



Motori elettrici asincroni CA  
**AC asynchronous electric motors**

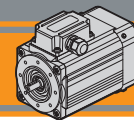


**C  US**

**File E511911**



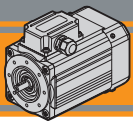




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**Caratteristiche tecniche**

**Technical characteristics**

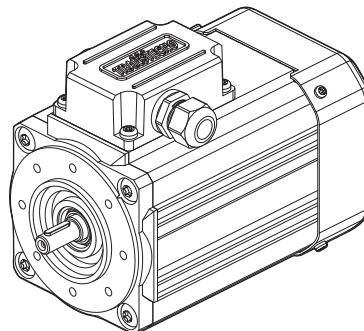
I motori certificati UL/CSA delle serie SMT ed SMM hanno le seguenti caratteristiche principali:

SMT and SMM motor range with UL/CSA Certification has the following main features:

- Costruzione compatta
- Motorizzazioni in corrente alternata monofase e trifase
- Carcassa estrusa in alluminio anodizzato nero
- Motore elettrico AC con grado di protezione IP66 (escluso condensatore)
- Rumorosità e vibrazioni contenute
- Isolamento termico di classe F
- Flangia motore IECB14
- Temperatura ambiente: -20°C/+40°C
- Disponibili nella versione ventilata TEFC (servizio S1).
- Protezione termica PTO 150°C
- Motori trifase SMT dotati di separatori di fase
- Cava esagonale su albero motore lato NDE
- Condensatore di marcia per motori monofase SMM
- La tolleranza di tensione è ±10%
- Standard applicati:  
UL1004-1: Rotating Electrical Machines General Requirements  
CSA:100-14: Motors and Generators



- Compact design
- AC single phase and three phase motors available
- Black anodized extruded aluminium housing
- AC electric motor in IP66 protection Standard (except capacitor)
- Low noise and vibrations
- Class F insulation Standard
- Motor flange IEC B14
- Ambient temperature: -20°C / +40°C
- Fan cooled TEFC (duty S1)
- PTO 150° C thermal protection
- Three phase motors SMT equipped with phase separators.
- Motor shaft hexagon socket on the NDE side.
- Running capacitor for single phase motors SMM.
- Voltage tolerance ±10%
- Standards applied:  
UL1004-1: Rotating Electrical Machines General Requirements  
CSA:100-14: Motors and Generators

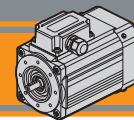
SM .. TEFC



**Designazione**

**Classification**

MOTORE TRIFASE / THREE PHASE MOTOR					
SMT	63	2	4	B14	UL
Tipo Type	Grandezza Size	Indicativo potenza Power coefficient	Poli Poles	Forma costruttiva Version	Versione UL UL Version
<b>SMT</b>	Vedi tabelle See tables	<b>1-2-3-4-5</b>	<b>4</b>	<b>B14</b>	<b>UL</b>
					
MOTORE MONOFASE / SINGLE PHASE MOTOR					
SMM	63	2	4	B14	UL
Tipo Type	Grandezza Size	Indicativo potenza Power coefficient	Poli Poles	Forma costruttiva Version	Versione UL UL Version
<b>SMM</b>	Vedi tabelle See tables	<b>1-2-3-4-5</b>	<b>4</b>	<b>B14</b>	<b>UL</b>
					


**Simbologia e formule**
**Symbols and formulas**

$P_n$	[kW]	Potenza nominale	Rated power
$I_n$	[A]	Corrente nominale	Rated current
$M_n$	[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
$\cos\varphi$		Fattore di potenza al carico nominale	Power factor at rated torque load
$\eta$		Rendimento al carico nominale	Efficiency at rated torque load
$f$	[Hz]	Frequenza	Frequency
$V$	[V]	Tensione	Voltage
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 $\eta$	Absorbed power x $\eta$
Pot. assorbita Absorbed power	[kW]	$\frac{V \times I \times \cos\varphi}{1000}$ (monofase)	$\frac{V \times I \times \cos\varphi}{1000}$ (singlephase)
		$\frac{V \times I \times \sqrt{3} \times \cos\varphi}{1000}$ (trifase)	$\frac{V \times I \times \sqrt{3} \times \cos\varphi}{1000}$ (threephase)
$I_n$ (230 V)		$I_n$ (400 V) x $\sqrt{3}$	$I_n$ (400 V) x $\sqrt{3}$

**Dati tecnici**
**Technical data**
**SMT Motori trifase / SMT Three phase motors**

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

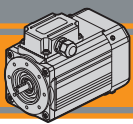
 (460 V / 60 Hz) poli / poles **4**

TAGLIA SIZE	$P_n$ [kW]	$M_n$ [Nm]	$n_n$ [min <sup>-1</sup> ]	V - f [V - Hz]	$I_n$ (400-460 V) [A]	$\eta$ %	$\cos\varphi$	$M_s/M_n$	$I_s/I_n$	$M_k/M_n$
5624	0.09	0.63	1365	400 - 50	0.45	47.3	0.61	2.50	2.40	2.70
	0.11		1660	460 - 60		50.3				
5634	0.12	0.88	1300	400 - 50	0.45	52.0	0.74	1.90	2.40	1.90
	0.14	0.83	1600	460 - 60	0.42	59.0	0.71	2.10	2.70	2.10
6324	0.18	1.26	1360	400 - 50	0.69	57.0	0.66	2.50	2.90	2.50
	0.22	1.27	1650	460 - 60		59.7	0.67		3.00	
6334	0.25	1.74	1375	400 - 50	0.94	62.0	0.64	2.80	3.00	2.80
	0.28	1.59	1690	460 - 60		61.3	0.61	3.00	3.20	3.00
7124	0.37	2.52	1400	400 - 50	1.09	68.0	0.72	2.75	4.20	2.75
	0.42	2.35	1700	460 - 60		68.1	0.71	2.90	4.50	2.90
7134	0.55	3.76	1395	400 - 50	1.55	70.2	0.73	2.90	4.40	2.90
	0.66	3.71	1700	460 - 60		73.2			4.80	2.80
8024	0.75	4.96	1440	400 - 50	1.97	82.0	0.67	3.60	6.00	3.70
	0.90	4.93	1740	460 - 60		84.3	0.68	3.40	6.40	3.60
8034	1.10	7.25	1450	400 - 50	2.92	83.6	0.65	4.0	6.80	4.40
	1.21	6.65	1740	460 - 60		77.6	0.67	4.4	7.00	4.50
9024	1.50	10.0	1430	400 - 50	3.48	85.2	0.73	3.2	6.30	3.50
	1.80	9.88	1740	460 - 60		85.4	0.76	3.4	6.50	3.40

**SMM Motori monofase / SMM Single phase motors**

 (115 V / 60 Hz) poli / poles **4**

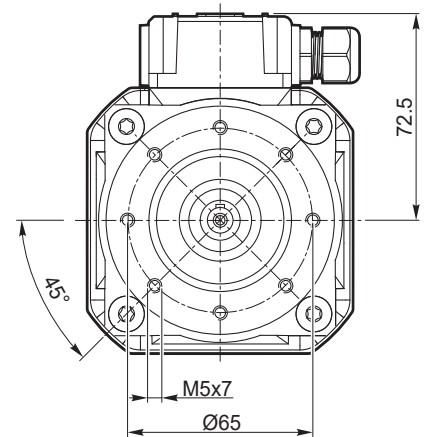
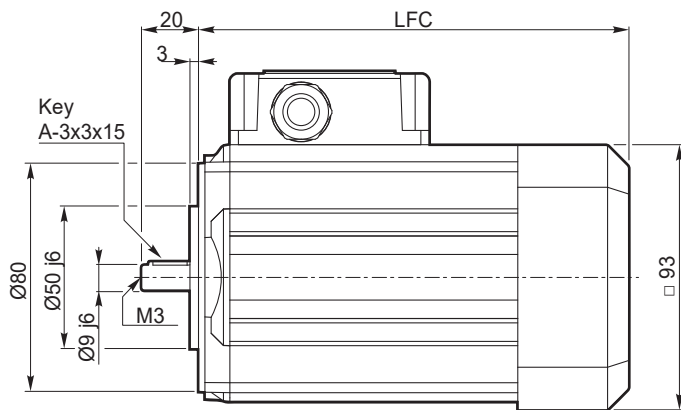
TAGLIA SIZE	$P_n$ [kW]	$M_n$ [Nm]	$n_n$ [min <sup>-1</sup> ]	V - f [V - Hz]	$I_n$ (115V) [A]	$\eta$ %	$\cos\varphi$	$M_s/M_n$	$I_s/I_n$	$M_k/M_n$	Cond/cap [μF]
5624	0.09	0.52	1665	115 - 60	1.60	50.0	0.98	0.64	1.95	1.51	20
6324	0.18	1.09	1570	115 - 60	2.70	58.5	0.99	1.0	2.1	1.50	40
7124	0.37	2.18	1620	115 - 60	4.70	69.8	0.98	0.64	2.3	1.33	60



**Dimensioni motori trifase**

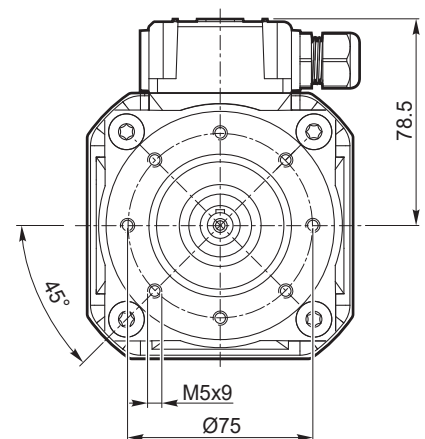
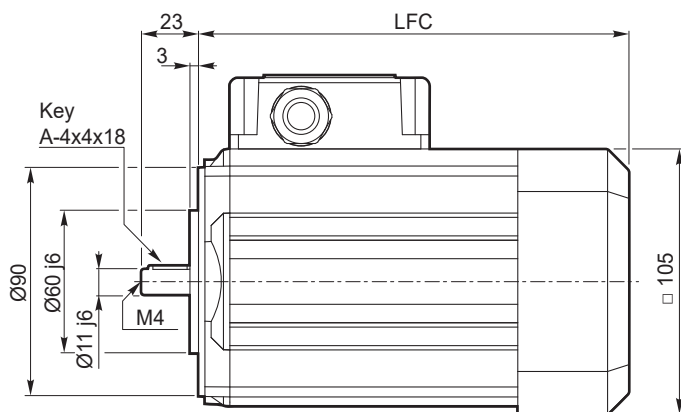
**Three phase motors dimensions**

**SMT56.. - B14 - TEFC**



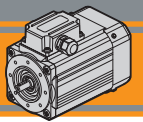
SMT	... TEFC	
	LFC	Kg
5624	186	3.1
5634	186	3.5

**SMT63.. - B14 - TEFC**



SMT	... TEFC	
	LFC	Kg
6324	205.5	4.7
6334	205.5	5.4

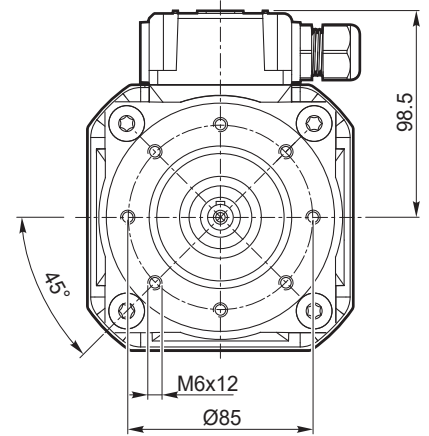
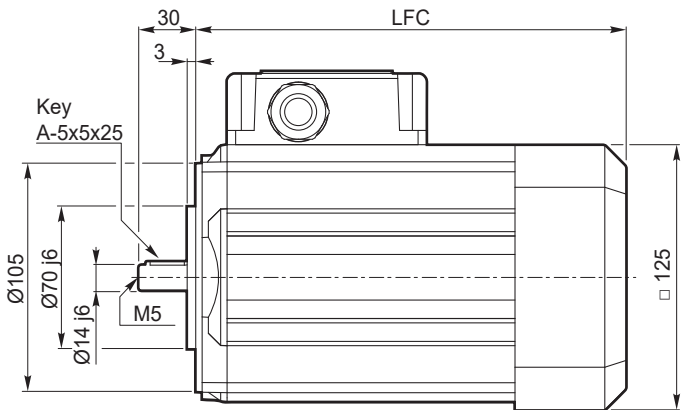




**Dimensioni motori trifase**

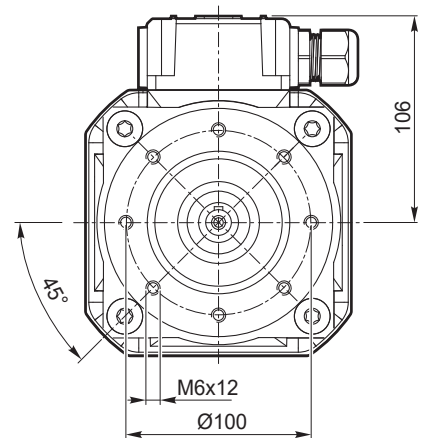
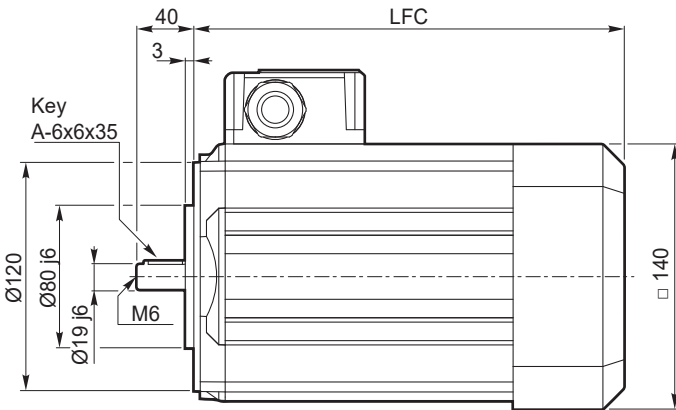
**Three phase motors dimensions**

**SMT71.. - B14 - TEFC**



SMT	... TEFC	
	LFC	Kg
7124	214	7.0
7134	214	8.2

**SMT80.. - B14 - TEFC**



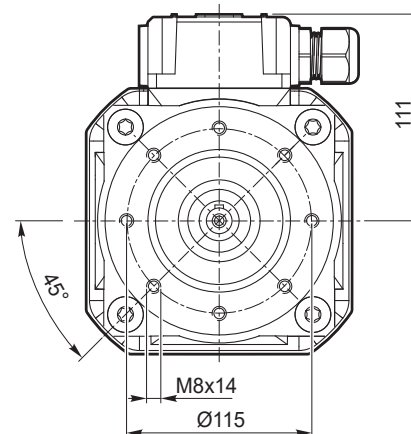
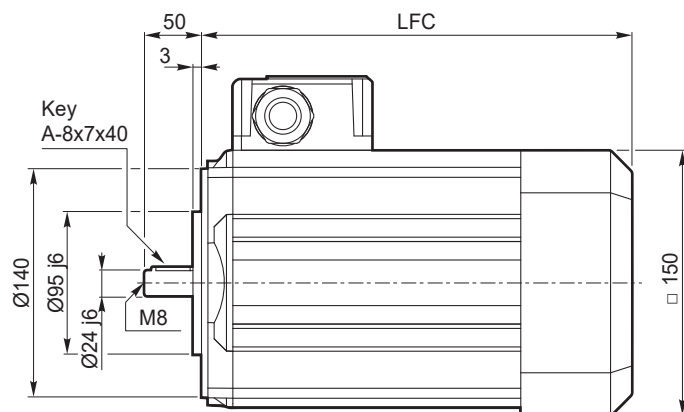
SMT	... TEFC	
	LFC	Kg
8024	283	12.8
8034	309	17.1



**Dimensioni motori trifase**

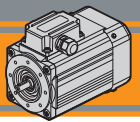
**Three phase motors dimensions**

**SMT90.. - B14 - TEFC**



SMT	... TEFC	
	LFC	Kg
9024	313	18.5

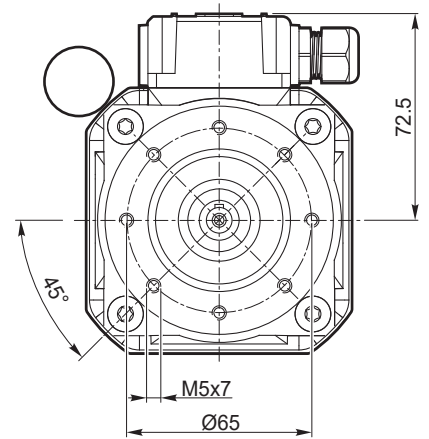
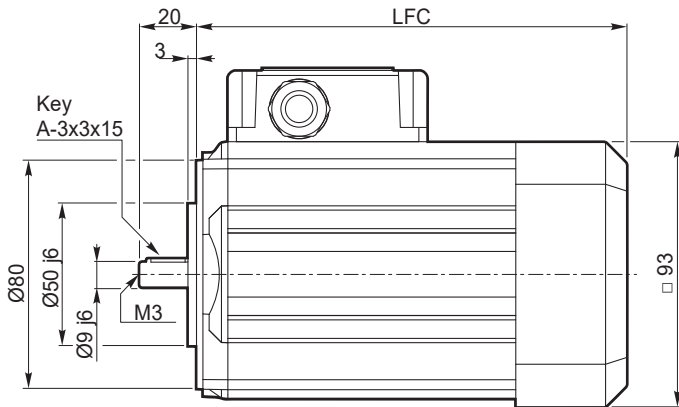




**Dimensioni motori monofase**

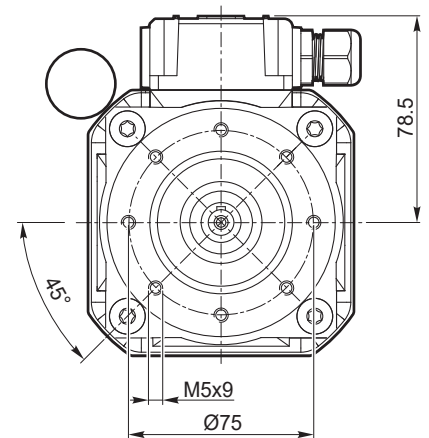
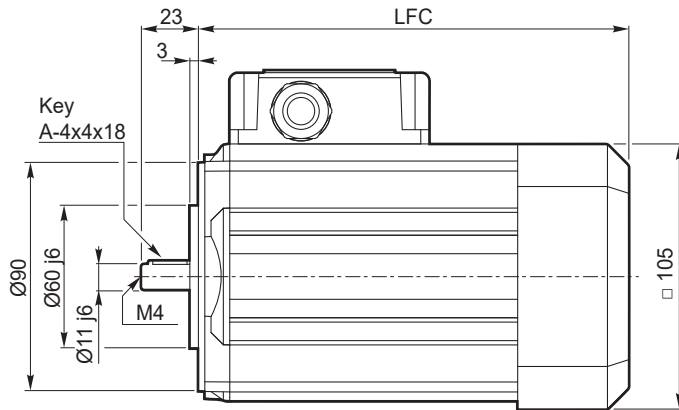
**Single phase motors dimensions**

**SMM56.. - B14 - TEFC**



SMM	... TEFC	
	LFC	Kg
5624	186	3.6

**SMM63.. - B14 - TEFC**



SMM	... TEFC	
	LFC	Kg
6324	205.5	5.5

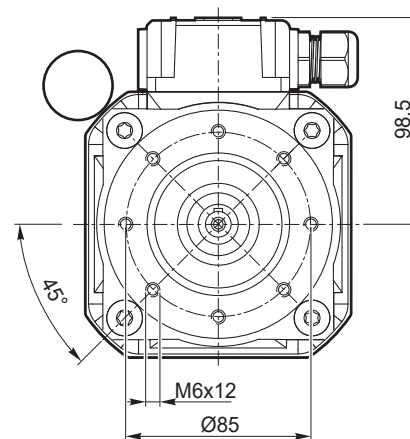
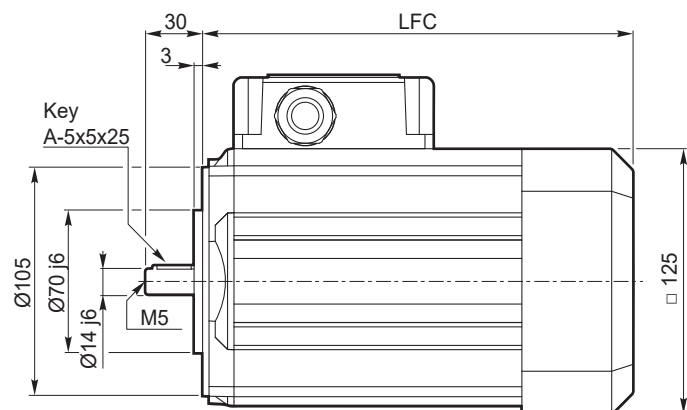
**SM**



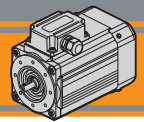
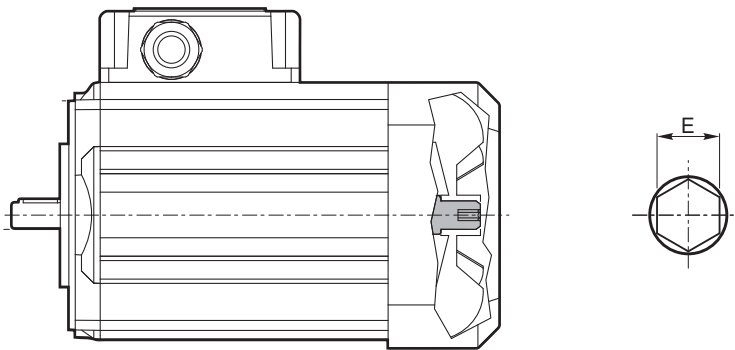
**Dimensioni motori monofase**

**Single phase motors dimensions**

**SMM71.. - B14 - TEFC**



SMM	... TEFC	
	LFC	kg
7124	214	8.0


**Cava esagonale**
**Hexagonal socket**

**Esagono / Hexagon**

SM..	E
56	4
63	
71	
80	6
90	

**Nota:**

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

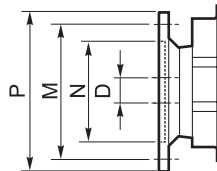
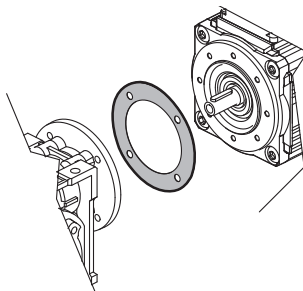
Il quadro elettrico del motore deve essere lucchettabile al fine di evitare il riarmo non previsto alla rete elettrica.

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
<b>N</b>	50	60	70	80	95
<b>M</b>	65	75	85	100	115
<b>P</b>	80	90	105	120	140
<b>D</b>	9	11	14	19	24

**Versioni opzionali**
**Optional versions**

Versioni opzionali con freno ed encoder disponibili a richiesta su alcuni modelli. Su richiesta sono disponibili grandezze motore superiori a quelle indicate a catalogo.

Si prega di contattare il nostro Servizio Tecnico.

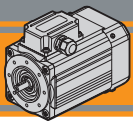
*Optional versions with brake and encoder are available on request on some models. Motor sizes bigger than those indicated in the catalogue are available on request.*

*Please contact our Technical Service.*

**Certificazione UL / CSA**
**UL / CSA certificate**

I motori SM certificati UL/CSA sono marcati secondo la Norma UL 1004-1, Rotating Electrical Machines General Requirements e CSA 100-14, Motors and Generators.

*SM motors Certified UL/CSA are marked for approval by UL 1004-1, Rotating Electrical Machines General Requirements and CSA 100-14, Motors and Generators.*



**Grado di protezione IP**

**IP protection rating**

Indica il grado di isolamento meccanico del corpo motore.

1<sup>a</sup> cifra protezione alla penetrazione di corpi solidi.

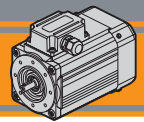
2<sup>a</sup> cifra protezione contro la penetrazione d'acqua.

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

The 1<sup>st</sup> figure indicates the level of protection against the intrusion of solid matter.

The 2<sup>nd</sup> 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.



**Tipi di servizi IEC**

**IEC duty cycles**

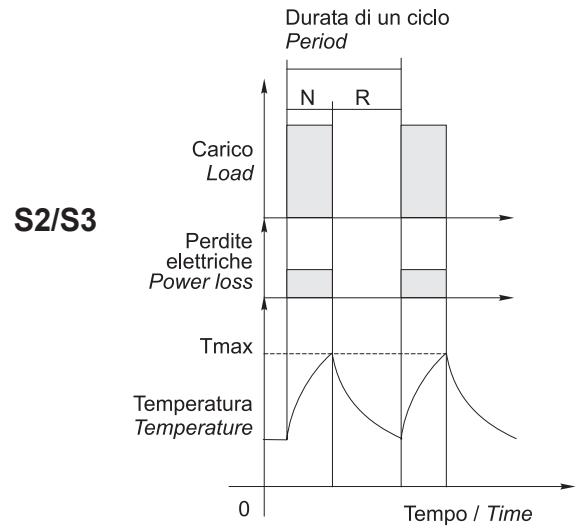
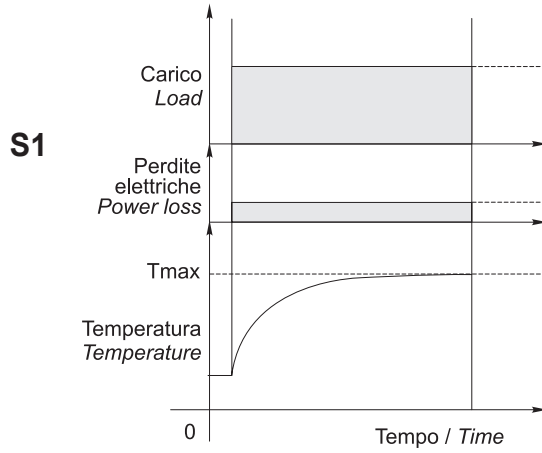
Il servizio di un motore indica il tipo di utilizzo e la gravosità del ciclo di lavoro.

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



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.

**Tabella pressacavi**

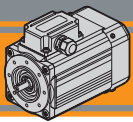
**Table of cable glands data**

**Serie SMT / SMT Series**

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

**Serie SMM / SMM Series**

TAGLIA SIZE	Pressacavo Cable gland
56 / 63	2 x M16x1.5
71	2x M20x1.5

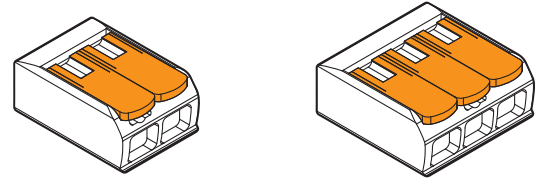
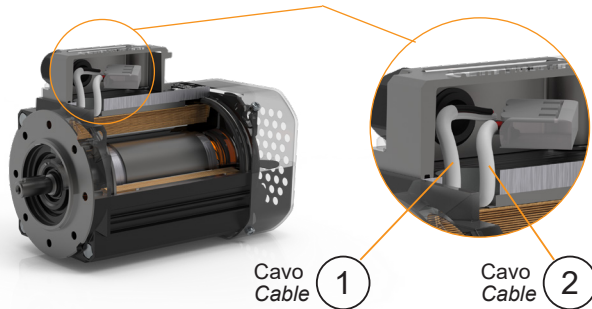


**Connessioni e collegamenti**

**Connection diagram**

Riferimenti

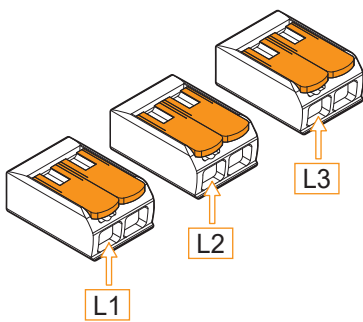
References



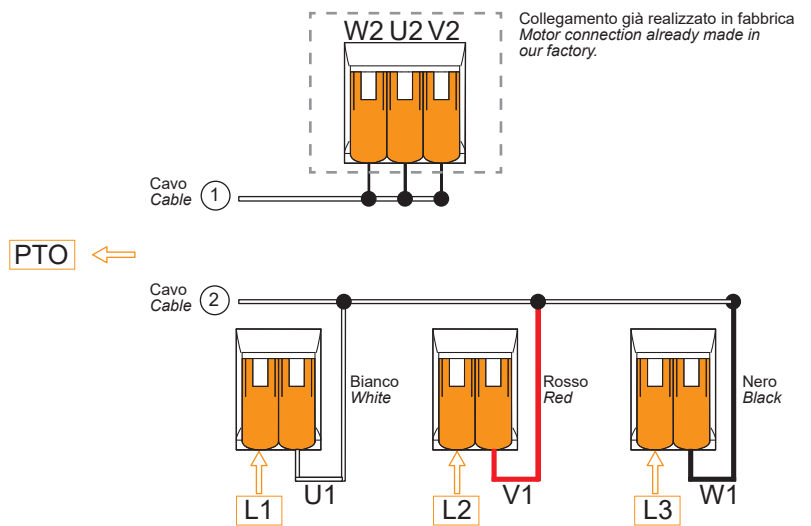
Morsetto di collegamento a leva a 2 e 3 poli  
Splicing connector with lever 2 - and 3 - pin.

**400/460 V - Trifase / three phase**

Collegamento a stella / Star connection

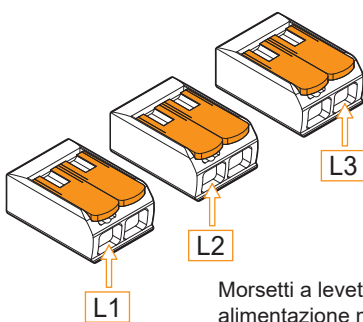


Morsetti a levetta liberi per alimentazione motore  
Splicing connector with free-lever for the motor power source



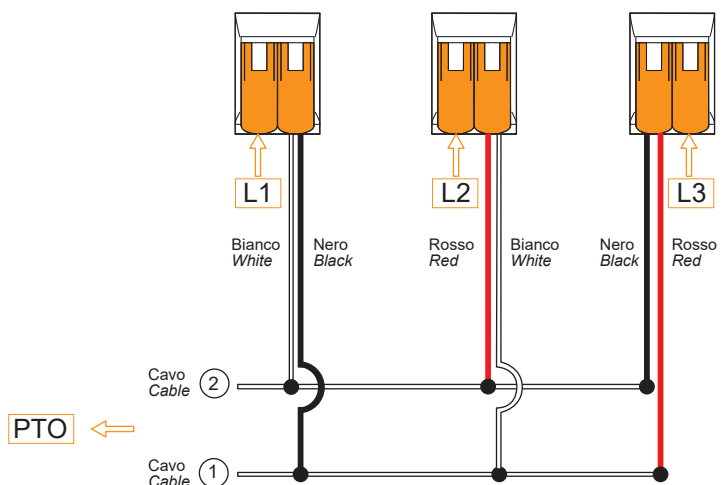
**230 V - Trifase / three phase**

Collegamento a triangolo / Delta connection



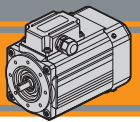
Morsetti a levetta liberi per alimentazione motore

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 Serziao 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.

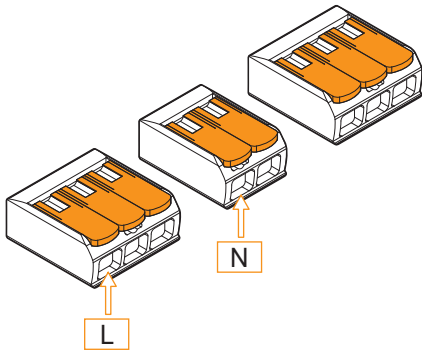


Connessioni e collegamenti

Connection diagram

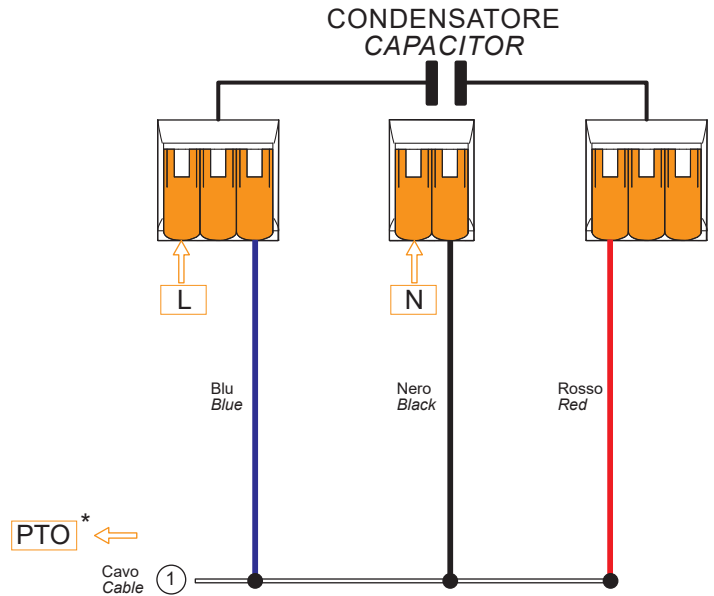
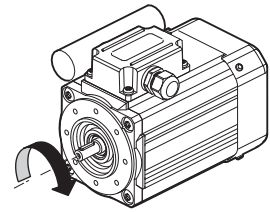
**115 V - Monofase / single phase**

Monofase da SMM 56... a SMM 71... / Single phase from SMM 56... to SMM 71...



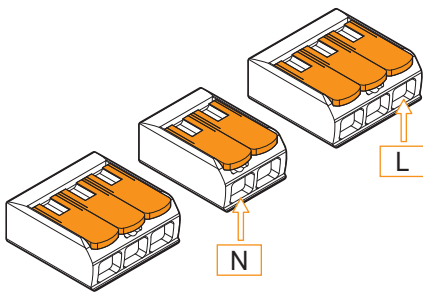
Morsetti a levetta liberi per alimentazione motore  
Splicing connector with free-lever for the motor power source

Senso di rotazione orario  
Clockwise direction of rotation



**115 V - Monofase / single phase**

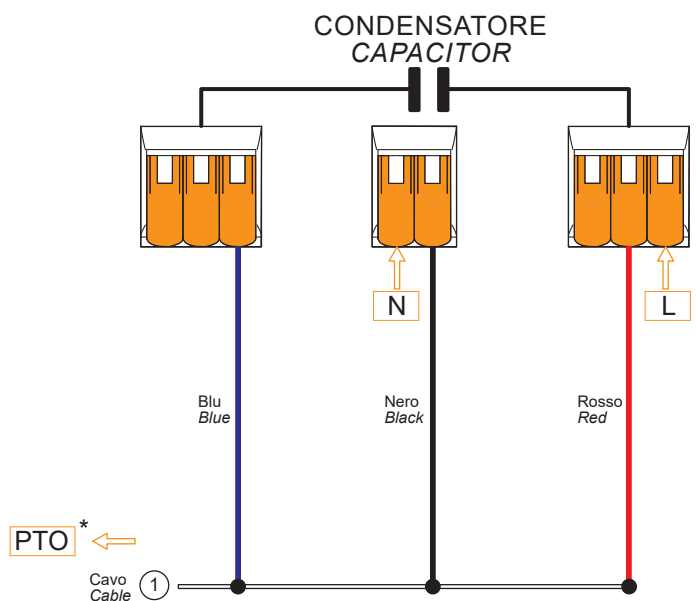
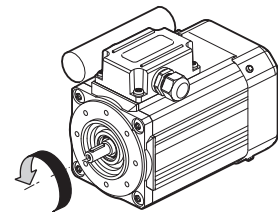
Monofase da SMM 56... a SMM 71... / Single phase from SMM 56... to SMM 71...



Morsetti a levetta liberi per alimentazione motore

Splicing connector with free-lever for the motor power source

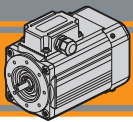
Senso di rotazione antiorario  
Counter-clockwise direction of rotation



\*: 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

<b>TRANSTECNO</b>					
Via Caduti di Sabbiano, 11 D/E 40011 Anzola Emilia (BO)		IEC 60034-1		E511911	
3~Mot	<b>SMT7124B14UL</b>	<b>MADE IN ITALY</b>			
<b>SN T345200090001</b>					
IP66		PTO 150		T amb 40°C	
$\Delta$ V Y	$\Delta$ A Y	kW	min <sup>-1</sup>	Hz	Cosφ
230/400	1,89/1,09	0,37	1400	50	0,72
460	1,09	0,42	1730	60	0,70
± 10%	CONT	CL.F	IC411		
<a href="http://www.transtecno.com">www.transtecno.com</a>					
no warranty if removed					



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