19	2.1	20	**CL040**		**B14**
	56	23	1.7	25	**CL040**		**B14**
	47	26	1.9	30	**CL040**		**B14**
	35	32	1.3	40	**CL040**		**B14**
	28	37	1.1	50	**CL040**		**B14**
	23	43	0.8	60	**CL040**		**B14**
	23	51	1.1	60		**CLP056/040**	**B14**
	19	60	0.9	75		**CLP056/040**	**B14**
	18	68	1.0	90		**CLP056/040**	**B14**
0.18							**63**
SMT SMM	**280**	5.3	3.4	5	**CL030**		**B14**
	187	7.8	2.6	7.5	**CL030**		**B14**
	140	10	2.0	10	**CL030**		**B14**
6324	**93**	15	1.4	15	**CL030**		**B14**
(1400 min^{-1})	**70**	18	1.0	20	**CL030**		**B14**
	56	22	0.9	25	**CL030**		**B14**
	47	25	0.9	30	**CL030**		**B14**
	280	5.4	7.6	5	**CL040**		**B14**
	187	7.9	5.6	7.5	**CL040**		**B14**
	140	10	4.4	10	**CL040**		**B14**
	93	15	3.0	15	**CL040**		**B14**
	70	19	2.1	20	**CL040**		**B14**
	56	23	1.7	25	**CL040**		**B14**
	47	26	1.9	30	**CL040**		**B14**
	35	32	1.3	40	**CL040**		**B14**
	28	37	1.1	50	**CL040**		**B14**
	23	43	0.8	60	**CL040**		**B14**
	23	51	1.1	60		**CLP063/040**	**B14**
	19	60	0.9	75		**CLP063/040**	**B14**
	16	68	1.0	90		**CLP063/040**	**B14**
	35	33	2.3	40	**CL050**		**B14**
	28	39	1.9	50	**CL050**		**B14**
	23	44	1.6	60	**CL050**		**B14**
	23	51	2.0	60		**CLP063/050**	**B14**
	19	60	1.5	75		**CLP063/050**	**B14**
	18	53	1.1	80	**CL050**		**B14**
	16	70	1.8	90		**CLP063/050**	**B14**
	14	60	0.9	100	**CL050**		**B14**
	12	85	1.3	120		**CLP063/050**	**B14**
	9.3	99	1.0	150		**CLP063/050**	**B14**
	7.8	110	0.9	180		**CLP063/050**	**B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.18							**63**
TS6324	**280**	5.3	3.4	5	**CL030**		**B5-B14**
(1400 min^{-1})	**187**	7.8	2.6	7.5	**CL030**		**B5-B14**
	140	10	2.0	10	**CL030**		**B5-B14**
	93	15	1.4	15	**CL030**		**B5-B14**
	70	18	1.0	20	**CL030**		**B5-B14**
	56	22	0.9	25	**CL030**		**B5-B14**
	47	25	0.9	30	**CL030**		**B5-B14**
	280	5.4	7.6	5	**CL040**		**B5-B14**
	187	7.9	5.6	7.5	**CL040**		**B5-B14**
	140	10	4.4	10	**CL040**		**B5-B14**
	93	15	3.0	15	**CL040**		**B5-B14**
	70	19	2.1	20	**CL040**		**B5-B14**
	56	23	1.7	25	**CL040**		**B5-B14**
	47	26	1.9	30	**CL040**		**B5-B14**
	35	32	1.3	40	**CL040**		**B5-B14**
	28	37	1.1	50	**CL040**		**B5-B14**
	23	43	0.8	60	**CL040**		**B5-B14**
	23	51	1.1	60		**CLP063/040**	**B14**
	19	60	0.9	75		**CLP063/040**	**B14**
	16	68	1.0	90		**CLP063/040**	**B14**
	35	33	2.3	40	**CL050**		**B5-B14**
	28	39	1.9	50	**CL050**		**B5-B14**
	23	44	1.6	60	**CL050**		**B5-B14**
	23	51	2.0	60		**CLP063/050**	**B14**
	19	60	1.5	75		**CLP063/050**	**B14**
	18	53	1.1	80	**CL050**		**B5-B14**
	16	70	1.8	90		**CLP063/050**	**B14**
	14	60	0.9	100	**CL050**		**B5-B14**
	12	85	1.3	120		**CLP063/050**	**B14**
	9.3	99	1.0	150		**CLP063/050**	**B14**
	7.8	110	0.9	180		**CLP063/050**	**B14**
0.25							**56**
SMT SMM	**280**	7	1.8	5	**CL026**		**B14**
	187	11	1.3	8	**CL026**		**B14**
	140	14	1.0	10	**CL026**		**B14**
5654							
(1400 min^{-1})	**280**	7.3	2.5	5	**CL030**		**B14**
	187	11	1.8	7.5	**CL030**		**B14**
	140	14	1.5	10	**CL030**		**B14**
	93	20	1.0	15	**CL030**		**B14**
	70	26	0.7	20	**CL030**		**B14**
	280	7.5	5.5	5	**CL040**		**B14**
	187	11	4.0	7.5	**CL040**		**B14**
	140	14	3.1	10	**CL040**		**B14**
	93	21	2.2	15	**CL040**		**B14**
	70	27	1.5	20	**CL040**		**B14**
	56	32	1.2	25	**CL040**		**B14**
	47	36	1.3	30	**CL040**		**B14**
	35	44	0.9	40	**CL040**		**B14**
	28	51	0.8	50	**CL040**		**B14**
	23	70	0.8	60		**CLP056/040**	**B14**

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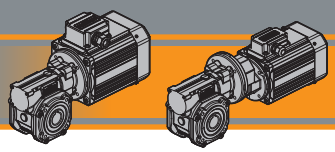
Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.25							**63**
SMT SMM	**280**	7.3	2.5	5	**CL030**		**B14**
	187	11	1.8	7.5	**CL030**		**B14**
	140	14	1.5	10	**CL030**		**B14**
6334	**93**	20	1.0	15	**CL030**		**B14**
(1400 min^{-1})	**70**	26	0.7	20	**CL030**		**B14**
	280	7.5	5.5	5	**CL040**		**B14**
	187	11	4.0	7.5	**CL040**		**B14**
	140	14	3.1	10	**CL040**		**B14**
	93	21	2.2	15	**CL040**		**B14**
	70	27	1.5	20	**CL040**		**B14**
	56	32	1.2	25	**CL040**		**B14**
	47	36	1.3	30	**CL040**		**B14**
	35	44	0.9	40	**CL040**		**B14**
	28	51	0.8	50	**CL040**		**B14**
	23	70	0.8	60		**CLP063/040**	**B14**
	19	83	0.6	75		**CLP063/040**	**B14**
	16	95	0.7	90		**CLP063/040**	**B14**
	56	32	2.2	25	**CL050**		**B14**
	47	37	2.4	30	**CL050**		**B14**
	35	46	1.7	40	**CL050**		**B14**
	28	54	1.3	50	**CL050**		**B14**
	23	61	1.1	60	**CL050**		**B14**
	23	71	1.4	60		**CLP063/050**	**B14**
	19	84	1.1	75		**CLP063/050**	**B14**
	18	74	0.8	80	**CL050**		**B14**
	16	98	1.3	90		**CLP063/050**	**B14**
	14	84	0.7	100	**CL050**		**B14**
	12	118	0.9	120		**CLP063/050**	**B14**
	9.0	138	0.8	150		**CLP063/050**	**B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.25							**63**
TS6334	**280**	7.3	2.5	5	**CL030**		**B5-B14**
(1400 min^{-1})	**187**	11	1.8	7.5	**CL030**		**B5-B14**
	140	14	1.5	10	**CL030**		**B5-B14**
	93	20	1.0	15	**CL030**		**B5-B14**
	70	26	0.7	20	**CL030**		**B5-B14**
	280	7.5	5.5	5	**CL040**		**B5-B14**
	187	11	4.0	7.5	**CL040**		**B5-B14**
	140	14	3.1	10	**CL040**		**B5-B14**
	93	21	2.2	15	**CL040**		**B5-B14**
	70	27	1.5	20	**CL040**		**B5-B14**
	56	32	1.2	25	**CL040**		**B5-B14**
	47	36	1.3	30	**CL040**		**B5-B14**
	35	44	0.9	40	**CL040**		**B5-B14**
	28	51	0.8	50	**CL040**		**B5-B14**
	23	70	0.8	60		**CLP063/040**	**B14**
	19	83	0.6	75		**CLP063/040**	**B14**
	16	95	0.7	90		**CLP063/040**	**B14**
	56	32	2.2	25	**CL050**		**B5-B14**
	47	37	2.4	30	**CL050**		**B5-B14**
	35	46	1.7	40	**CL050**		**B5-B14**
	28	54	1.3	50	**CL050**		**B5-B14**
	23	61	1.1	60	**CL050**		**B5-B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.25							**63**
TS6334	**23**	71	1.4	60		**CLP063/050**	**B14**
(1400 min^{-1})	**19**	84	1.1	75		**CLP063/050**	**B14**
	18	74	0.8	80	**CL050**		**B5-B14**
	16	98	1.3	90		**CLP063/050**	**B14**
	14	84	0.7	100	**CL050**		**B5-B14**
	12	118	0.9	120		**CLP063/050**	**B14**
	9.0	138	0.8	150		**CLP063/050**	**B14**
0.25							**71**
TS7114	**280**	8	5.5	5	**CL040**		**B5-B14**
(1400 min^{-1})	**187**	11	4.0	7.5	**CL040**		**B5-B14**
	140	14	3.1	10	**CL040**		**B5-B14**
	93	21	2.2	15	**CL040**		**B5-B14**
	70	27	1.5	20	**CL040**		**B5-B14**
	56	32	1.2	25	**CL040**		**B5-B14**
	47	36	1.3	30	**CL040**		**B5-B14**
	35	44	0.9	40	**CL040**		**B5-B14**
	70	27	2.7	20	**CL050**		**B5-B14**
	56	32	2.2	25	**CL050**		**B5-B14**
	47	37	2.4	30	**CL050**		**B5-B14**
	35	46	1.7	40	**CL050**		**B5-B14**
	28	54	1.3	50	**CL050**		**B5-B14**
	23	61	1.1	60	**CL050**		**B5-B14**
	23	71	1.4	60		**CLP071/050**	**B14**
	19	84	1.1	75		**CLP071/050**	**B14**
	18	74	0.8	80	**CL050**		**B5-B14**
	16	98	1.3	90		**CLP071/050**	**B14**
	28	58	3.3	50	**CL070**		**B5**
	23	67	2.7	60	**CL070**		**B5**
	18	82	1.9	80	**CL070**		**B5**
	16	99	3.1	90		**CLP071/070**	**B14**
	14	90	1.7	100	**CL070**		**B5**
	12	122	2.2	120		**CLP071/070**	**B14**
	9.3	143	1.8	150		**CLP071/070**	**B14**
	7.8	159	1.4	180		**CLP071/070**	**B14**
	5.8	189	1.1	240		**CLP071/070**	**B14**
	4.7	211	1.9	300		**CLP071/070**	**B14**



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Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.37							**63**
SMT SMM 6344 (1400 min^{-1})	**280**	11	1.7	5	**CL030**		**B14**
	187	16	1.2	7.5	**CL030**		**B14**
	140	21	1.0	10	**CL030**		**B14**
	93	30	0.7	15	**CL030**		**B14**
	280	11	3.7	5	**CL040**		**B14**
	187	16	2.7	7.5	**CL040**		**B14**
	140	21	2.1	10	**CL040**		**B14**
	93	31	1.5	15	**CL040**		**B14**
	70	39	1.0	20	**CL040**		**B14**
	56	47	0.8	25	**CL040**		**B14**
	47	53	0.9	30	**CL040**		**B14**
	93	31	2.6	15	**CL050**		**B14**
	70	40	1.8	20	**CL050**		**B14**
	56	48	1.5	25	**CL050**		**B14**
	47	55	1.6	30	**CL050**		**B14**
	35	68	1.1	40	**CL050**		**B14**
	28	80	0.9	50	**CL050**		**B14**
	23	91	0.8	60	**CL050**		**B14**
	23	105	1.0	60		**CLP063/050**	**B14**
	19	124	0.7	75		**CLP063/050**	**B14**
	16	145	0.9	90		**CLP063/050**	**B14**
0.37							**71**
SMT SMM 7124 (1400 min^{-1})	**280**	11	3.7	5	**CL040**		**B14**
	187	16	2.7	7.5	**CL040**		**B14**
	140	21	2.1	10	**CL040**		**B14**
	93	31	1.5	15	**CL040**		**B14**
	70	39	1.0	20	**CL040**		**B14**
	56	47	0.8	25	**CL040**		**B14**
	47	53	0.9	30	**CL040**		**B14**
	93	31	2.6	15	**CL050**		**B14**
	70	40	1.8	20	**CL050**		**B14**
	56	48	1.5	25	**CL050**		**B14**
	47	55	1.6	30	**CL050**		**B14**
	35	68	1.1	40	**CL050**		**B14**
	28	80	0.9	50	**CL050**		**B14**
	23	91	0.8	60	**CL050**		**B14**
	23	105	1.0	60		**CLP071/050**	**B14**
	19	124	0.7	75		**CLP071/050**	**B14**
	16	145	0.9	90		**CLP071/050**	**B14**
	23	110	2.6	60		**CLP071/070**	**B14**
	19	132	1.9	75		**CLP071/070**	**B14**
	16	147	2.3	90		**CLP071/070**	**B14**
	12	181	1.7	120		**CLP071/070**	**B14**
	9.3	211	1.3	150		**CLP071/070**	**B14**
	7.8	236	1.1	180		**CLP071/070**	**B14**
	5.8	279	0.8	240		**CLP071/070**	**B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.37							**71**
TS7124 (1400 min^{-1})	**280**	11	3.7	5	**CL040**		**B5-B14**
	187	16	2.7	7.5	**CL040**		**B5-B14**
	140	21	2.1	10	**CL040**		**B5-B14**
	93	31	1.5	15	**CL040**		**B5-B14**
	70	39	1.0	20	**CL040**		**B5-B14**
	56	47	0.8	25	**CL040**		**B5-B14**
	47	53	0.9	30	**CL040**		**B5-B14**
	93	31	2.6	15	**CL050**		**B5-B14**
	70	40	1.8	20	**CL050**		**B5-B14**
	56	48	1.5	25	**CL050**		**B5-B14**
	47	55	1.6	30	**CL050**		**B5-B14**
	35	68	1.1	40	**CL050**		**B5-B14**
	28	80	0.9	50	**CL050**		**B5-B14**
	23	91	0.8	60	**CL050**		**B5-B14**
	23	105	1.0	60		**CLP071/050**	**B14**
	19	124	0.7	75		**CLP071/050**	**B14**
	16	145	0.9	90		**CLP071/050**	**B14**
	47	58	4.2	30	**CL070**		**B5**
	35	73	2.9	40	**CL070**		**B5**
	28	86	2.2	50	**CL070**		**B5**
	23	98	1.8	60	**CL070**		**B5**
	23	110	2.6	60		**CLP071/070**	**B14**
	19	132	1.9	75		**CLP071/070**	**B14**
	18	121	1.3	80	**CL070**		**B5**
	16	147	2.3	90		**CLP071/070**	**B14**
	14	134	1.2	100	**CL070**		**B5**
	12	181	1.7	120		**CLP071/070**	**B14**
	9.3	211	1.3	150		**CLP071/070**	**B14**
	7.8	236	1.1	180		**CLP071/070**	**B14**
	5.8	279	0.8	240		**CLP071/070**	**B14**
0.55							**71**
SMT SMM 7134 (1400 min^{-1})	**280**	17	2.5	5	**CL040**		**B14**
	187	24	1.8	7.5	**CL040**		**B14**
	140	32	1.4	10	**CL040**		**B14**
	93	46	1.0	15	**CL040**		**B14**
	140	32	2.6	10	**CL050**		**B14**
	93	46	1.8	15	**CL050**		**B14**
	70	59	1.2	20	**CL050**		**B14**
	56	71	1.0	25	**CL050**		**B14**
	47	81	1.1	30	**CL050**		**B14**
	35	101	0.8	40	**CL050**		**B14**
	23	163	1.7	60		**CLP071/070**	**B14**
	19	196	1.3	75		**CLP071/070**	**B14**
	16	218	1.6	90		**CLP071/070**	**B14**
	12	269	1.1	120		**CLP071/070**	**B14**
	9.3	314	0.9	150		**CLP071/070**	**B14**

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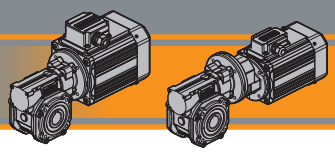
Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.55							**71**
TS7134 (1400 min^{-1})	**280**	17	2.5	5	**CL040**		**B5-B14**
	187	24	1.8	7.5	**CL040**		**B5-B14**
	140	32	1.4	10	**CL040**		**B5-B14**
	93	46	1.0	15	**CL040**		**B5-B14**
	140	32	2.6	10	**CL050**		**B5-B14**
	93	46	1.8	15	**CL050**		**B5-B14**
	70	59	1.2	20	**CL050**		**B5-B14**
	56	71	1.0	25	**CL050**		**B5-B14**
	47	81	1.1	30	**CL050**		**B5-B14**
	35	101	0.8	40	**CL050**		**B5-B14**
	56	75	2.4	25	**CL070**		**B5**
	35	108	1.9	40	**CL070**		**B5**
	28	128	1.5	50	**CL070**		**B5**
	23	146	1.2	60	**CL070**		**B5**
	23	163	1.7	60		**CLP071/070**	**B14**
	19	196	1.3	75		**CLP071/070**	**B14**
	18	180	0.9	80	**CL070**		**B5**
	16	218	1.6	90		**CLP071/070**	**B14**
	12	269	1.1	120		**CLP071/070**	**B14**
	9.3	314	0.9	150		**CLP071/070**	**B14**
0.55							**80**
TS8014 (1400 min^{-1})	**280**	17	4.5	5	**CL050**		**B5-B14**
	187	24	3.2	7.5	**CL050**		**B5-B14**
	140	32	2.6	10	**CL050**		**B5-B14**
	93	46	1.8	15	**CL050**		**B5-B14**
	70	59	1.2	20	**CL050**		**B5-B14**
	56	71	1.0	25	**CL050**		**B5-B14**
	47	81	1.1	30	**CL050**		**B5-B14**
	70	62	3.3	20	**CL070**		**B5-B14**
	56	75	2.4	25	**CL070**		**B5-B14**
	35	108	1.9	40	**CL070**		**B5-B14**
	28	128	1.5	50	**CL070**		**B5-B14**
	23	146	1.2	60	**CL070**		**B5-B14**
	23	163	1.7	60		**CLP080/070**	**B14**
	19	196	1.3	75		**CLP080/070**	**B14**
	18	180	0.9	80	**CL070**		**B5-B14**
	16	218	1.6	90		**CLP080/070**	**B14**
	12	269	1.1	120		**CLP080/070**	**B14**
0.75							**71**
SMT SMM **7144*** (1400 min^{-1})	**280**	23	1.8	5	**CL040**		**B14**
	187	33	1.3	7.5	**CL040**		**B14**
	140	43	1.0	10	**CL040**		**B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
0.75							**71**
SMT SMM **7144*** (1400 min^{-1})	**280**	23	3.3	5	**CL050**		**B14**
	187	33	2.4	7.5	**CL050**		**B14**
	140	43	1.9	10	**CL050**		**B14**
	93	63	1.3	15	**CL050**		**B14**
	70	81	0.9	20	**CL050**		**B14**
	56	97	0.7	25	**CL050**		**B14**
	47	111	0.8	30	**CL050**		**B14**
	23	223	1.3	60		**CLP071/070**	**B14**
	19	267	0.9	75		**CLP071/070**	**B14**
	16	298	1.1	90		**CLP071/070**	**B14**
	12	367	0.8	120		**CLP071/070**	**B14**
0.75							**80**
SMT SMM **8024** (1400 min^{-1})	**280**	23	3.3	5	**CL050**		**B14**
	187	33	2.4	7.5	**CL050**		**B14**
	140	43	1.9	10	**CL050**		**B14**
	93	63	1.3	15	**CL050**		**B14**
	70	81	0.9	20	**CL050**		**B14**
	56	97	0.7	25	**CL050**		**B14**
	47	111	0.8	30	**CL050**		**B14**
	93	64	3.4	15	**CL070**		**B14**
	70	85	2.4	20	**CL070**		**B14**
	56	102	1.8	25	**CL070**		**B14**
	47	118	2.1	30	**CL070**		**B14**
	35	149	1.4	40	**CL070**		**B14**
	28	177	1.1	50	**CL070**		**B14**
	23	203	0.9	60	**CL070**		**B14**
	23	223	1.3	60		**CLP080/070**	**B14**
	19	267	0.9	75		**CLP080/070**	**B14**
	16	298	1.1	90		**CLP080/070**	**B14**
	12	367	0.8	120		**CLP080/070**	**B14**
0.75							**80**
TS8024 (1400 min^{-1})	**280**	23	3.3	5	**CL050**		**B5-B14**
	187	33	2.4	7.5	**CL050**		**B5-B14**
	140	43	1.9	10	**CL050**		**B5-B14**
	93	63	1.3	15	**CL050**		**B5-B14**
	70	81	0.9	20	**CL050**		**B5-B14**
	56	97	0.7	25	**CL050**		**B5-B14**
	47	111	0.8	30	**CL050**		**B5-B14**
	93	64	3.4	15	**CL070**		**B5-B14**
	70	85	2.4	20	**CL070**		**B5-B14**
	56	102	1.8	25	**CL070**		**B5-B14**
	47	118	2.1	30	**CL070**		**B5-B14**
	35	149	1.4	40	**CL070**		**B5-B14**
	28	177	1.1	50	**CL070**		**B5-B14**
	23	203	0.9	60	**CL070**		**B5-B14**
	23	223	1.3	60		**CLP080/070**	**B14**
	19	267	0.9	75		**CLP080/070**	**B14**
	16	298	1.1	90		**CLP080/070**	**B14**
	12	367	0.8	120		**CLP080/070**	**B14**

*: disponibile solo nella versione SMT trifase

*: *available in SMT 3 phases version only*



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Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
1.1							**80**
SMT SMM	**280**	33	2.2	5	**CL050**		**B14**
	187	49	1.6	7.5	**CL050**		**B14**
	140	64	1.3	10	**CL050**		**B14**
8034*	**93**	92	0.9	15	**CL050**		**B14**
(1400 min^{-1})							
	187	50	4.0	7.5	**CL070**		**B14**
	140	65	3.3	10	**CL070**		**B14**
	93	95	2.3	15	**CL070**		**B14**
	70	125	1.6	20	**CL070**		**B14**
	56	150	1.2	25	**CL070**		**B14**
	47	173	1.4	30	**CL070**		**B14**
	35	219	1.0	40	**CL070**		**B14**
	23	326	0.9	60		**CLP080/070**	**B14**
	16	437	0.8	90		**CLP080/070**	**B14**
1.1							**80**
TS8034	**280**	33	2.2	5	**CL050**		**B5-B14**
(1400 min^{-1})	**187**	49	1.6	7.5	**CL050**		**B5-B14**
	140	64	1.3	10	**CL050**		**B5-B14**
	93	92	0.9	15	**CL050**		**B5-B14**
	187	50	4.0	7.5	**CL070**		**B5-B14**
	140	65	3.3	10	**CL070**		**B5-B14**
	93	95	2.3	15	**CL070**		**B5-B14**
	70	125	1.6	20	**CL070**		**B5-B14**
	56	150	1.2	25	**CL070**		**B5-B14**
	47	173	1.4	30	**CL070**		**B5-B14**
	35	219	1.0	40	**CL070**		**B5-B14**
	23	326	0.9	60		**CLP080/070**	**B14**
	16	437	0.8	90		**CLP080/070**	**B14**
1.1							**90**
TS90S4	**187**	50	4.0	7.5	**CL070**		**B5-B14**
(1400 min^{-1})	**140**	65	3.3	10	**CL070**		**B5-B14**
	93	95	2.3	15	**CL070**		**B5-B14**
	70	125	1.6	20	**CL070**		**B5-B14**
	56	150	1.2	25	**CL070**		**B5-B14**
	47	173	1.4	30	**CL070**		**B5-B14**
	35	219	1.0	40	**CL070**		**B5-B14**
	23	326	0.9	60		**CLP090/070**	**B14**
	19	392	0.7	75		**CLP090/070**	**B14**
	16	437	0.8	90		**CLP090/070**	**B14**
1.5							**90**
SMT SMM	**187**	68	2.9	7.5	**CL070**		**B14**
	140	89	2.4	10	**CL070**		**B14**
	93	129	1.7	15	**CL070**		**B14**
9024*	**70**	170	1.2	20	**CL070**		**B14**
(1400 min^{-1})	**56**	205	0.9	25	**CL070**		**B14**
	47	236	1.0	30	**CL070**		**B14**
1.5							**90**
TS90L14	**187**	68	2.9	7.5	**CL070**		**B5-B14**
(1400 min^{-1})	**140**	89	2.4	10	**CL070**		**B5-B14**
	93	129	1.7	15	**CL070**		**B5-B14**
	70	170	1.2	20	**CL070**		**B5-B14**
	56	205	0.9	25	**CL070**		**B5-B14**
	47	236	1.0	30	**CL070**		**B5-B14**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i			IEC
2.2							**90**
SMT SMM	**187**	100	2.0	7.5	**CL070**		**B14**
	140	131	1.7	10	**CL070**		**B14**
	93	189	1.2	15	**CL070**		**B14**
9034	**70**	249	0.8	20	**CL070**		**B14**
(1400 min^{-1})							
2.2							**90**
TS90L24	**187**	100	2.0	7.5	**CL070**		**B5-B14**
(1400 min^{-1})	**140**	131	1.7	10	**CL070**		**B5-B14**
	93	189	1.2	15	**CL070**		**B5-B14**
	70	249	0.8	20	**CL070**		**B5-B14**
2.2							**100/112**
TS100L14	**187**	100	2.0	7.5	**CL070**		**B5-B14**
(1400 min^{-1})	**140**	131	1.7	10	**CL070**		**B5-B14**
	93	189	1.2	15	**CL070**		**B5-B14**
	70	249	0.8	20	**CL070**		**B5-B14**
3							**100/112**
N100LB4	**187**	137	1.5	7.5	**CL070**		**B5-B14**
(1400 min^{-1})	**140**	178	1.2	10	**CL070**		**B5-B14**
	93	258	0.9	15	**CL070**		**B5-B14**
4							**100/112**
N1124M4	**187**	182	1.1	7.5	**CL070**		**B5-B14**
(1400 min^{-1})	**140**	237	0.9	10	**CL070**		**B5-B14**

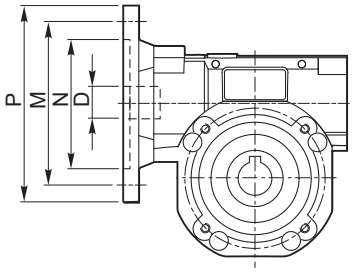
*: disponibile solo nella versione SMT trifase

*: *available in SMT 3 phases version only*

Motori applicabili

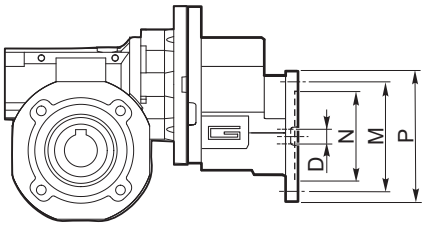
IEC Motor adapters

	IEC	N	M	P	D	i											
						5	7.5	10	15	20	25	30	40	50	60	80	100
CL026	**56B14**	50	65	80	9												
CL030	**63B5**	95	115	140	11												
	63B14	60	75	90													
	56B5	80	100	120	9	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**			
	56B14	50	65	80													
CL040	**71B5**	110	130	160	14												
	71B14	70	85	105													
	63B5	95	115	140	11	**B**	**B**	**B**	**B**	**B**	**B**	**B**	**B**				
	63B14	60	75	90													
	56B5	80	100	120	9	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**B**	**B**	**B**	**B**
	56B14	50	65	80													
CL050	**80B5**	130	165	200	19												
	80B14	80	100	120													
	71B5	110	130	160	14	**B**	**B**	**B**	**B**	**B**	**B**	**B**					
	71B14	70	85	105													
	63B5	95	115	140	11	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**BS**	**B**	**B**	**B**	**B**	
	63B14	60	75	90													
CL070	**100/112B5**	180	215	250	28												
	100/112B14	110	130	160													
	90B5	130	165	200	24		**B**	**B**	**B**	**B**							
	90B14	95	115	140													
	80B5	130	165	200	19		**BS**	**BS**	**BS**	**BS**	**B**	**B**	**B**				
	80B14	80	100	120													
	71B5	110	130	160	14						**BS**	**BS**	**BS**	**B**	**B**	**B**	**B**



Nota: flange Nema disponibili a richiesta
Note: *Nema flange available on demand*

CMP	IEC	N	M	P	D	i (i_1 x i_2)							
						60 (3x20)	**75** (3x25)	**90** (3x30)	**120** (3x40)	**150** (3x50)	**180** (3x60)	**240** (3x80)	**300** (3x100)
056/030	56 B14	50	65	80	9								
056/040						**B**	**B**	**B**	**B**				
063/040	63 B14	60	75	90	11								
063/050						**B**	**B**	**B**					
071/050	71 B14	70	85	105	14								
071/070						**B**	**B**	**B**	**B**				
080/070	80 B14	80	100	120	19								
090/070	90 B14 90 B5	95 130	115 165	140 200	24								



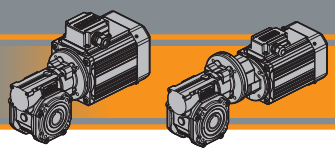
N.B.

Le aree evidenziate in grigio indicano l'applicabilità della corrispondente grandezza motore.

N.B. Grey areas indicate motor inputs available on each size of unit.

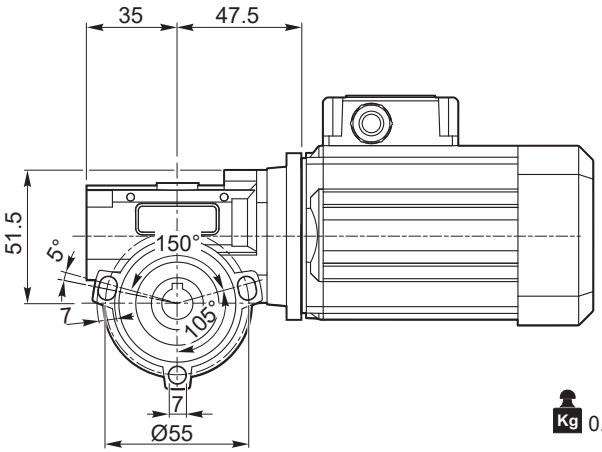
B/BS = Boccola di riduzione in acciaio

B/BS = Metal shaft sleeve

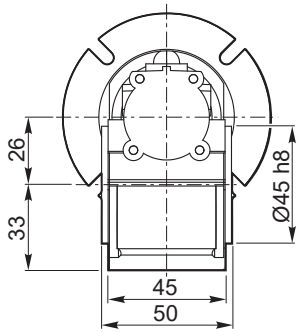


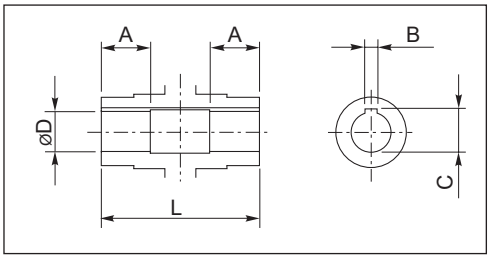
Dimensioni ***Dimensions***

CL 026 U



Kg 0.75*



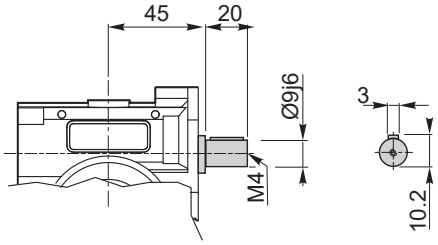


Albero lento cavo / *Hollow output shaft*

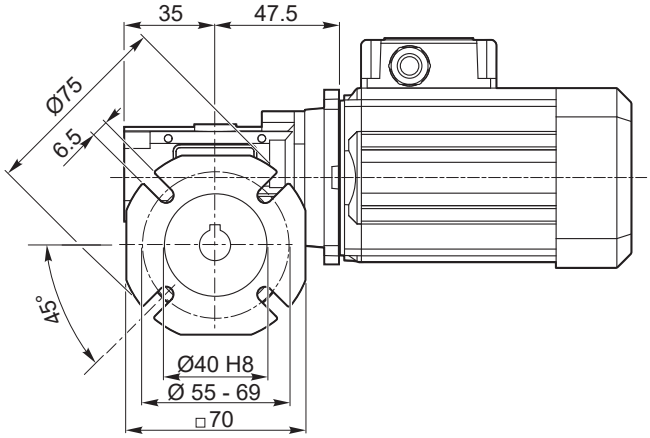
*: Peso stimato senza motore
*: *estimated weight without motor*

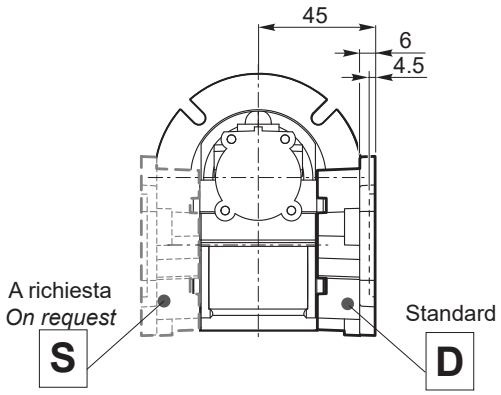
Grandezza *Size*	ø D H8	L	A	B	C
CM 026 (D14)	14	50	15	5	16.2
CM 026	12	50	15	4	13.8
CM 026 (D11)	11	50	15	4	12.8

CLIS 026 ..



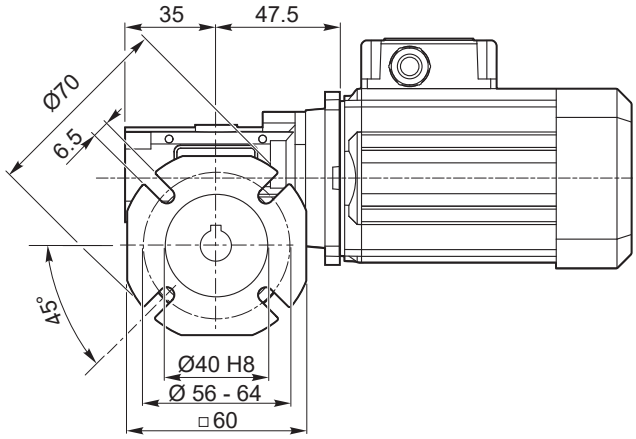
CL 026 F

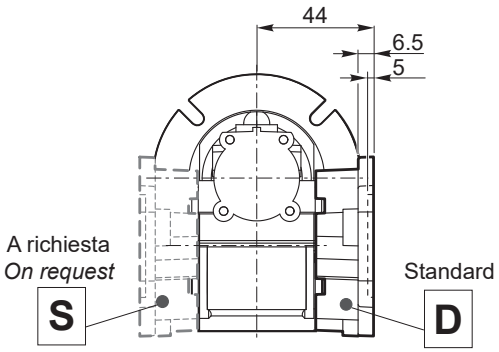




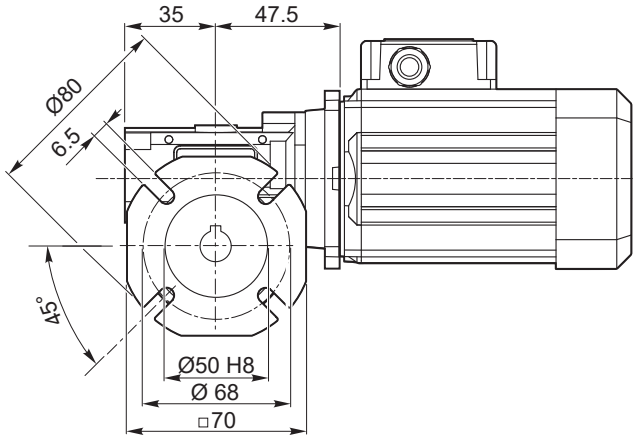
Dimensioni ***Dimensions***

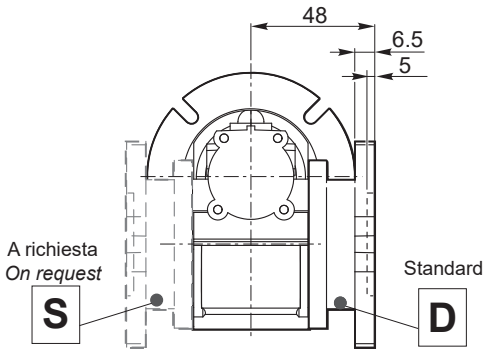
CL 026 F28



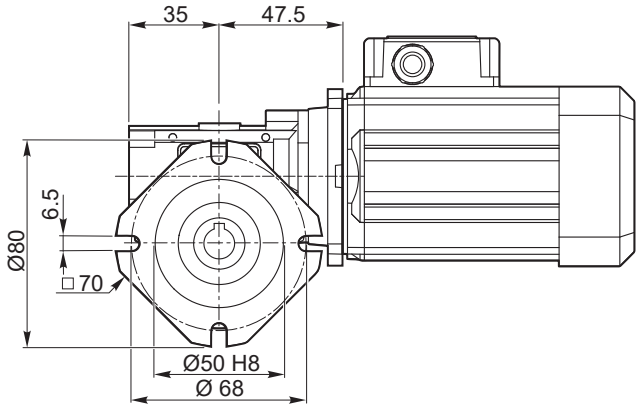


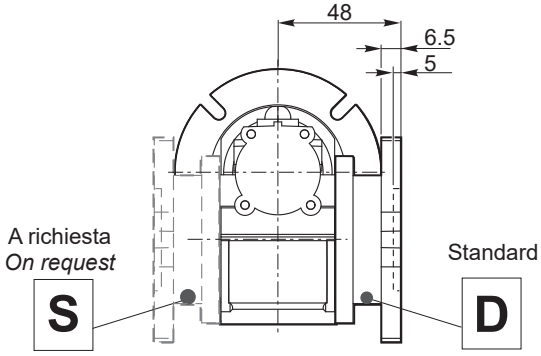
CL 026 F30

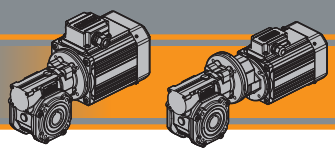




CL 026 F30C

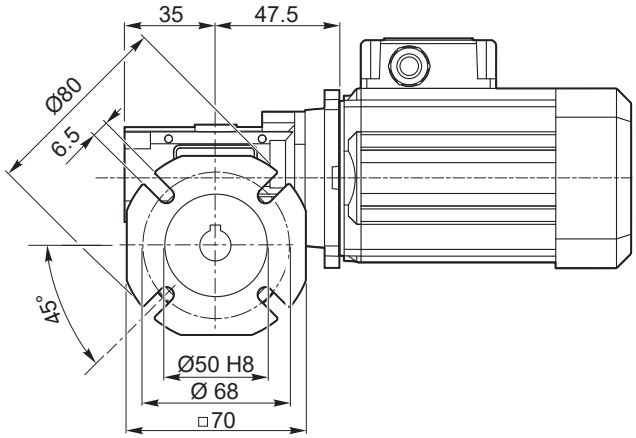


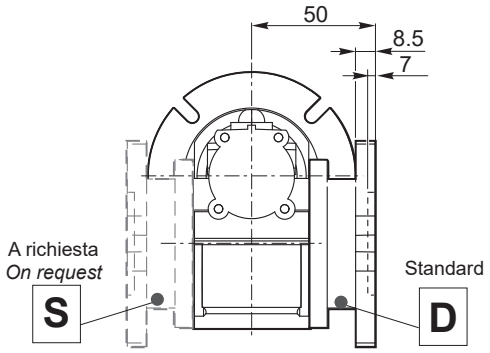




Dimensioni ***Dimensions***

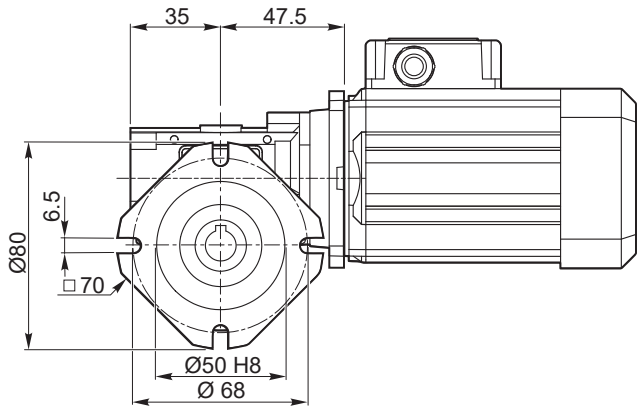
CL 026 F30S

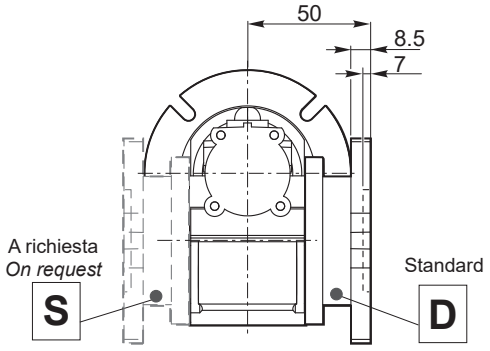




Nota: Esecuzione con flangia uscita F30 e spessore 2mm
Note: *Made with flange F30 and spacer with 2mm thickness*

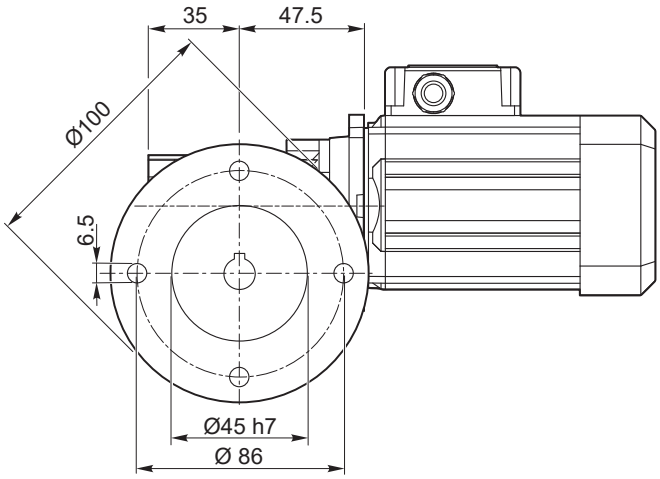
CL 026 F30SC

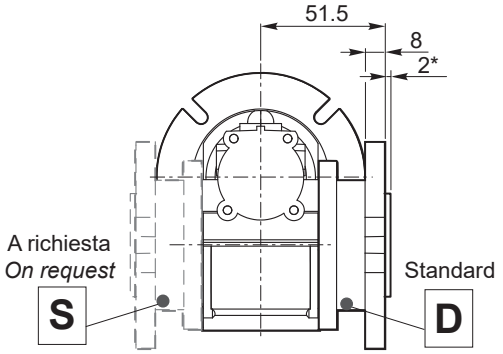




Nota: Esecuzione con flangia uscita F30C e spessore 2mm
Note: *MAde with flange F30C and spacer with 2mm thickness*

CL 026 F100

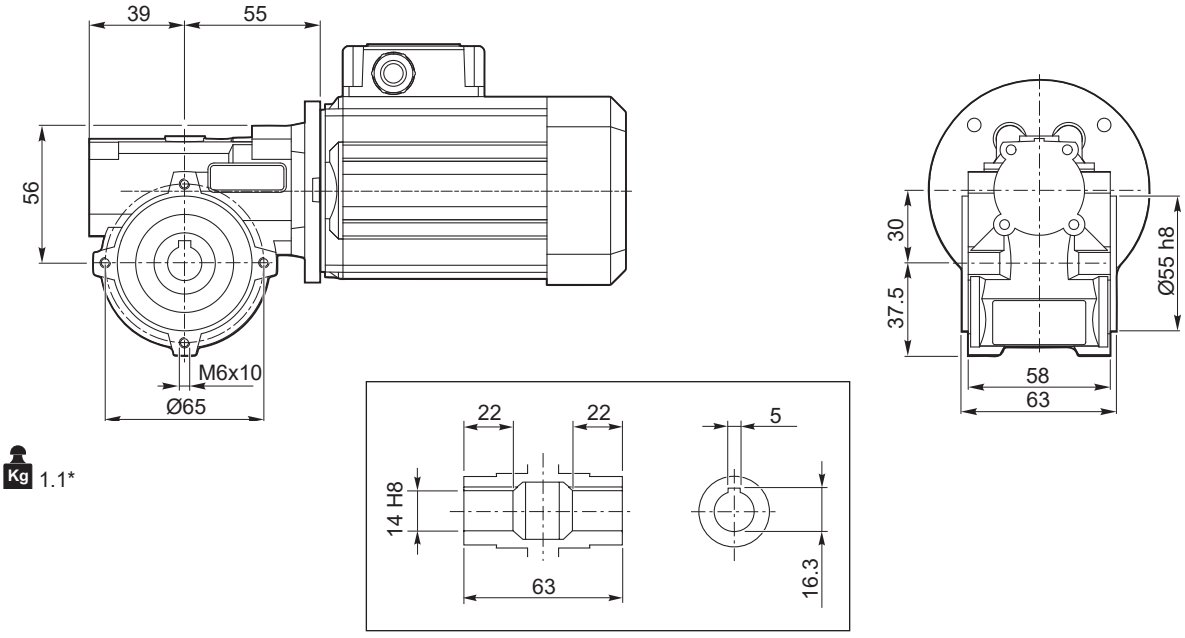




(*): Centraggio maschio
(*): *Male centering diameter*

Dimensioni ***Dimensions***

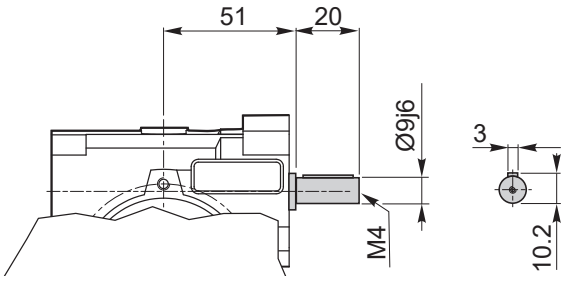
CL 030 U



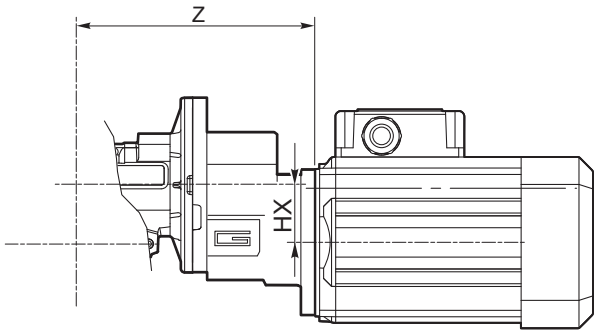
Kg 1.1*

Albero lento cavo / *Hollow output shaft*

CLIS 030 ..



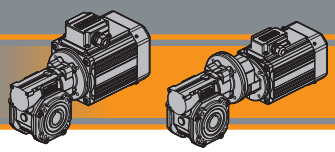
CLP 050/030...
CLP 056/030...



	HX	Z	Kg
056/030	30.5	124	2.0*

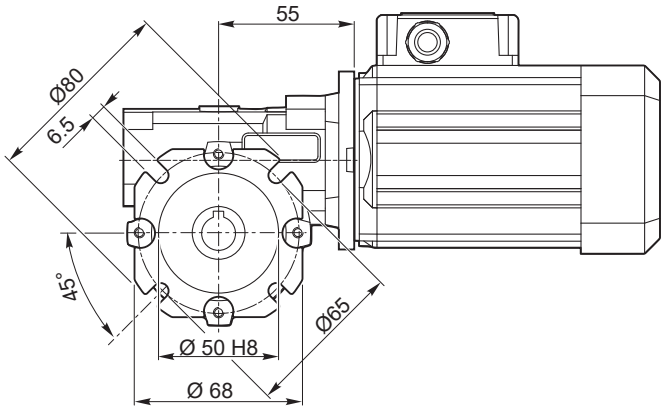
*: Peso stimato senza motore

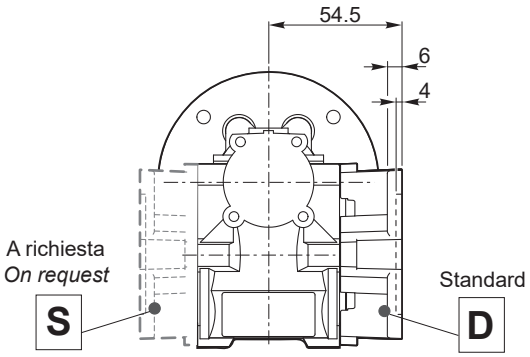
*: *estimated weight without motor*



Dimensioni ***Dimensions***

CL 030 F

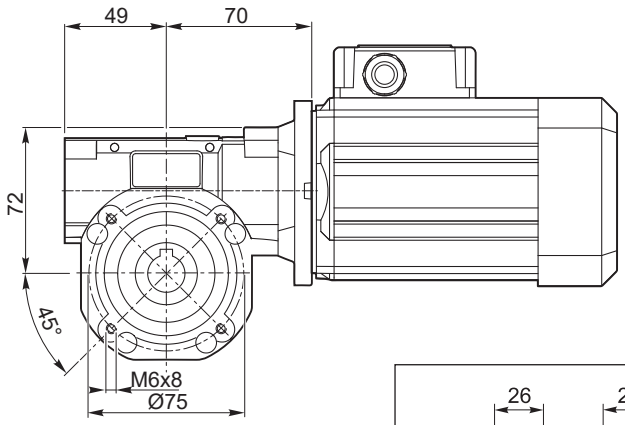


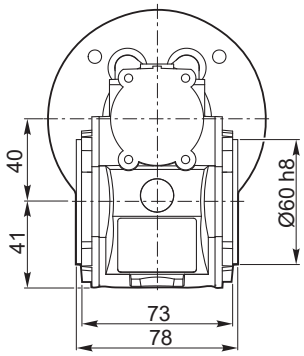


Nota: flange uscita disponibili anche per la serie CLP
Note: *output flange available for CLP series*

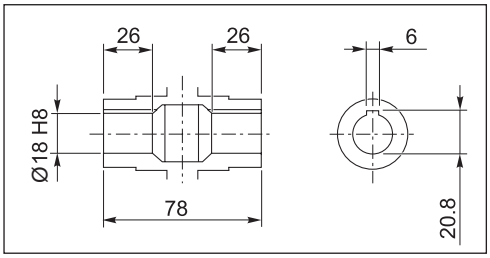
Dimensioni ***Dimensions***

CL 040 U



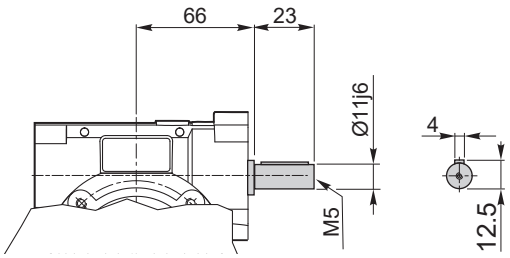


Kg 2.1*

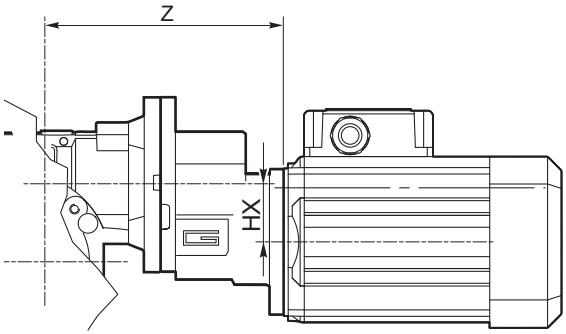


Albero lento cavo / *Hollow output shaft*

CLIS 040 ..



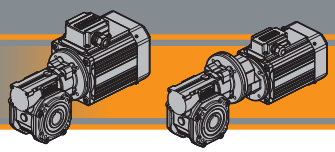
CLP .../040 ...U



	HX	Z	Kg
056/040	30.5	139	3.0*
063/040	30.5	142	3.1*

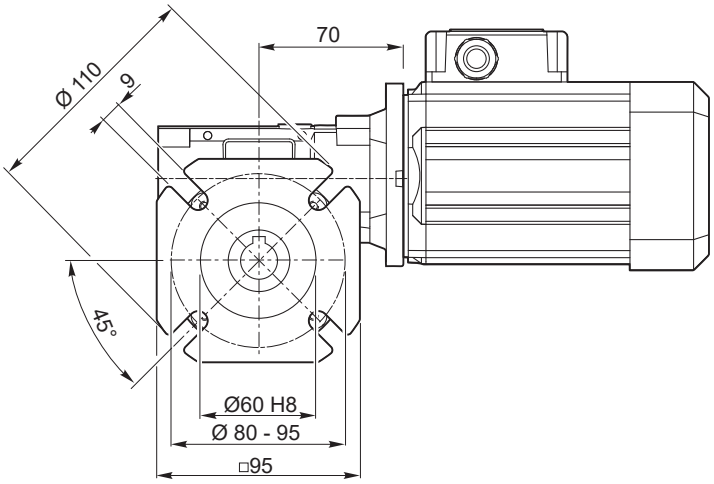
*: Peso stimato senza motore

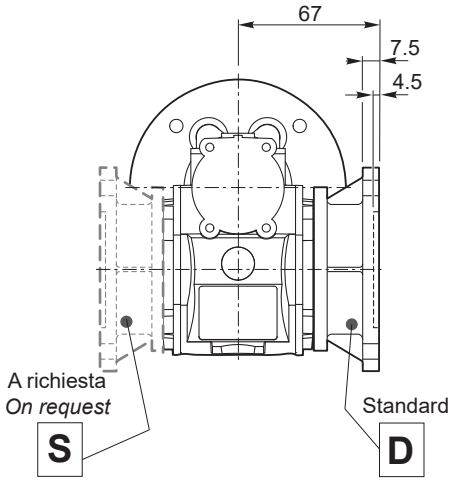
*: *estimated weight without motor*



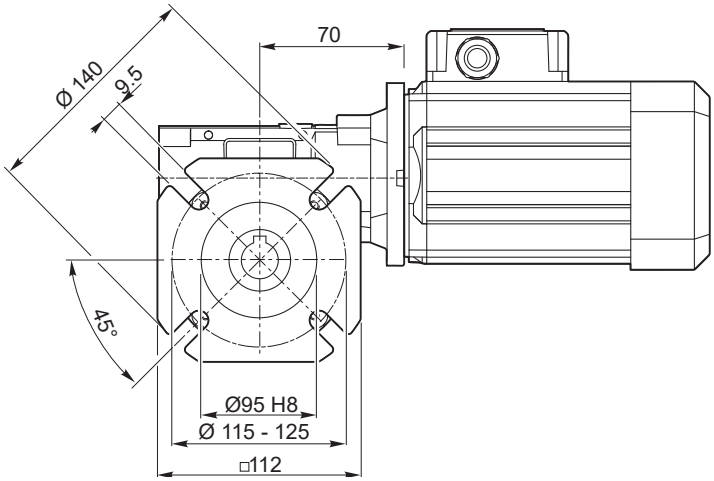
Dimensioni ***Dimensions***

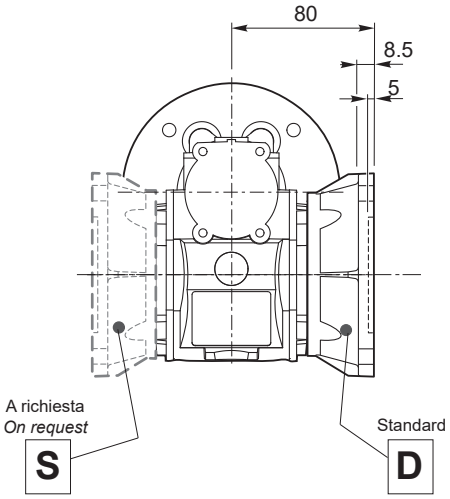
CL 040 F



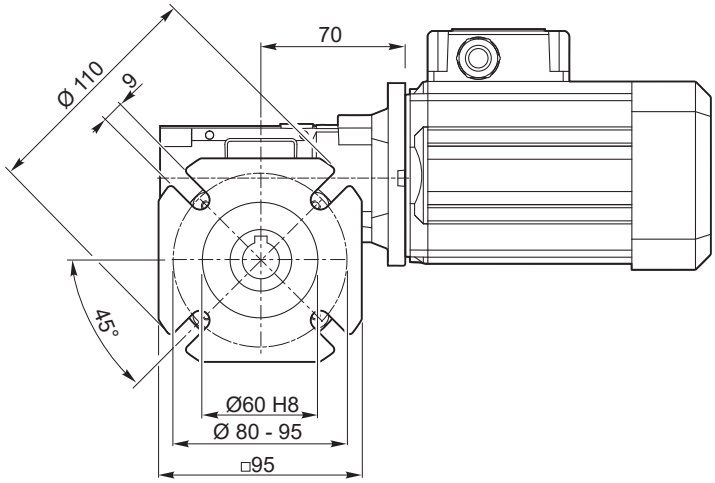


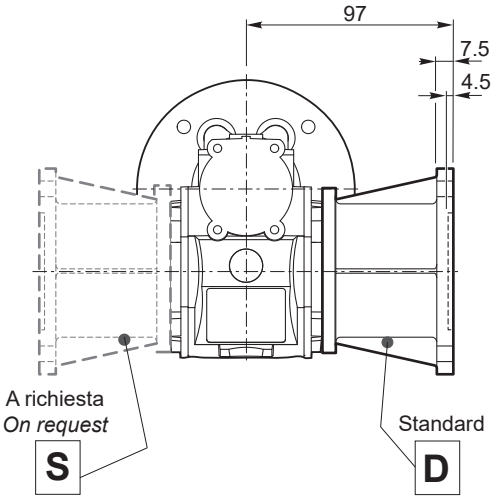
CL 040 FB





CL 040 FL

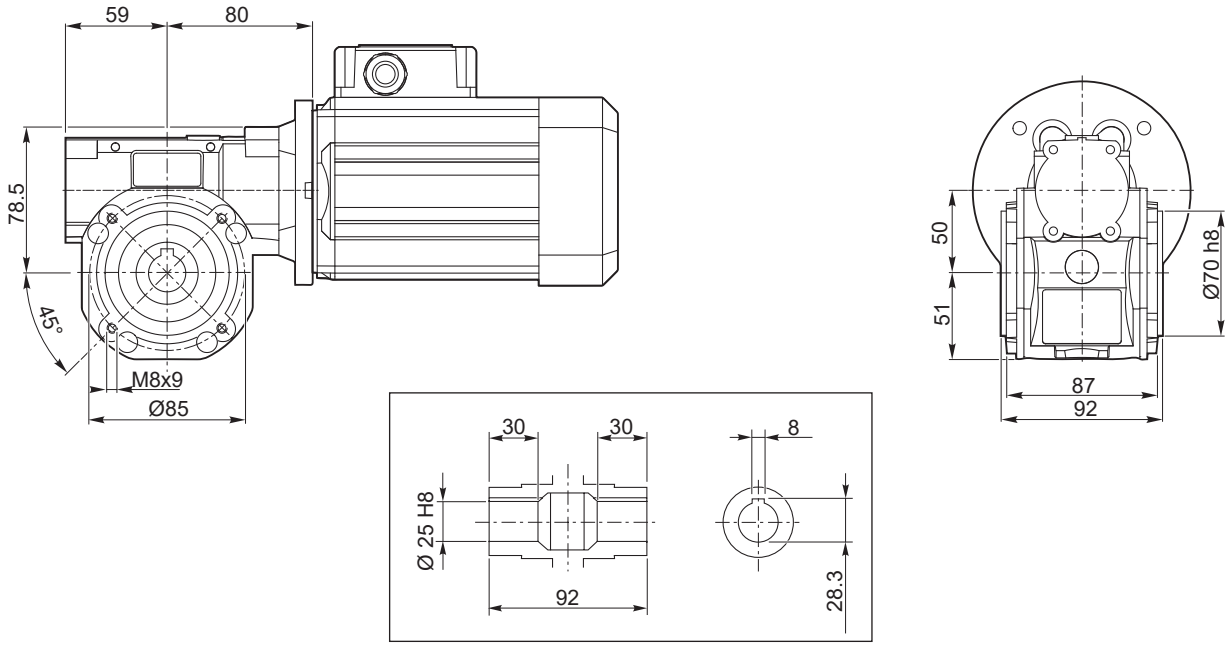




Nota: flange uscita disponibili anche per la serie CLP
Note: *output flange available for CLP series*

Dimensioni ***Dimensions***

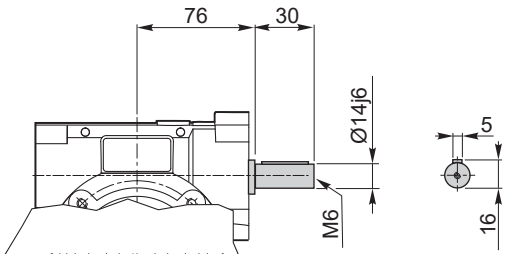
CL 050 U



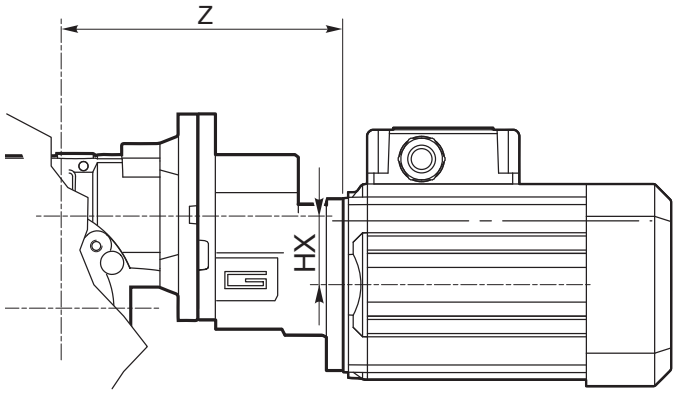
Kg 3.3*

Albero lento cavo / *Hollow output shaft*

CLIS 050 ..



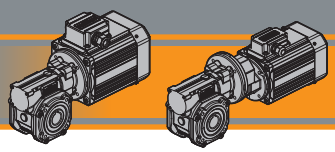
CLP .../050 ...U



	HX	Z	Kg
063/050	30.5	152	4.3*
071/050	41	169	5.3*

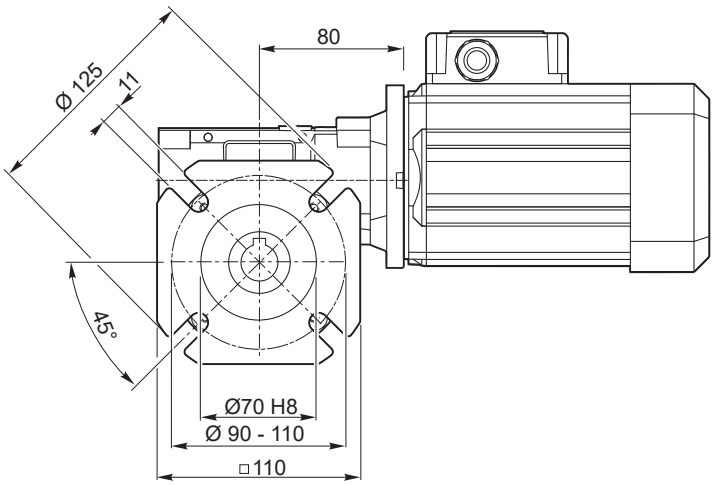
*: Peso stimato senza motore

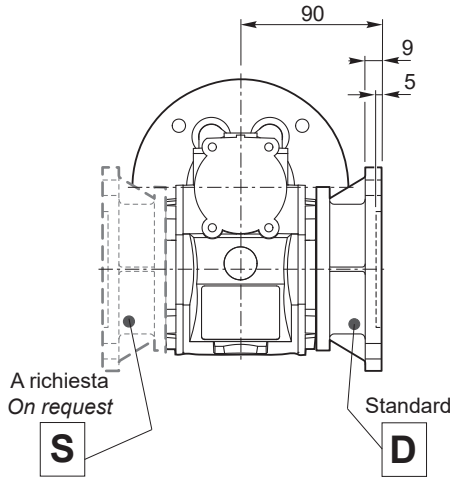
*: *estimated weight without motor*



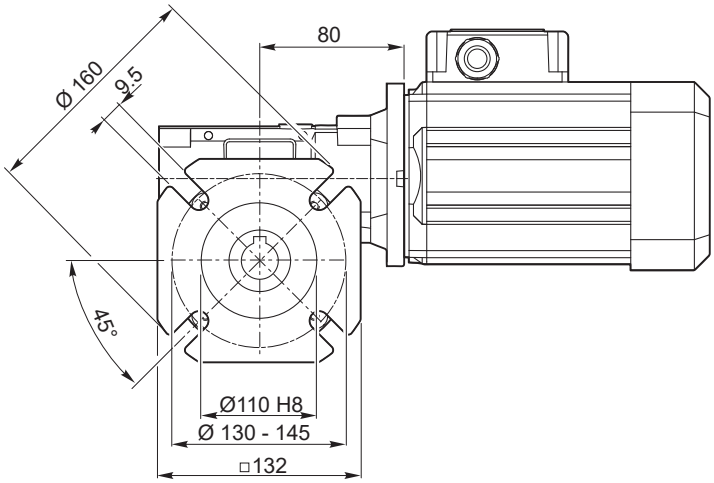
Dimensioni ***Dimensions***

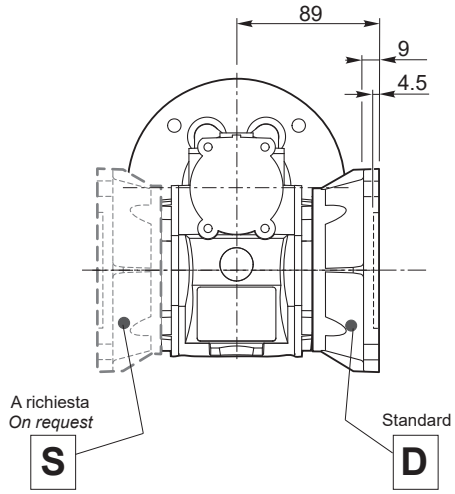
CL 050 F



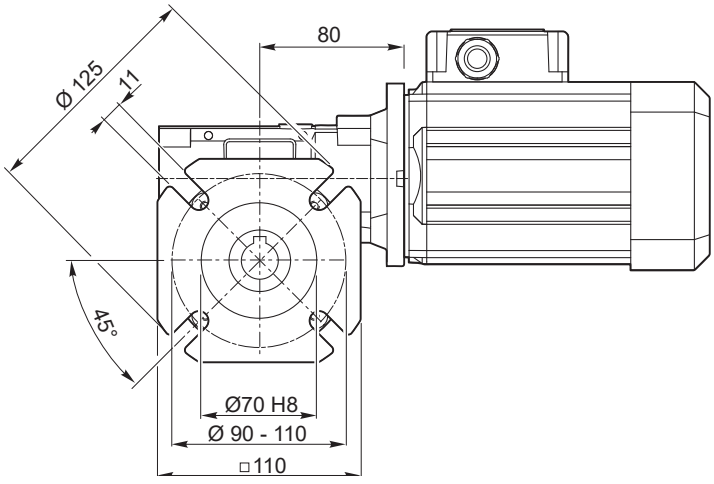


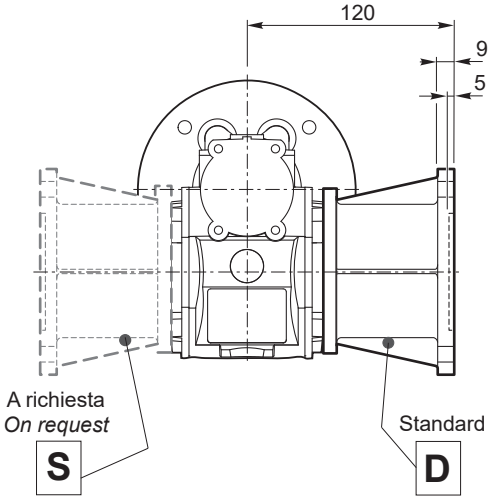
CL 050 FB





CL 050 FL

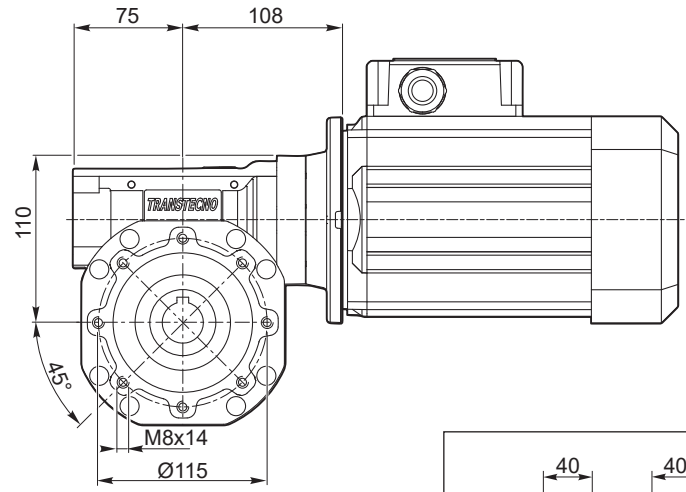


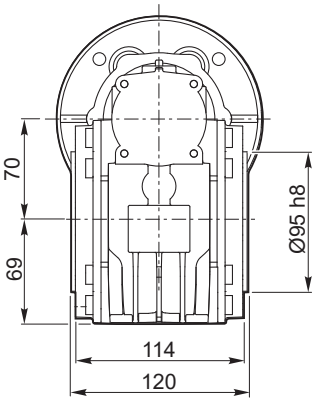


Nota: flange uscita disponibili anche per la serie CLP
Note: *output flange available for CLP series*

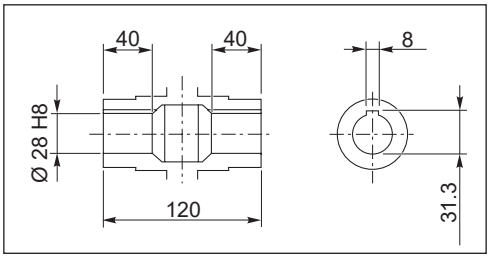
Dimensioni ***Dimensions***

CL 070 U



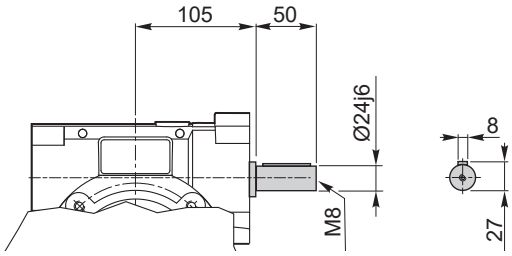


Kg 7.2*

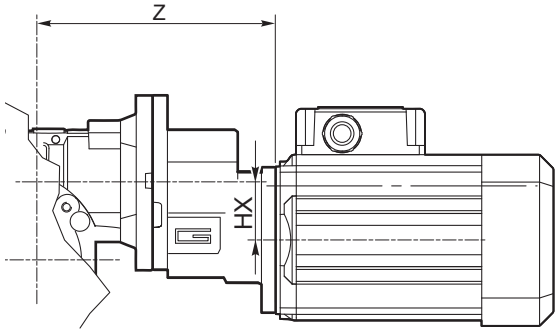


Albero lento cavo / *Hollow output shaft*

CLIS 070...



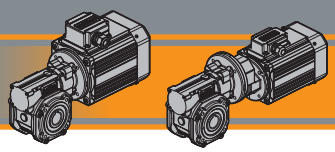
CLP .../070 ...U



	HX	Z	Kg
071/070	41	197	8.7*
080/070	41	208	9.5*
090/070	36.5	262	10.2*

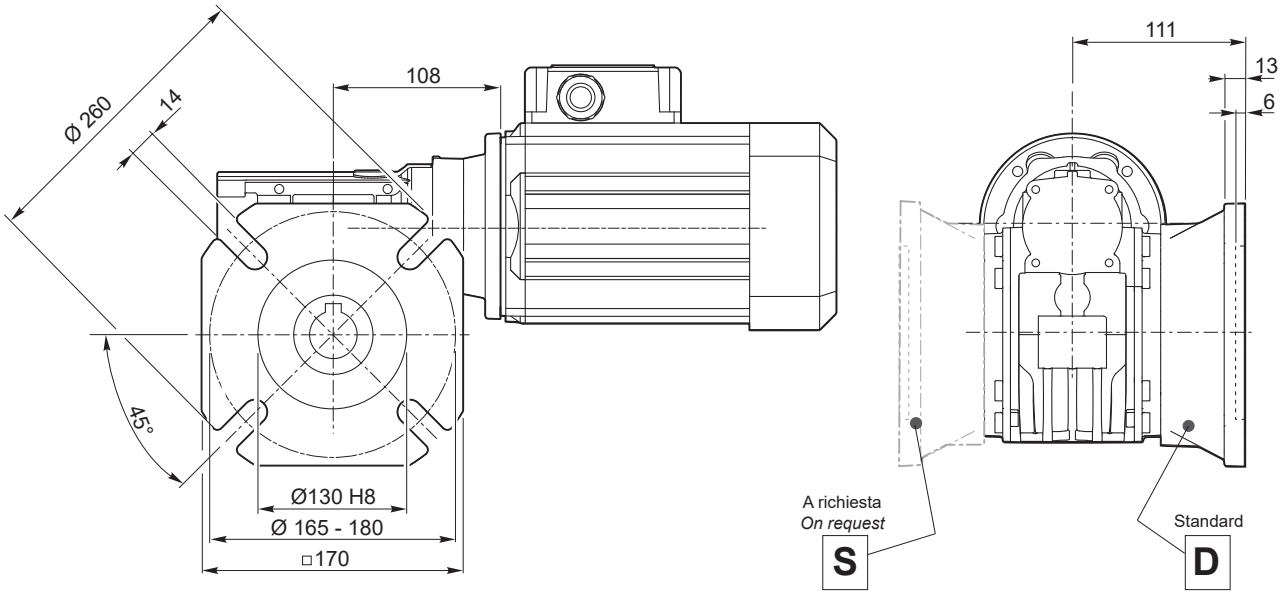
*: Peso stimato senza motore

**: estimated weight without motor*



Dimensioni ***Dimensions***

CL 070 F



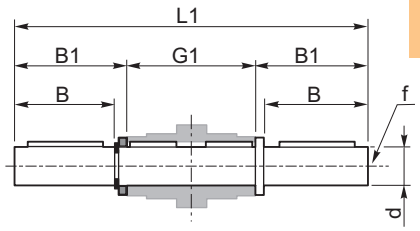
Nota: flange uscita disponibili anche per la serie CLP
Note: *output flange available for CLP series*

Accessori — *Accessories*

Albero lento semplice e doppio — ***Single and double output shaft***

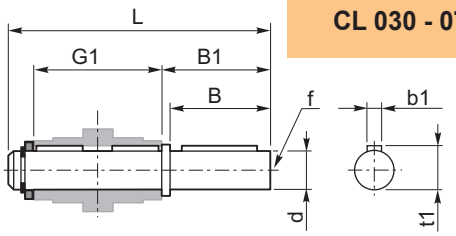
CL 030 - 070

DZ



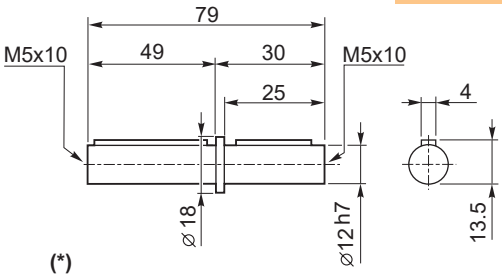
CL 030 - 070

SZ



CL	CLP	d h7	B	B1	G1	L	L1	f	b1	t1
030	056/030	14	30	32.5	63	102	128	M6	5	16
040	056/040 063/040	18	40	43	78	128	164	M6	6	20.5
050	063/050 071/050	25	50	53.5	92	153	199	M10	8	28
070	071/070 080/070 090/070	28	60	63.5	120	192	247	M10	8	31

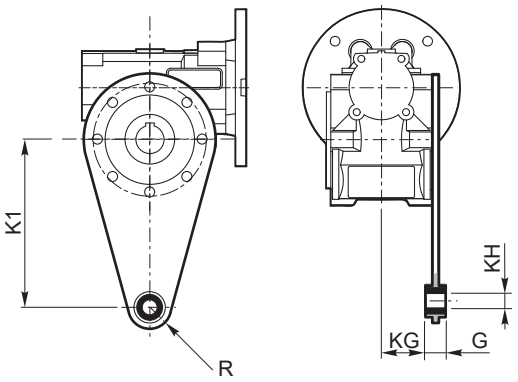
CL 026 (*)



(*)
Nota: disponibile solo per cavo uscita Ø12
Note: *available for output hollow shaft Ø12 only*

KIT - Braccio di reazione — *KIT - Torque arm*

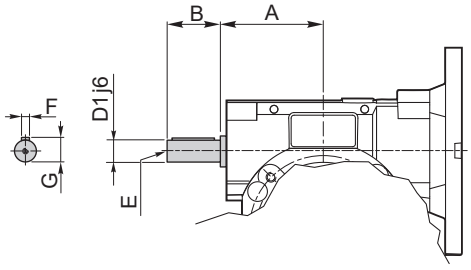
CL	CLP	K1	G	KG	KH	R
030	056/030	85	14	23	8	15
040	056/040 063/040	100	14	31	10	18
050	063/050 071/050	100	14	38	10	18
070	071/070 080/070 090/070	200	25	46.5	20	30



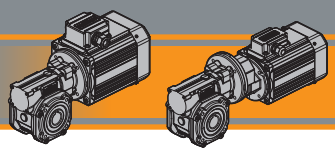
Opzioni — *Options*

VS - Vite sporgente / *Extended input shaft*

CL	CLP	A	B	D_1 j6	E	F	G
030	056/030	45	20	9	M4	3	10.2
040	056/040 063/040	53	23	11	M5	4	12.5
050	063/050 071/050	64	30	14	M6	5	16
070	071/070 080/070 090/070	84	40	19	M6	6	21.5



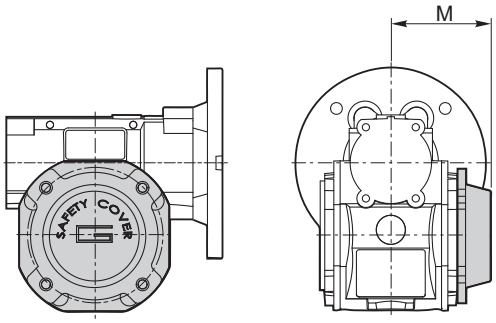
Costruito su richiesta
Built on request



Opzioni — *Options*

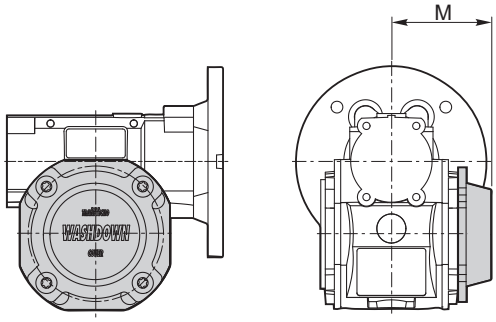
SC *- Safety Cover*

CL	CLP	M
030	056/030	47
040	056/040 063/040	54.5
050	063/050 071/050	62.5
070	071/070 080/070 090/070	75



WD *- Kit washdown cover*

CL	CLP	M
026*		37.5
030	056/030	48
040	056/040 063/040	55.5
050	063/050 071/050	63.5
070	071/070 080/070 090/070	76



(*)
Nota: Viti escluse dalla fornitura
Note: *Screws not provided*

TRANSTECNO®
the modular gearmotor

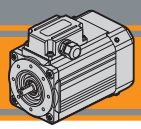
SM

SM

SM Alù

Motori elettrici asincroni CA
AC asynchronous electric motors

IP66 TRANSTECNO



Pag.
Page

Caratteristiche tecniche

Technical characteristics

I motori delle serie SMT ed SMM hanno le seguenti caratteristiche principali:

- Costruzione compatta
- Motorizzazioni in corrente alternata monofase e trifase
- Carcassa estrusa in alluminio anodizzato nero
- Motore elettrico AC con grado di protezione IP66
- Rumorosità e vibrazioni contenute
- Isolamento termico di classe F
- Flangia motore IEC B14
- Temperatura ambiente: -20°C / + 40°C
- Disponibili sia nella versione ventilata TEFC (servizio S1) che non ventilata TENV (servizio S3)
- Protezioni termiche PTO 150°C per le taglie 56, 63, 71, 80 e 90.
- SMT56, SMT63, SMT71, SMT80 e SMT90 adatti al funzionamento con alimentazione da inverter.
- SMT80 e SMT90 conformi alla classe di rendimento IE3.

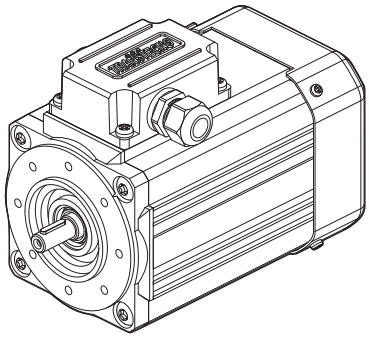
- Cava esagonale su albero motore lato NDE.
- Condensatore di marcia sempre cablato ad esclusione della taglia SMM50.
- La tolleranza di tensione è ±10% per tutti i motori ad esclusione della taglia 50 (±5%).

SMT and SMM motor range has the following main features:

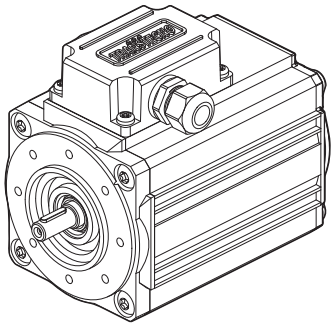
- *Compact design*
- *AC single phase and three phase motors available*
- *Black anodized extruded aluminium housing*
- *AC electric motor in IP66 protection Standard*
- *Low noise and vibrations*
- *Class F insulation Standard*
- *Motor flange IEC B14*
- *Ambient temperature: -20°C / +40°C*
- *Fan cooled TEFC (duty S1) and not ventilated TENV (duty S3) versions available*
- *PTO 150°C thermal protection for motor sizes 56, 63, 71, 80 and 90.*
- *SMT56, SMT63, SMT7, SMT80 and SMT90 are suitable for running with frequency converter.*
- *SMT80 and SMT90 in compliance to the Standard efficiency class IE3*

- *Motor shafthexagon socket on the NDE side.*
- *Running capacitor always connected, except for SMM50.*

- *The voltage tolerance is ±10% for all motors, except for size 50 (±5%).*



SM .. TEFC



SM .. TENV

IP66 TRANSTECNO

Designazione

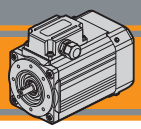
Classification

MOTORE TRIFASE / *THREE PHASE MOTOR*

SMT	63	2	4	0.18 kW	B14	230-400 V	50 Hz	TEFC
Tipo *Type*	Grandezza *Size*	Indicativo potenza *Power coefficient*	Poli *Poles*	Potenza *Power*	Forma costruttiva *Version*	Tensione *Voltage*	Frequenza *Frequency*	*Ventilazione Fan cooling*
SMT	Vedi tabelle *See tables*	**1-2-3-4-5**	**4**	**0.04 kW ... 2.2 kW**	**B14**	**230-400 V**	**50Hz**	**TEFC**
						460V	**60Hz**	**TENV**

MOTORE MONOFASE / *SINGLE PHASE MOTOR*

SMM	63	2	4	0.18 kW	B14	230 V	50 Hz	TEFC
Tipo *Type*	Grandezza *Size*	Indicativo potenza *Power coefficient*	Poli *Poles*	Potenza *Power*	Forma costruttiva *Version*	Tensione *Voltage*	Frequenza *Frequency*	*Ventilazione Fan cooling*
SMM	Vedi tabelle *See tables*	**1-2-3-4**	**4**	**0.04 kW ... 0.75 kW**	**B14**	**230V**	**50Hz**	**TEFC**
								TENV



Simbologia e formule — *Symbols and formulas*

P_n	[kW]	Potenza nominale	*Rated power*
I_n	[A]	Corrente nominale (a 400V)	*Rated current (at 400V)*
M_n	[Nm]	Coppia nominale	*Rated torque*
n_n	[rpm]	Velocità nominale	*Rated speed*
M_s / M_n		Rapporto coppia spunto / coppia nominale	*Ratio start torque / rated torque*
M_k / M_n		Rapporto coppia massima / coppia nominale	*Ratio max torque / rated torque*
I_s / I_n		Rapporto corrente di spunto / corrente nominale	*Ratio start current / rated current*
cosφ		Fattore di potenza al carico nominale	*Power factor at rated torque load*
η		Rendimento al carico nominale	*Efficiency at rated torque load*
Potenza *Power*	[HP]	Potenza [kW] x 1.341	*Power [kW] x 1.341*
Potenza resa P_n *P_n output power*	[kW]	Potenza assorbita x η	*Absorbed power x η*
Pot. assorbita *Absorbed power*	[kW]	$\frac{V \times I \times \cos\varphi}{1000}$ (monofase) $\frac{V \times I \times \sqrt{3} \times \cos\varphi}{1000}$ (trifase)	$\frac{V \times I \times \cos\varphi}{1000}$ *(singlephase)* $\frac{V \times I \times \sqrt{3} \times \cos\varphi}{1000}$ *(threephase)*
I_n (230 V)		In (400 V) x √3	*In (400 V) x √3*

Dati tecnici — *Technical data*

SMT Motori trifase / *SMT Three phase motors*

(230-400 V / 50 Hz) poli / *poles* 4

	TAGLIA *SIZE*	P_n [kW]	M_n [Nm]	n_n [min^{-1}]	I_n (400V) [A]	η %	cosφ	M_s/M_n	I_s/I_n	M_k/M_n	Servizio *Duty* TEFC	Servizio *Duty* TENV
	5014	0.04	0.30	1290	0.25	34.0	0.68	1.65	1.75	1.70	**S1**	S3 30%
	5024	0.06	0.44	1300	0.35	35.7	0.69	1.55	1.80	1.60		
	5034	0.09	0.65	1315	0.54	38.0	0.64	1.80	2.00	1.85		
	5044	0.12	0.87	1315	0.64	43.0	0.63	1.80	2.00	1.80		
	5624	0.09	0.64	1345	0.45	46.5	0.62	2.50	2.40	2.70		S3 50%
	5634	0.12	0.89	1300	0.45	52.0	0.74	1.90	2.40	1.90		
	5644	0.18	1.26	1360	0.69	59.0	0.65	2.50	3.00	2.60		
	5654	0.25	1.80	1330	0.93	59.0	0.66	2.50	2.80	2.60		
	6324	0.18	1.26	1360	0.69	57.0	0.66	2.50	2.90	2.50		
	6334	0.25	1.74	1375	0.94	62.0	0.64	2.80	3.00	2.80		
	6344	0.37	2.60	1360	1.24	65.3	0.66	2.70	3.00	2.70		
	7124	0.37	2.52	1400	1.10	67.9	0.72	2.75	4.20	2.75		S3 45%
	7134	0.55	3.76	1395	1.55	70.2	0.73	2.90	4.40	2.90		
	7144	0.75	5.09	1405	2.00	74.0	0.73	2.90	5.00	2.90		
IE3	**8024 IE3**	0.75	4.96	1440	1.94	82.5	0.68	3.6	6.00	3.70		S3 70%
IE3	**8034 IE3**	1.1	7.25	1450	2.91	84.1	0.65	4.0	6.80	4.40		
IE3	**9024 IE3**	1.5	10.0	1430	3.48	85.3	0.73	3.2	6.30	3.50		S3 75%
IE3	**9034 IE3**	2.2	14.9	1410	4.68	86.7	0.79	3.0	6.20	3.30		

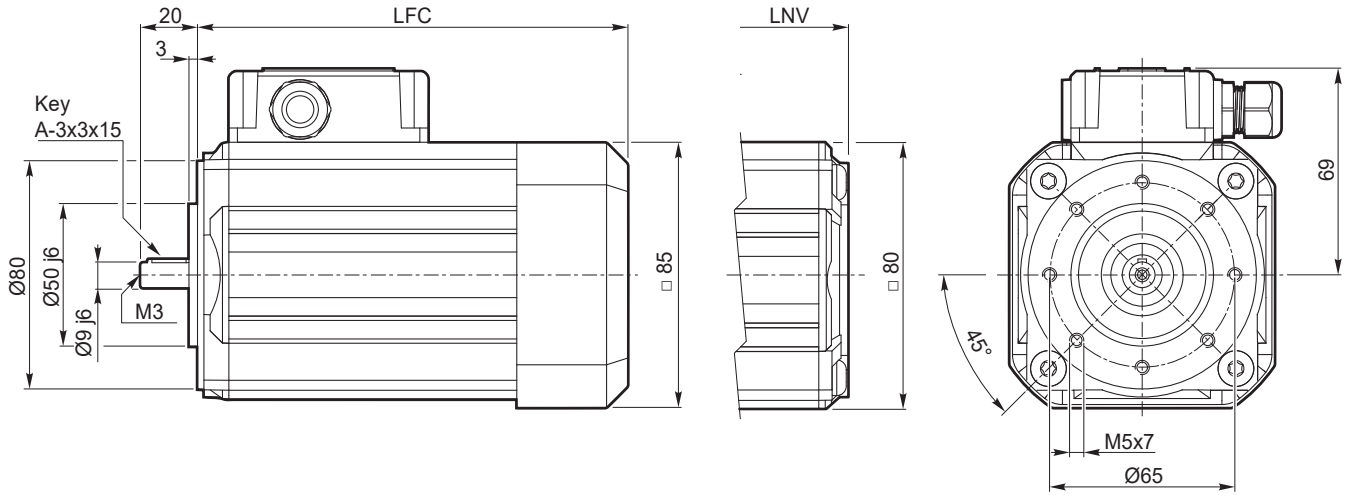
SMM Motori monofase / *SMM Single phase motors*

(230 V / 50 Hz) poli / *poles* 4

TAGLIA *SIZE*	P_n [kW]	M_n [Nm]	n_n [min^{-1}]	I_n (230V) [A]	η %	cosφ	M_s/M_n	I_s/I_n	M_k/M_n	Cond/cap [µF]	Servizio *Duty* TEFC	Servizio *Duty* TENV
5014	0.04	0.27	1390	0.60	33.4	0.88	0.74	1.60	1.55	8.0	**S1**	S3 30%
5024	0.06	0.42	1380	0.89	34.3	0.85	0.76	1.70	1.50	12.0		
5034	0.09	0.63	1375	1.10	40.0	0.89	0.80	1.70	1.45	16.0		
5624	0.09	0.63	1370	0.82	48.6	0.98	0.72	1.70	1.45	6.3		S3 50%
5634	0.12	0.83	1380	1.06	50.3	0.98	0.75	2.10	1.65	9.0		
5644	0.18	1.25	1375	1.50	53.8	0.97	0.70	2.20	1.58	12.5		
6324	0.18	1.33	1290	1.50	54.5	0.97	1.00	1.80	1.45	12.0		
6334	0.25	1.85	1290	1.95	56.8	0.98	0.93	1.90	1.50	16.0		
7124	0.37	2.72	1300	2.78	58.6	0.99	0.77	2.00	1.35	20.0		S3 45%
7134	0.55	3.95	1330	3.54	68.9	0.98	0.66	2.40	1.40	25.0		
8024	0.75	5.31	1350	4.93	67.4	0.98	0.67	2.50	1.54	35.0		S3 40%

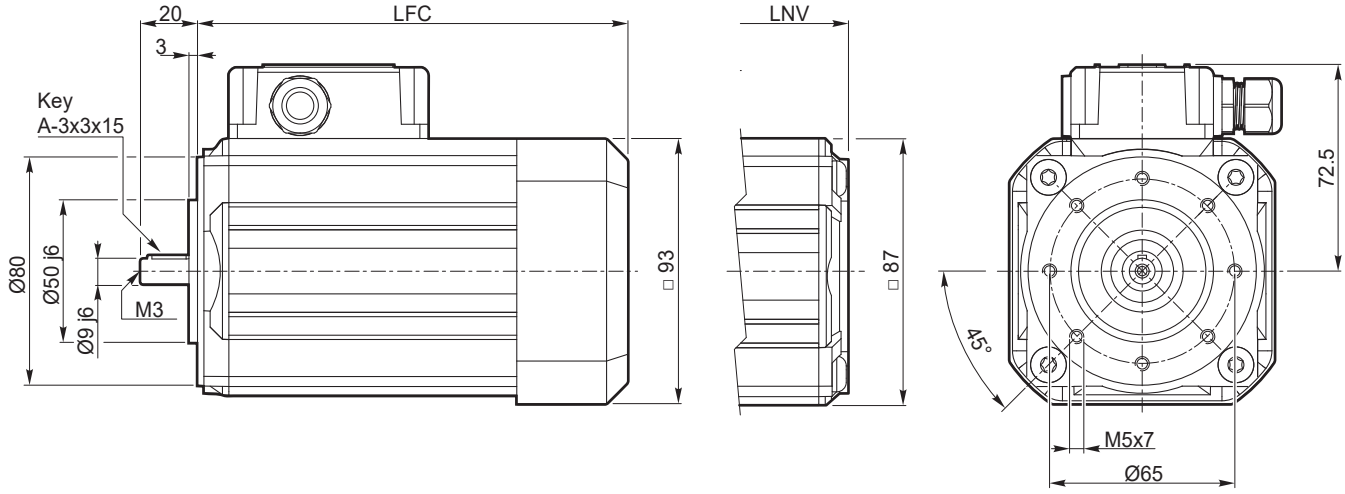
Dimensioni motori trifase *Three phase motors dimensions*

SMT50.. - B14 - TEFC / TENV

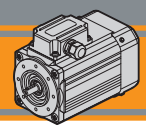


SMT	... TEFC		... TENV	
	LFC	Kg	LNV	Kg
5014	135.5	2.3	108.5	2.2
5024	150.5	2.7	123.5	2.6
5034	175.5	3.5	148.5	3.4
5044	200.5	4.2	173.5	4.1

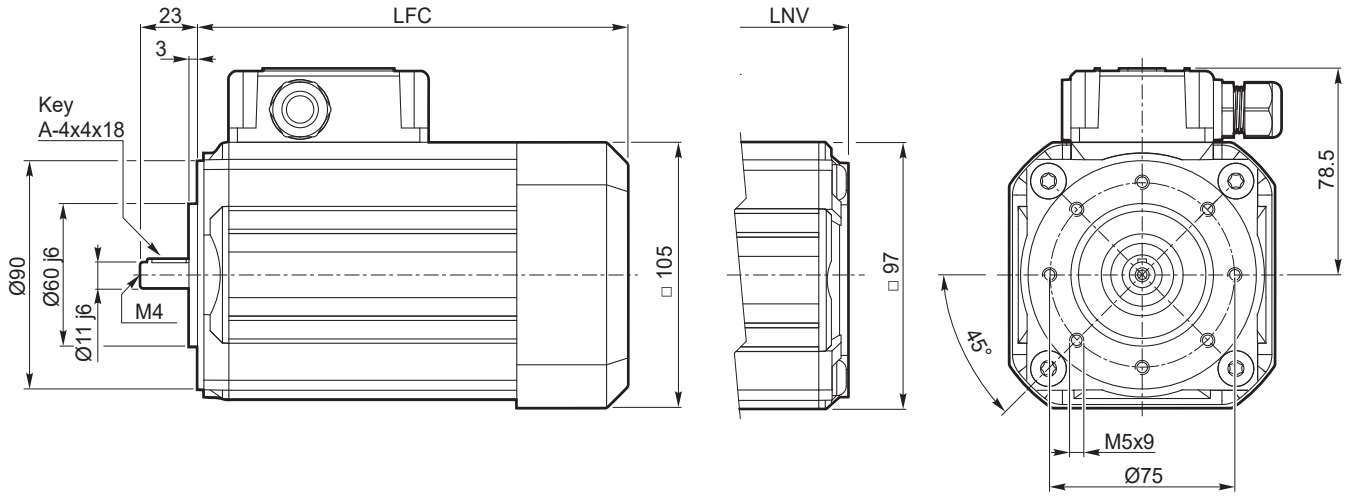
SMT56.. - B14 - TEFC / TENV



SMT	... TEFC		... TENV	
	LFC	Kg	LNV	Kg
5624	141	2.9	117	2.8
5634	151	3.2	127	3.1
5644	186	4.4	162	4.3
5654	206	5.1	182	5.0

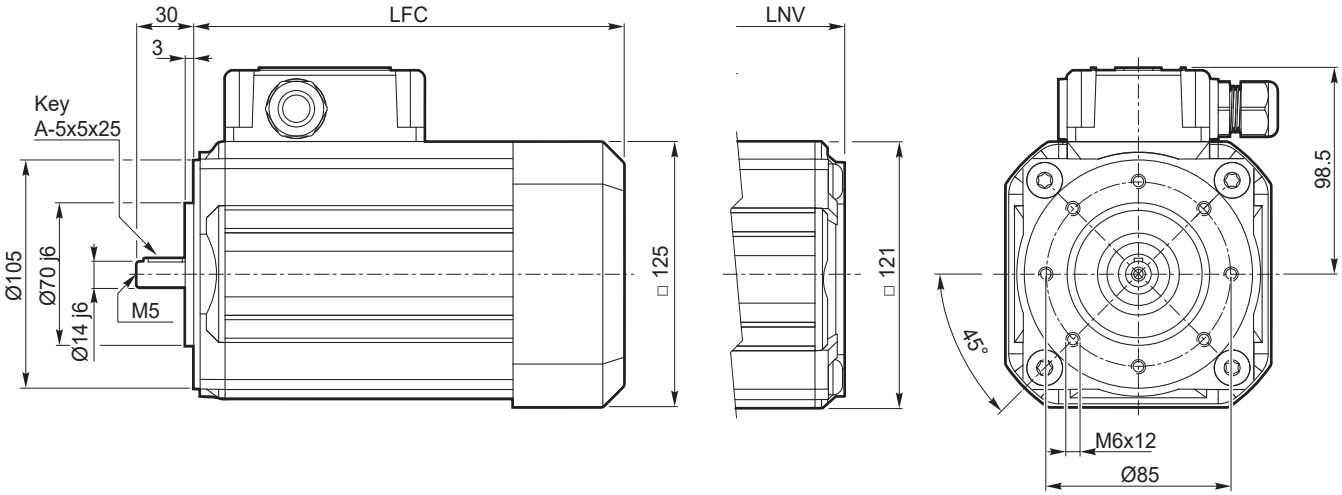


SMT63.. - B14 - TEFC / TENV



SMT	... TEFC		... TENV	
	LFC	Kg	LNV	Kg
6324	165.5	4.3	138.5	4.2
6334	180.5	5.0	153.5	4.9
6344	205.5	6.2	178.5	6.1

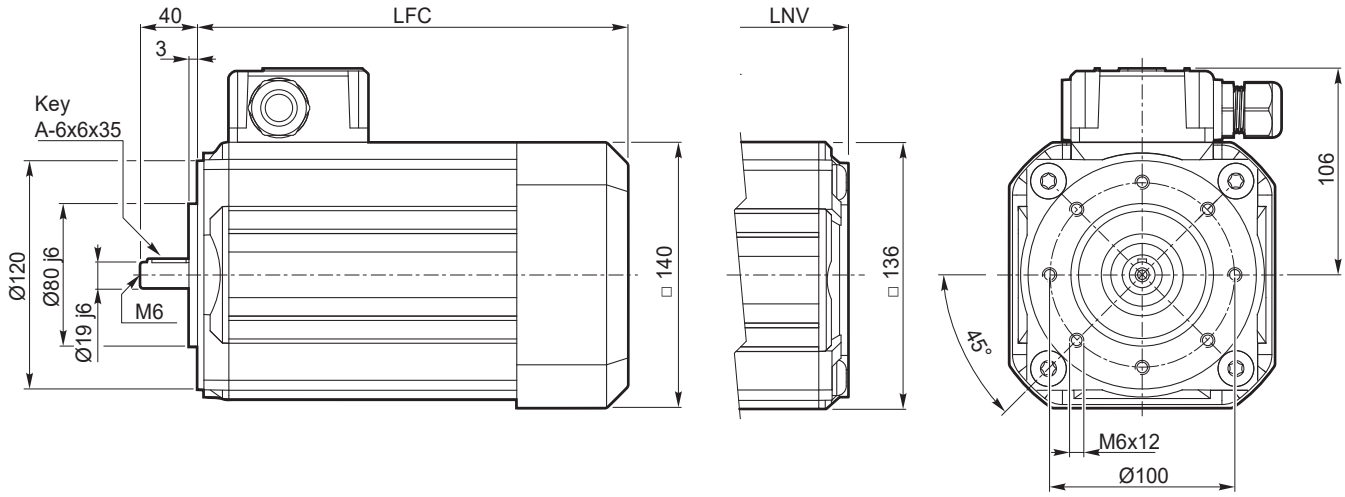
SMT71.. - B14 - TEFC / TENV



SMT	... TEFC		... TENV	
	LFC	Kg	LNV	Kg
7124	174	6.6	145.5	6.4
7134	189	7.7	160.5	7.5
7144	214	9.4	185.5	9.2

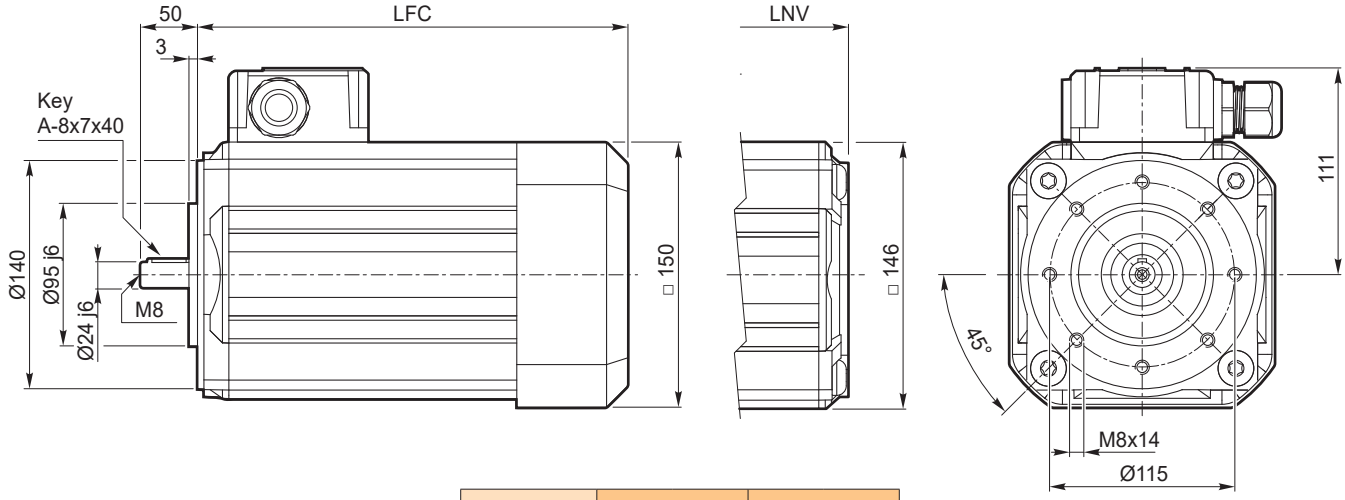
Dimensioni motori trifase *Three phase motors dimensions*

SMT80.. - B14 - TEFC / TENV

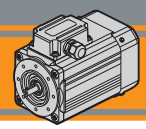


SMT	... TEFC		... TENV	
	LFC	Kg	LNV	Kg
8024	233	11.8	196	11.5
8034	283	16.8	246	15.8

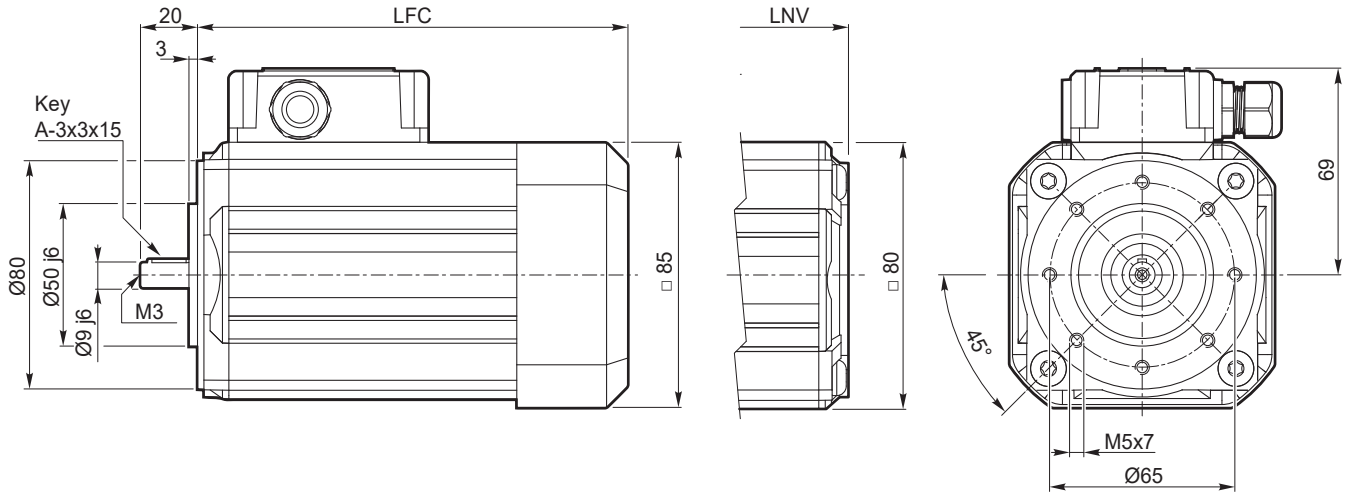
SMT90.. - B14 - TEFC / TENV



SMT	... TEFC		... TENV	
	LFC	Kg	LNV	Kg
9024	283	18.2	246	17.9
9034	313	21.5	276	21.2



SMM50.. - B14 - TEFC / TENV

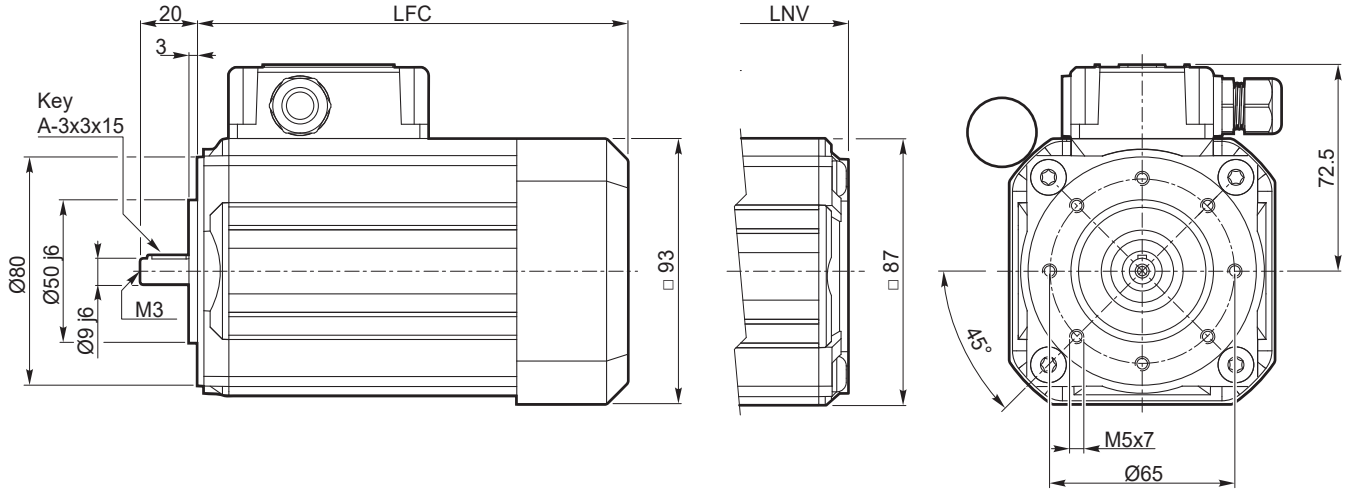


SMM	... TEFC		... TENV	
	LFC	Kg	LNV	Kg
5014	150.5	2.7	123.5	2.6
5024	175.5	3.5	148.5	3.4
5034	200.5	4.2	173.5	4.1

Nota:
il condensatore sarà fornito a corredo

Note:
the capacitor will be supplied separately

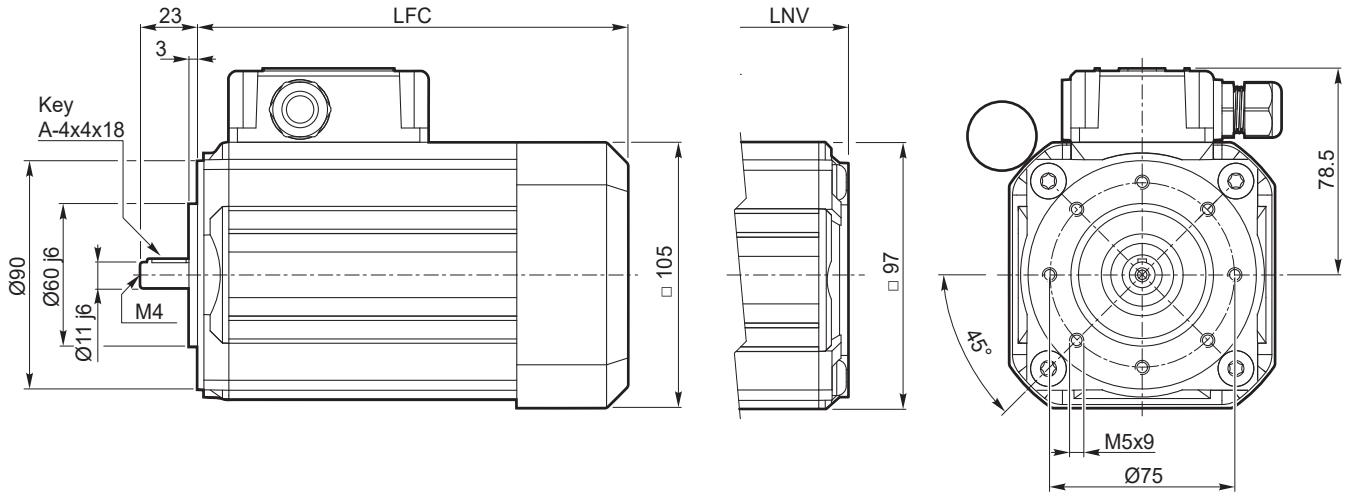
SMM56.. - B14 - TEFC / TENV



SMM	... TEFC		... TENV	
	LFC	Kg	LNV	Kg
5624	151	3.3	127	3.2
5634	171	3.9	147	3.8
5644	206	5.0	182	4.9

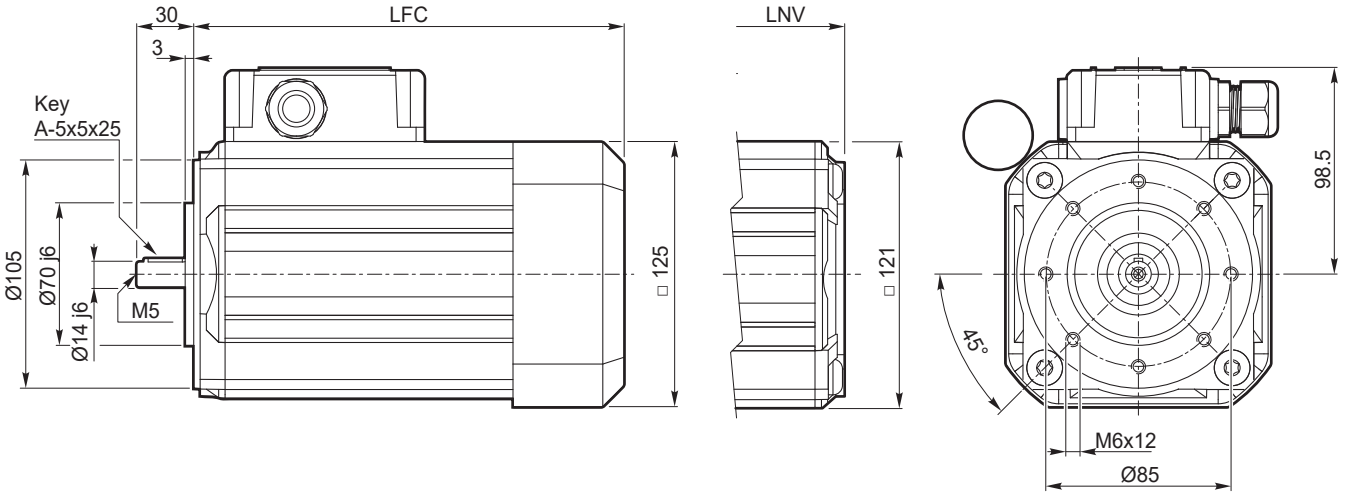
Dimensioni motori monofase *Single phase motors dimensions*

SMM63.. - B14 - TEFC / TENV

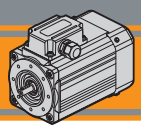


SMM	... TEFC		... TENV	
	LFC	Kg	LNV	Kg
6324	180.5	5.1	153.5	5.0
6334	205.5	6.2	178.5	6.1

SMM71.. - B14 - TEFC / TENV

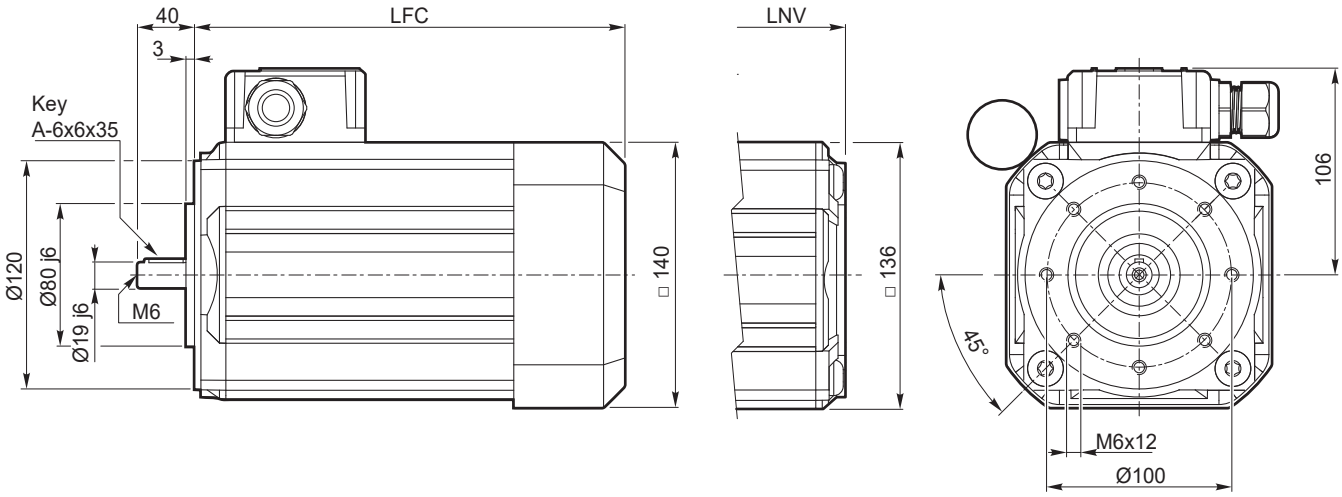


SMM	... TEFC		... TENV	
	LFC	Kg	LNV	Kg
7124	189	7.3	160.5	7.1
7134	214	9.2	185.5	9.0



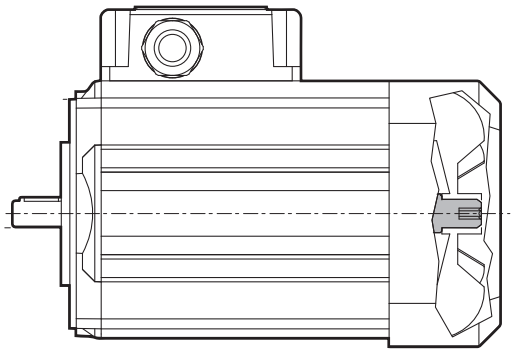
Dimensioni motori monofase — *Single phase motors dimensions*

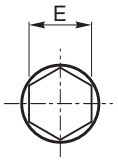
SMM80.. - B14 - TEFC / TENV



SMM	... TEFC		... TENV	
	LFC	Kg	LNV	Kg
8024	233	11.8	196	11.5

Cava esagonale — *Hexagonal socket*





Esagono / *Hexagon*

SM..	E
50	4
56	
63	
71	6
80	
90	

Nota:

Installare a monte dell'alimentazione un dispositivo che assicuri la disconnessione della rete omnipolare, durante le operazioni di rotazione manuale è obbligatorio l'utilizzo di tale sezionatore.

Il quadro elettrico del motore deve essere lucchettabile al fine di evitare il riarmo non previsto alla rete elettrica.

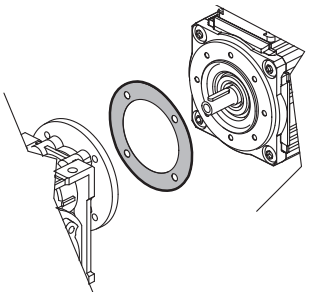
E' severamente vietata la messa in servizio del motore elettrico senza copriventola opportunamente montata.

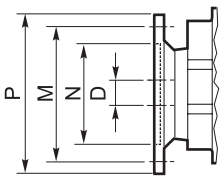
Note:

An omnipolar cut-off device must be fitted upstream of the power supply; the use of this device is mandatory during manual rotation operations.

The switchgear for the motor must be padlockable in order to prevent the power supply from being accidentally reset. It is strictly prohibited to put the electric motor into service if the fan cover is not fitted.

Opzione guarnizione CA — *Rubber gasket option*





Dimensioni IEC / *IEC Dimensions*					
	56 B14	**63 B14**	**71 B14**	**80 B14**	**90 B14**
N	50	60	70	80	95
M	65	75	85	100	115
P	80	90	105	120	140
D	**9**	**11**	**14**	**19**	**24**

Grado di protezione IP — *IP protection rating*

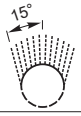
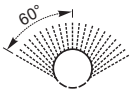
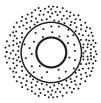
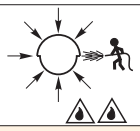
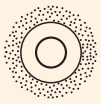
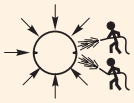
Indica il grado di isolamento meccanico del corpo motore.
1ª cifra protezione alla penetrazione di corpi solidi.

2ª cifra protezione contro la penetrazione d'acqua.

IP protection rating indicates the degree of mechanical insulation of the motor casing.

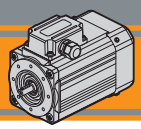
The 1st figure indicates the level of protection against the intrusion of solid matter.

The 2nd figure indicates to which degree the motor is waterproof.

IP		Definizione / *Description*	IP		Definizione / *Description*
0		Non protetto / *No protection*	**0**		Non protetto / *No protection*
1		Protetto da corpi solidi superiori a Ø 50 mm. *Protected against solid matter (over Ø 50 mm).*	**1**		Protetto contro la caduta verticale di gocce d'acqua. *Protected against drops of water falling vertically.*
2		Protetto da corpi solidi superiori a Ø 12 mm. *Protected against solid matter (over Ø 12 mm).*	**2**		Protetto contro la caduta verticale di gocce d'acqua con inclinazione max di 15°. *Protected against drops of water falling up to 15°.*
3		Protetto da corpi solidi superiori a Ø 2.5 mm. *Protected against solid matter (over Ø 2.5 mm).*	**3**		Protetto contro la pioggia. *Rain proof.*
4		Protetto da corpi solidi superiori a Ø1 mm. *Protected against solid matter (over Ø1 mm).*	**4**		Protetto contro gli spruzzi. *Splash proof.*
5		Protetto contro la polvere. *Dust protected.*	**5**		Protetto contro getti d'acqua. *Water jet proof.*
6		Totalmente protetto contro la polvere. *Fully dust tight.*	**6**		Protetto dalle ondate. *Waveproof.*
7		N.A.	**7**		Protetto contro immersione. *Immersion up to 1 metre.*
8		N.A.	**8**		Protetto contro immersione/sommersione prolungata. *Immersion beyond 1 metre.*

Normative di riferimento — *Reference Standards*

	Europe EN	World IEC	Italy CEI
Requisiti genarali per macchine elettriche ***General requirements electrical machines***	EN 60034-1:2010	*IEC 60034-1:2010*	*CEI EN 60034-1:2010*
Classificazione del grado di protezione ***Classification degree of protection provided by enclosures***	EN 60034-5:2001	*IEC 60034-5:2001*	*CEI EN 60034-5:2001*
Sistema di raffreddamento ***Cooling system***	EN 60034-6:1993	*IEC 60034-6:1993*	*CEI EN 60034-6:1993*
Modalità di montaggio ***Mounting arrangements***	EN 60034-7:1993	*IEC 60034-7:1993*	*CEI EN 60034-7:1993*



Tipi di servizi IEC

IEC duty cycles

Il servizio di un motore indica il tipo di utilizzo e la gravosità del ciclo di lavoro.

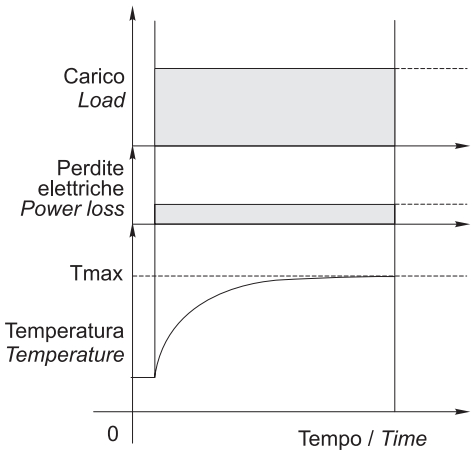
The duty cycle of a motor indicates its use and running cycle.

Grafico servizi più comuni

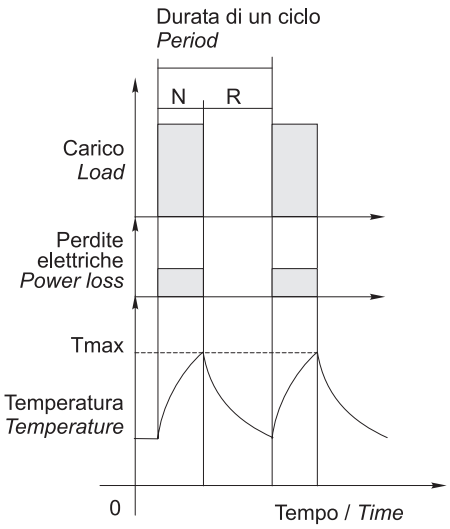
Most common duty cycles diagram

N = funzionamento / *run*
R = riposo / *rest*

S1



S2/S3



NOTA: Lo stesso motore può essere usato per cicli e servizi diversi, con l'unica limitazione che la temperatura interna non superi mai la Tmax stabilita dalla classe di isolamento termico del motore.

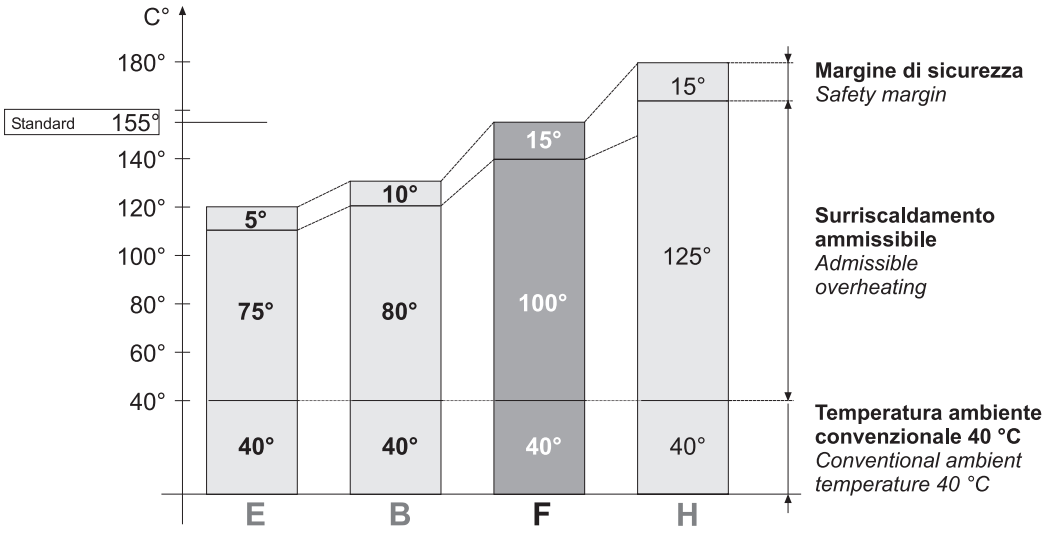
NOTE: The same motor can run under all duty services, limitation is due to internal temperature that must not override Tmax stated by motor thermal class.

Classe di isolamento termico — *Insulation class*

La classe termica indica il grado di resistenza alla temperatura interna, nel punto più caldo (avvolgimenti).
Isolamento termico classse F.

Thermal insulation class indicates the level of thermal protection measured at the hottest point inside the motor (windings).
Thermal insulation class F.

Classe *Class*	Massima temperatura interna Max. *windings temp.*
E	120°C
B	130°C
F	155°C
H	180°C



Serie SM - Funzionamento in ambiente 60 Hz — *Series SM - 60 Hz line power supply*

Velocità, coppia e potenza nominale nel funzionamento a 60 Hz varieranno come da tabella:

Speed, torque and rated power in 60 Hz operation is shown in the following table:

	50 Hz	60 Hz
400 V	Vedi dati tecnici / *see technical data* II3	Velocità / *speed* ≈ + 20% Coppia / *torque* ≈ -20% Potenza / *power* ≈ invariata / *the same*
480 V	**Non permesso / *not allowed***	Velocità / *speed* ≈ + 20% Coppia / *torque* ≈ invariata / *the same* Potenza / *power* ≈ + 20%

Tabella pressacavi — *Table of cable glands data*

Serie SMT / *SMT Series*

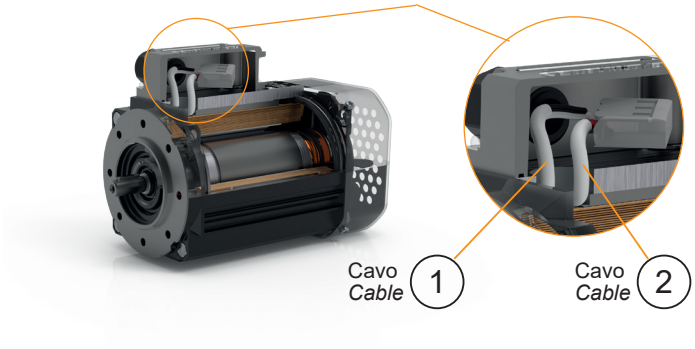
TAGLIA *SIZE*	Pressacavo *Cable gland*
50 / 56 / 63	M16x1.5
71 / 80 / 90	M20x1.5

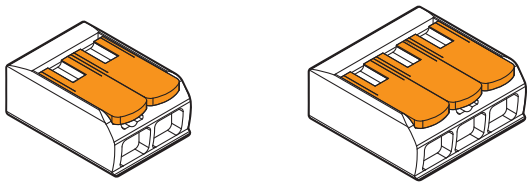
Serie SMM / *SMM Series*

TAGLIA *SIZE*	Pressacavo *Cable gland*
50 / 56 / 63	M16x1.5
71 / 80	M20x1.5

Connessioni e collegamenti — *Connection diagram*

Riferimenti — *References*

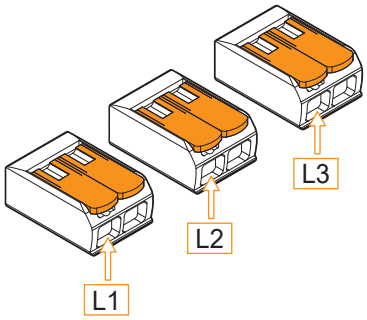




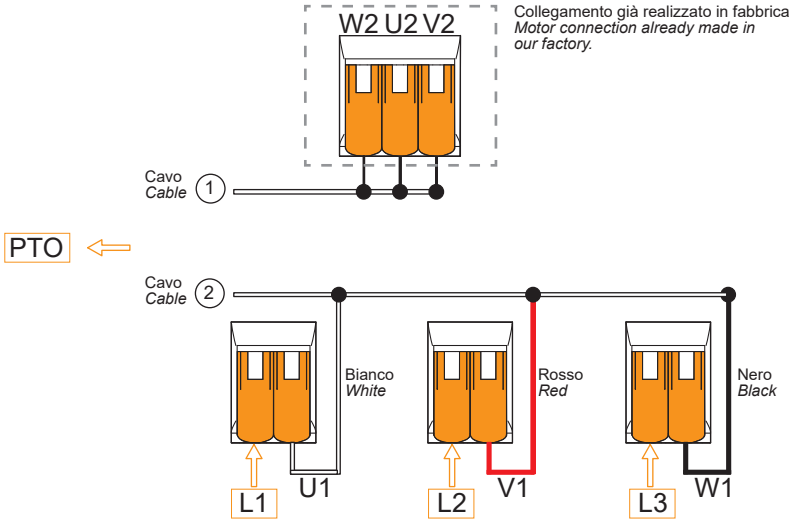
Morsetto di collegamento a leva a 2 e 3 poli
Splicing connector with lever2 - and 3 - pin.

400/460 V - Trifase / *three phase*

Collegamento a stella / *Star connection*

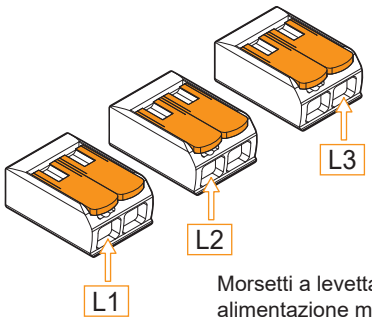


Morsetti a levetta liberi per alimentazione motore
Splicing connector with free-lever for the motor power source



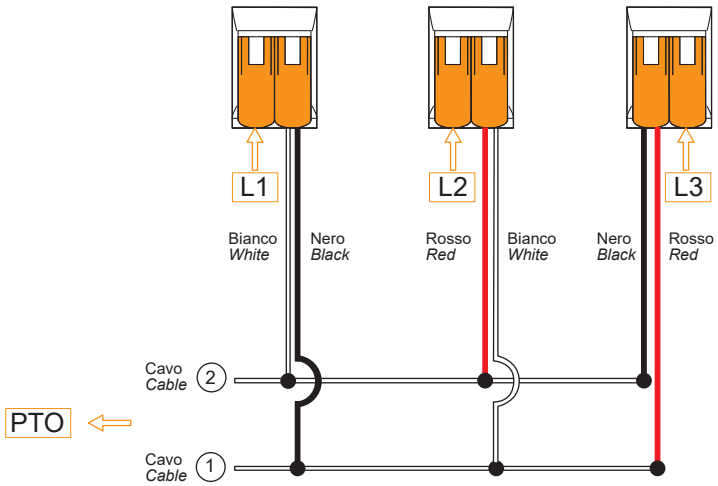
230 V - Trifase / *three phase*

Collegamento a triangolo / *Delta connection*



Morsetti a levetta liberi per alimentazione motore

Splicing connector with free-lever for the motor power source



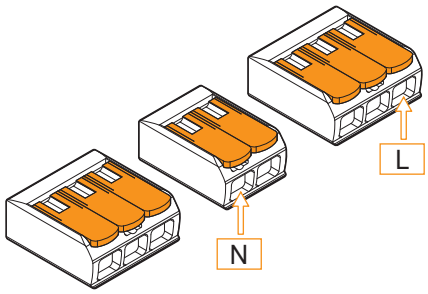
I motori della serie SM sono forniti in collegamento a stella, lo schema di collegamento a triangolo sopra riportato fornisce una chiara indicazione delle modifiche che il cliente può apportare in autonomia. Senecessario contattare il Serziaio Tecnico Transtecno.

The SM series is supplied in star connection, the delta connection diagram shown above provides a clear indication of the modification that the customer can make independently. If needed, contact Transtecno Technical Service.

Connessioni e collegamenti — *Connection diagram*

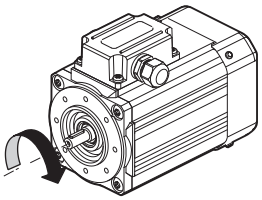
230 V - Monofase / *single phase*

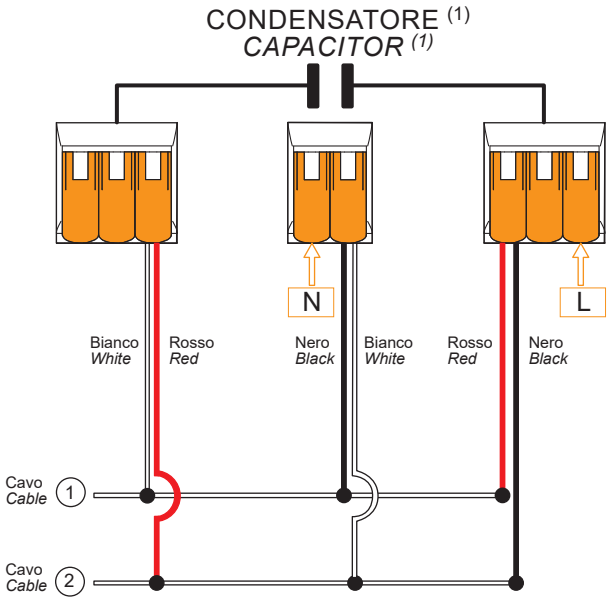
Monofase SMM 50... / *Single phase SMM 50...*



Morsetti a levetta liberi per alimentazione motore
Splicing connector with free-lever for the motor power source

Senso di rotazione orario
Clockwise direction of rotation

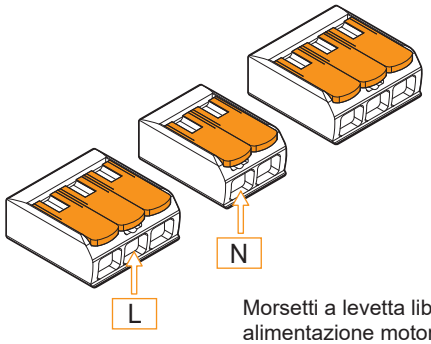




(1): il condensatore sarà fornito a corredo.
(1): the capacitor will be supplied separately.

230 V - Monofase / *single phase*

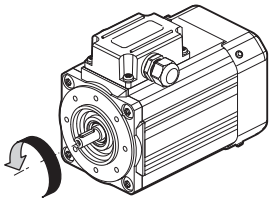
Monofase SMM 50... / *Single phase SMM 50...*

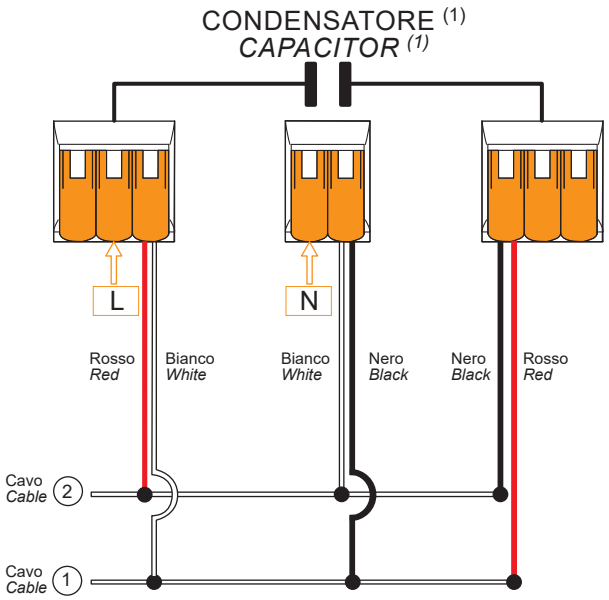


Morsetti a levetta liberi per alimentazione motore

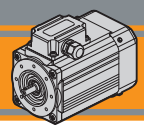
Splicing connector with free-lever for the motor power source

Senso di rotazione antiorario
Counter-*clockwise direction of rotation*





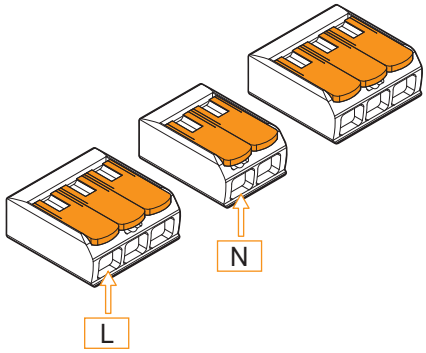
(1): il condensatore sarà fornito a corredo.
(1): the capacitor will be supplied separately.



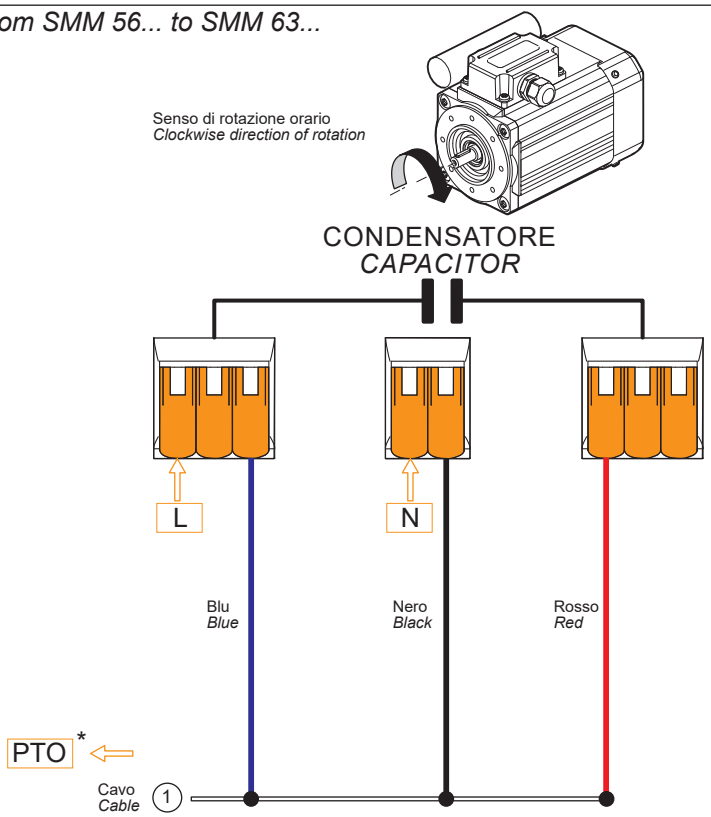
Connessioni e collegamenti — *Connection diagram*

230 V - Monofase / *single phase*

Monofase da SMM 56... a SMM 63... / *Single phase from SMM 56... to SMM 63...*

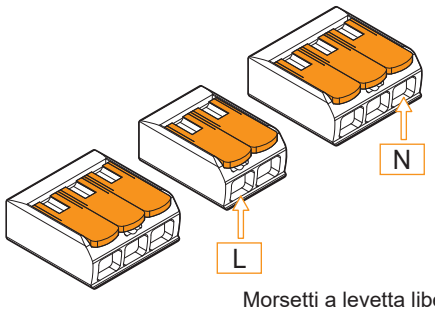


Morsetti a levetta liberi per alimentazione motore
Splicing connector with free-lever for the motor power source



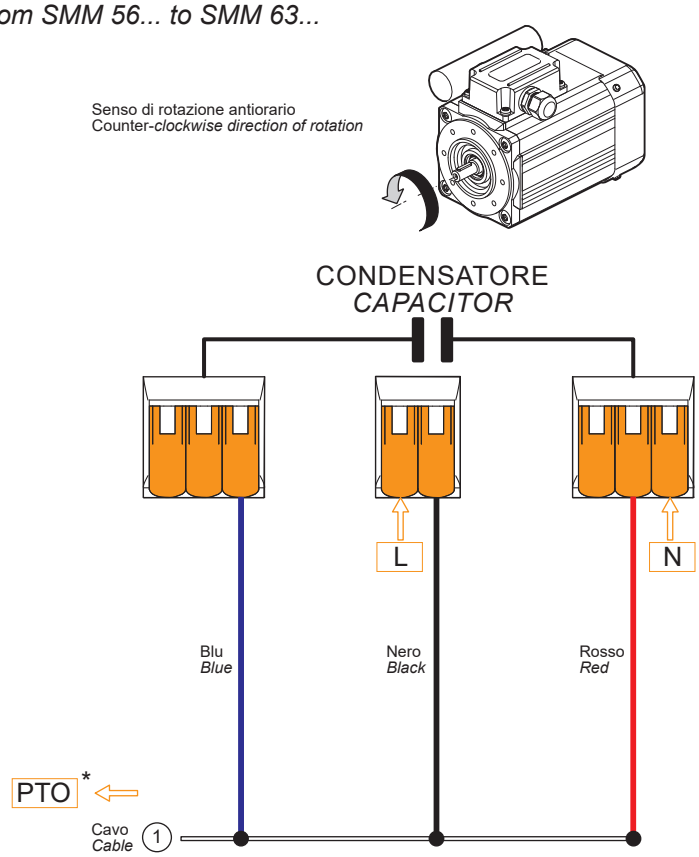
230 V - Monofase / *single phase*

Monofase da SMM 56... a SMM 63... / *Single phase from SMM 56... to SMM 63...*



Morsetti a levetta liberi per alimentazione motore

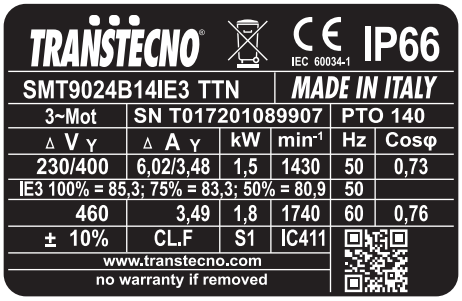
Splicing connector with free-lever for the motor power source



*: collegamento al circuito di comando del motore a cura del cliente. Per ragioni di sicurezza è sconsigliato il collegamento in serie. Se necessario contattare il Servizio Tecnico Transtecno.

**: motor supply connection by the customer. For safety reason Transtecno advises against PTO connected in series. If needed, contact Transtecno Technical Service.*

Targhetta *Nameplate*



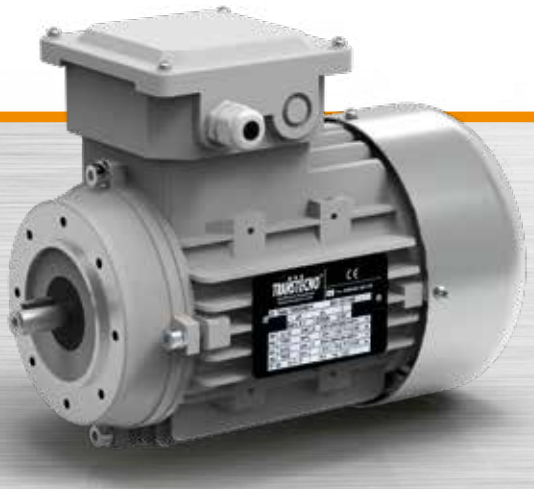
TRANSTECNO®
the modular gearmotor

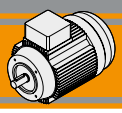
TS

TS

TS Alu

Motori elettrici asincroni CA
AC asynchronous electric motors





Caratteristiche tecniche

I motori della serie TS sono tutti dotati di ventola di raffreddamento. Costruiti in alluminio e disponibili nelle versioni B5, B14 e B3.

La serie TS comprende motori ad induzione trifase 230/400 Vca a 50 Hz e 275/480 Vca a 60 Hz 4 poli, per potenze da 0.09 kW fino a 2.2 kW.

Altre caratteristiche standard dei motori TS sono:

- Isolamento termico di classe F
- Grado di protezione IP55
- Temperatura ambiente: -20 °C ÷ +40 °C.

Technical characteristics

All Ts series motors are fan cooled and made with an aluminium frame in version B5, B14.

TS range includes induction three phase 4 poles motors 230/400 Vac at 50 Hz and 275/480 Vac at 60 Hz, it covers power sizes from 0.09 kW up to 2.2 kW.

Standard features are:

- *Class F thermal insulation*
- *IP55 enclosure protection*
- *Ambient temperature: -20 °C ÷ +40 °C.*

Designazione

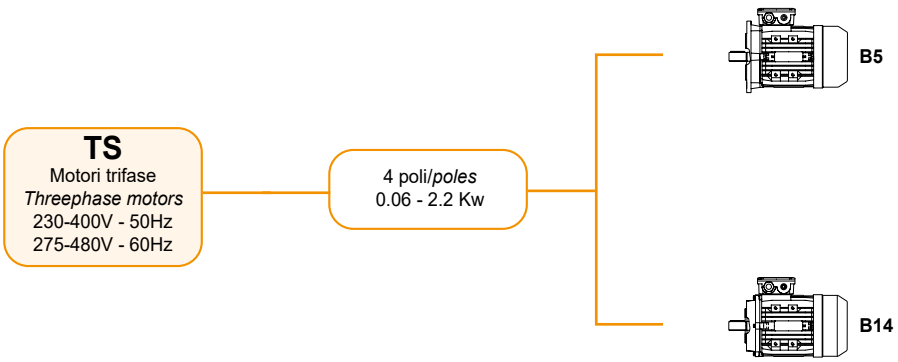
Classification

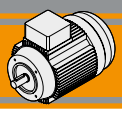
MOTORE TRIFASE / *THREE PHASE MOTOR*

TS	63	2	4	0.18	B5	3 ph	230-400 V	50 Hz
Tipo *Type*	Grandezza *Size*	Indicativo potenza *Power coefficient*	Poli *Poles*	Potenza *Power*	Forma costruttiva *Version*	Fasi *Phases*	Tensione *Voltage*	Frequenza *Frequency*
TS trifase *threephase*	vedi tabelle *see tables*	**1-2-3-S** **L1-L2**	**4**	**0.09 kW** **...** **2.2 kW**	**B5** **B14**	**3 ph**	**230-400 V** **275-480 V**	**50Hz** **60Hz**

Versioni

Versions





Simbologia e formule — *Symbols and formulas*

P_n	[kW]	Potenza nominale	*Rated power*
I_n	[A]	Corrente nominale (a 400V)	*Rated current (at 400V)*
M_n	[Nm]	Coppia nominale	*Rated torque*
n_n	[rpm]	Velocità nominale	*Rated speed*
LR	[dB]	Livello di rumorosità	*Noise Level*
M_s / M_n		Rapporto coppia spunto / coppia nominale	*Ratio start torque / rated torque*
M_k / M_n		Rapporto coppia massima / coppia nominale	*Ratio max torque / rated torque*
M_{sel} / M_n		Rapporto coppia di sella (minima) / coppia nominale	*Ratio saddle torque / rated torque*
I_s / I_n		Rapporto corrente di spunto / corrente nominale	*Ratio start current / rated current*
cosφ		Fattore di potenza al carico nominale	*Power factor at rated torque load*
η		Rendimento al carico nominale	*Efficiency at rated torque load*
Potenza *Power*	[HP]	Potenza [kW] x 1.34 circa	*Power [kW] x 1.34 (about)*
Potenza resa P_n *P_n output power*	[kW]	Potenza assorbita x η	*Absorbed power x η*
Pot. assorbita *Absorbed power*	[kW]	$\frac{V \times I \times PF}{1000}$ (monofase) $\frac{V \times I \times \sqrt{3} \times PF}{1000}$ (trifase)	$\frac{V \times I \times PF}{1000}$ *(singlephase)* $\frac{V \times I \times \sqrt{3} \times PF}{1000}$ *(threephase)*
I_n (230 V)		In (400 V) x √3	*In (400 V) x √3*

Dati tecnici — *Technical data*

TS Motori trifase / *TS Three phase motors*

(230-400 V / 50 Hz - 1400 min^{-1}) S1 IE1 poli / *poles* 4

TS	P_n [kW]	M_n [Nm]	n_n [min^{-1}]	I_n (400V) [A]	η %	cosφ	M_s/M_n	I_s/I_n	M_k/M_n	M_{sel}/M_n	LR [dB]	Massa *Mass* [Kg]
562-4	0.09	0.63	1360	0.45	52	0.59	2.3	4	2.4	2	50	3.2
631-4	0.12	0.84	1360	0.55	52	0.64	2.2	4	2.4	2	52	3.7
632-4	0.18	1.31	1310	0.70	57	0.65	2.2	4	2.4	2	52	4.2
633-4	0.25	1.78	1340	0.91	60	0.66	2.2	4	2.2	2	54	5.0
711-4	0.25	1.77	1350	0.84	60	0.72	2.2	6	2.4	1.7	55	5.0
712-4	0.37	2.58	1370	1.11	65	0.74	2.2	6	2.4	1.7	55	5.8
713-4	0.55	3.80	1380	1.60	66	0.75	2.2	6	2.4	1.7	57	6.5
714-4	0.75	5.15	1390	2.20	71.3	0.69	2.7	4.2	2.7	2.4	57	7.7
801-4	0.55	3.83	1370	1.58	67	0.75	2.2	6	2.4	1.7	58	8.1
802-4	0.75	5.19	1380	1.93	72	0.78	2.2	6	2.4	1.6	58	9.1
803-4	1.1	7.55	1390	2.67	76.2	0.78	2.2	6	2.4	1.6	60	11.0
90S-4	1.1	7.50	1400	2.64	76.2	0.79	2.2	6	2.4	1.6	61	11.7
90L1-4	1.5	10.2	1400	3.45	78.5	0.8	2.2	6	2.4	1.6	61	14.4
90L2-4	2.2	15.0	1400	4.90	81	0.8	2.2	7	2.4	1.5	63	17.6
100L1-4	2.2	14.8	1420	4.84	81	0.81	2.2	7	2.3	1.5	64	19.2

Legenda: vedere pagina 2
Key: read page 2

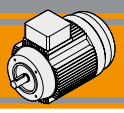
Dati tecnici: dimensioni motori — *Technical data : motor dimensions*

Dimensioni motori trifase serie TS — B5 — *TS Series three phase motor dimensions*

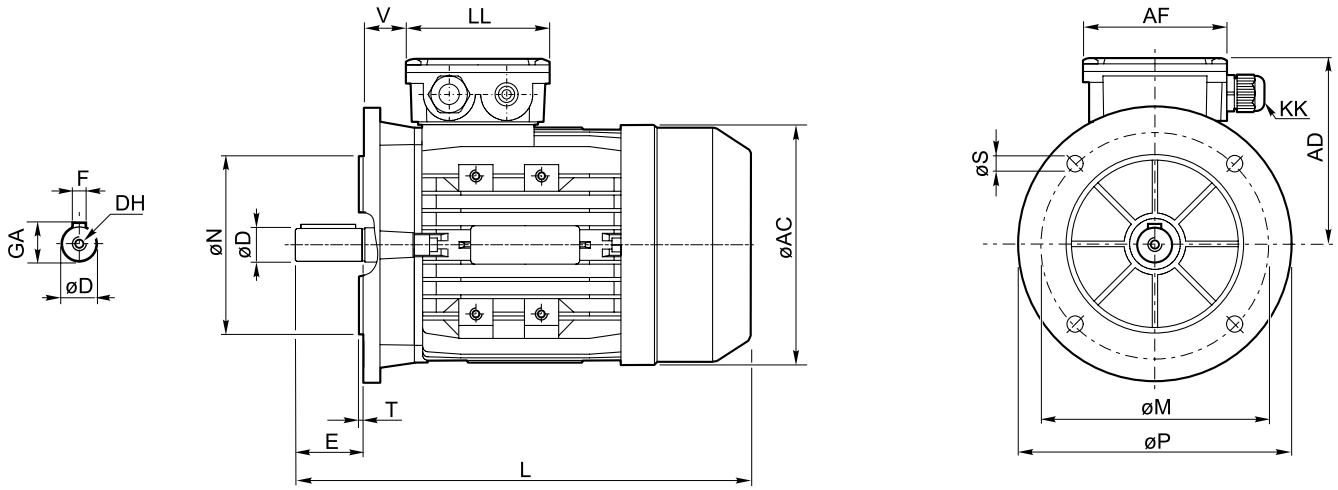
TS	Albero / *Shaft*					B5											
	D	E	DH	GA	F	P	M	N	S	T	AC	AD	AF	KK	L	LL	V
56	9	20	M3	10.2	3	120	100	80	7	3	117	100	88	1-M16x1.5	196	88	14
63	11	23	M4	12.5	4	140	115	95	10	3	130	108	94	1-M16x1.5	220	94	14
71 1/2 (3/4)	14	30	M5	16	5	160	130	110	10	3.5	147	115	94	1-M20x1.5	241 (255)	94	20
80	19	40	M6	21.5	6	200	165	130	12	3.5	163	133	105	1-M20x1.5	290	105	27
90S	24	50	M8	27	8	200	165	130	12	3.5	183	139	105	1-M20x1.5	312	105	30
90L1	24	50	M8	27	8	200	165	130	12	3.5	183	139	105	1-M20x1.5	337	105	30
100L 1/2	28	60	M10	31	8	250	215	180	15	4	205	152	105	2-M20x1.5	369	105	26

Dimensioni motori trifase serie TS — B14 — *TS Series three phase motor dimensions*

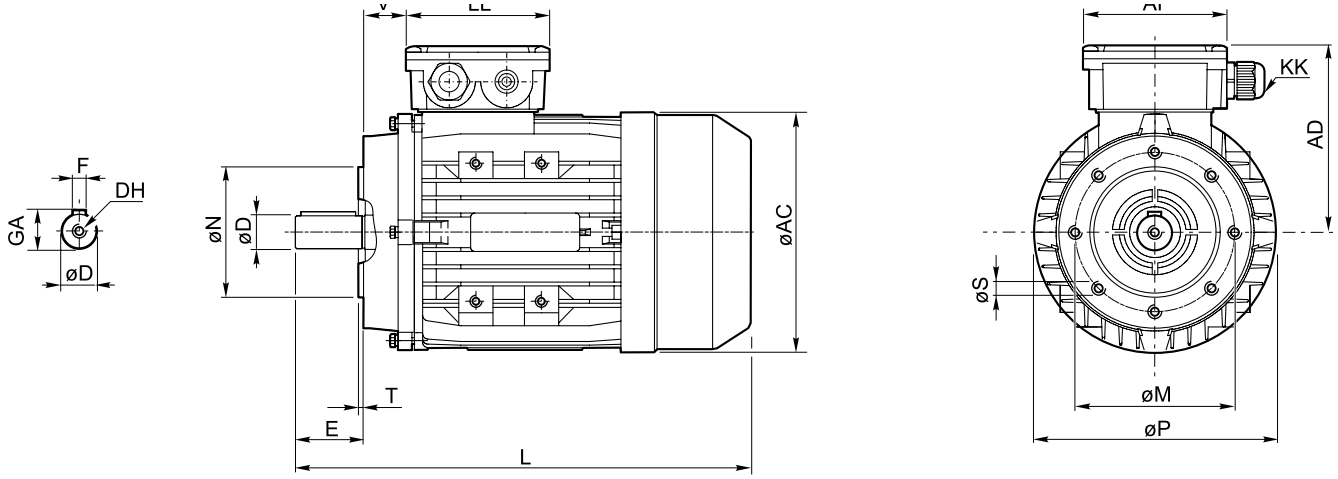
TS	Albero / *Shaft*					B14											
	D	E	DH	GA	F	P	M	N	S	T	AC	AD	AF	KK	L	LL	V
56	9	20	M3	10.2	3	80	65	50	M5	2.5	117	100	88	1-M16x1.5	196	88	14
63	11	23	M4	12.5	4	90	75	60	M5	2.5	130	108	94	1-M16x1.5	220	94	14
71 1/2 (3/4)	14	30	M5	16	5	105	85	70	M6	2.5	147	115	94	1-M20x1.5	241 (255)	94	20
80	19	40	M6	21.5	6	120	100	80	M6	3	163	133	105	1-M20x1.5	290	105	27
90S	24	50	M8	27	8	140	115	95	M8	3	183	139	105	1-M20x1.5	312	105	30
90L 1/2	24	50	M8	27	8	140	115	95	M8	3	183	139	105	1-M20x1.5	337 / 367	105	30
100L 1	28	60	M10	31	8	160	130	110	M8	3.5	205	152	105	2-M20x1.5	369	105	26



Dimensioni motori trifase serie TS B5 *TS Series three phase motor dimensions*



Dimensioni motori trifase serie TS B14 *TS Series three phase motor dimensions*



Tipi di servizio IEC — *IEC duty cycles*

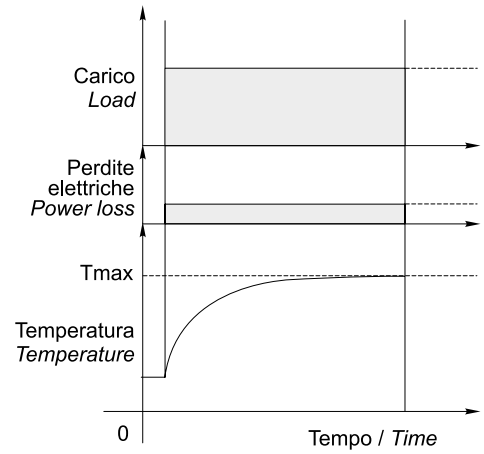
Il servizio di un motore indica il tipo di utilizzo e la gravosità del ciclo di lavoro.

The duty cycle of a motor indicates its use and running cycle.

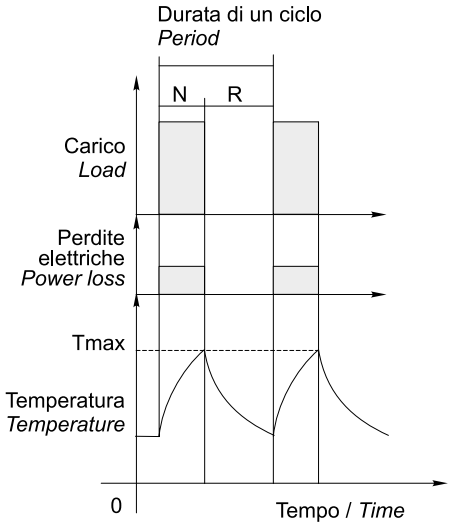
Grafico servizi più comuni — *Most common duty cycles diagram*

N = funzionamento / *run*
R = riposo / *rest*

S1



S2/S3



NOTA: Lo stesso motore può essere usato per cicli e servizi diversi, con l'unica limitazione che la temperatura interna non superi mai la Tmax stabilita dalla classe di isolamento termico del motore.
Per il servzio S3, la durata di un ciclo deve essere uguale o inferiore a 10 minuti.

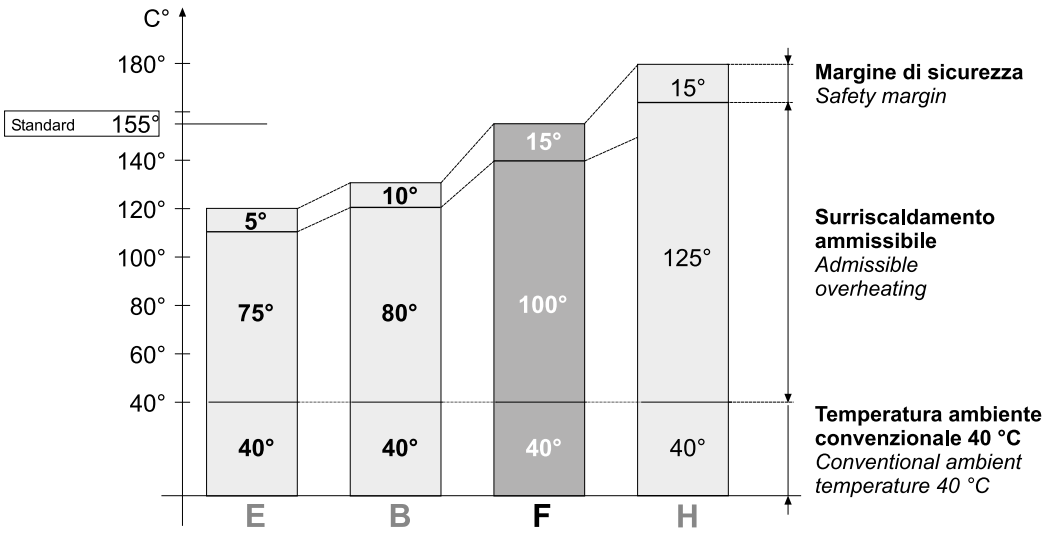
NOTE: The same motor can run under all duty services, limitation is due to internal temperature that must not override Tmax stated by motor thermal class.
Duty cycle S3 period must be equal or less than 10 minutes.

Classe di isolamento termico — *Insulation class*

La classe termica indica il grado di resistenza alla temperatura interna, nel punto più caldo (avvolgimenti).
Isolamento termico di classeF.

Thermal insulation class indicates the level of thermal protection measured at the hottest point inside the motor (windings).
Thermal insulation class F.

Classe ***Class***	Massima temperatura interna Max. *windings temp.*
E	120°C
B	130°C
F	155°C
H	180°C



Serie TS - Funzionamento a 60 Hz

Series TS - 60 Hz line power supply

Velocità, coppia e potenza nominale nel funzionamento a 60 Hz varieranno come da tabella:

Speed, torque and rated power in 60 Hz operation is shown in the following table:

	50 Hz	60 Hz
400 V	Vedi dati tecnici / *see technical data* 3	Velocità / *speed* ≈ + 20% Coppia / *torque* ≈ -20% Potenza / *power* ≈ invariata / *the same*
480 V	**Non permesso / *not allowed***	Velocità / *speed* ≈ + 20% Coppia / *torque* ≈ invariata / *the same* Potenza / *power* ≈ + 20%

Dati pressacavi

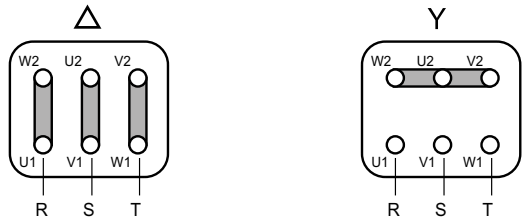
Cable glands data

TS	Pressacavi *Cable glands*
56	1-M16x1.5
63	1-M16x1.5
71	1-M20x1.5
80	1-M20x1.5
90	1-M20x1.5
100	2-M20x1.5

Connessioni e collegamenti

Connection diagram

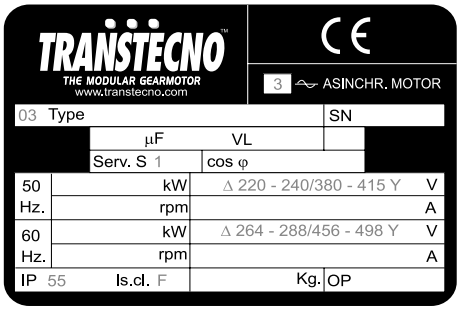
TS - 230 V - 50 Hz (275 V 60Hz) / **400 V - 50 Hz** (480 V 60Hz)



Nota: per invertire il senso di rotazione spostare tra loro 2 cavi
Note: swap the 2 leads to reverse rotation

Targhetta

Nameplate



Note / *Notes*

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