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small but strong

SM



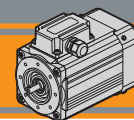
AC

Motori elettrici asincroni CA
AC asynchronous electric motors



MINI  **TECNO**™ brand of
TRANSTECNO®

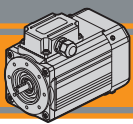




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Caratteristiche tecniche

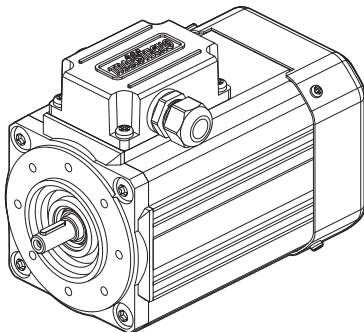
Technical characteristics

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

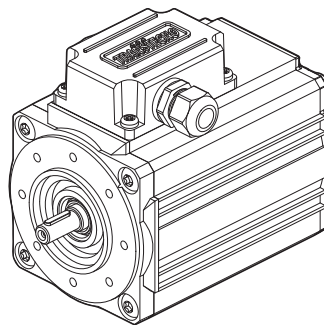
SMT and SMM motor range has the following main features:

- Costruzione compatta
- Motorizzazioni in corrente alternata monofase e trifase
- Carcassa estrusa in alluminio anodizzato nero
- Motore elettrico AC con grado di protezione IP66 eccetto il condensatore.
- 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)
- Protezione termica PTO 150°C per le taglie 56, 63 e 71.
- SMT56, SMT63 e SMT71 adatti al funzionamento con alimentazione da inverter.
- 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%).
- Disponibili nelle versioni autofrenante, servoventilata e con certificazione UL.

- *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) and not ventilated TENV (duty S3) versions available*
- *PTO 150°C thermal protection for motor sizes 56, 63 and 71.*
- *SMT56, SMT63 and SMT71 are suitable for inverter duty.*
- *Motor shaft hexagon 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%).*
- *Brake motors, forced ventilation motors and UL compliance versions available.*



SM .. TEFC



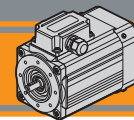
SM .. TENV





Designazione

Classification

MOTORE TRIFASE / THREE PHASE MOTOR									
SMT	63	2	4	0.18 kW	B14	230-400 V	50 Hz	TEFC	BR
Tipo Type	Grandezza Size	Indicativo potenza Power coefficient	Poli Poles	Potenza Power	Forma costruttiva Version	Tensione Voltage	Frequenza Frequency	Ventilazione Fan cooling	Opzioni Options
SMT 	Vedi tabelle See tables	1-2-3-4-5	4	0.04 kW ... 0.75 kW	B14	230-400 V 460V	50Hz 60Hz	TEFC TENV	BR → SV → UL-CSA →



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	Opzioni Options
SMM	Vedi tabelle See tables	1-2-3-4	4	0.04 kW ... 0.55 kW	B14	230V 115V (UL-CSA)	50Hz	TEFC TENV	UL-CSA → AD1
 									

Simbologia e formule
Symbols and formulas

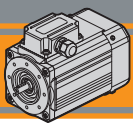
P_n	[kW]	Potenza nominale	<i>Rated power</i>
I_n	[A]	Corrente nominale (a 400V)	<i>Rated current (at 400V)</i>
M_n	[Nm]	Coppia nominale	<i>Rated torque</i>
n_n	[rpm]	Velocità nominale	<i>Rated speed</i>
M_s / M_n		Rapporto coppia spunto / coppia nominale	<i>Ratio start torque / rated torque</i>
M_k / M_n		Rapporto coppia massima / coppia nominale	<i>Ratio max torque / rated torque</i>
I_s / I_n		Rapporto corrente di spunto / corrente nominale	<i>Ratio start current / rated current</i>
$\cos\varphi$		Fattore di potenza al carico nominale	<i>Power factor at rated torque load</i>
η		Rendimento al carico nominale	<i>Efficiency at rated torque load</i>
Potenza Power	[HP]	Potenza [kW] x 1.341	<i>Power [kW] x 1.341</i>
Potenza resa P_n P_n output power	[kW]	Potenza assorbita x η	<i>Absorbed power x η</i>
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

TAGLIA SIZE	P_n [kW]	M_n [Nm]	n_n [min ⁻¹]	I_n (400V) [A]	η %	$\cos\varphi$	M_s/M_n	I_s/I_n	M_k/M_n	PTO [°C]	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		S3 75%	
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	PTO 150°	S1	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			
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			

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 %	$\cos\varphi$	M_s/M_n	I_s/I_n	M_k/M_n	Cond/cap [μF]	PTO [°C]	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	PTO 150°	S1	S3 50%
5624	0.09	0.63	1370	0.82	48.6	0.98	0.72	1.70	1.45	6.3			
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			
7134	0.55	3.95	1330	3.54	68.9	0.98	0.66	2.40	1.40	25.0			

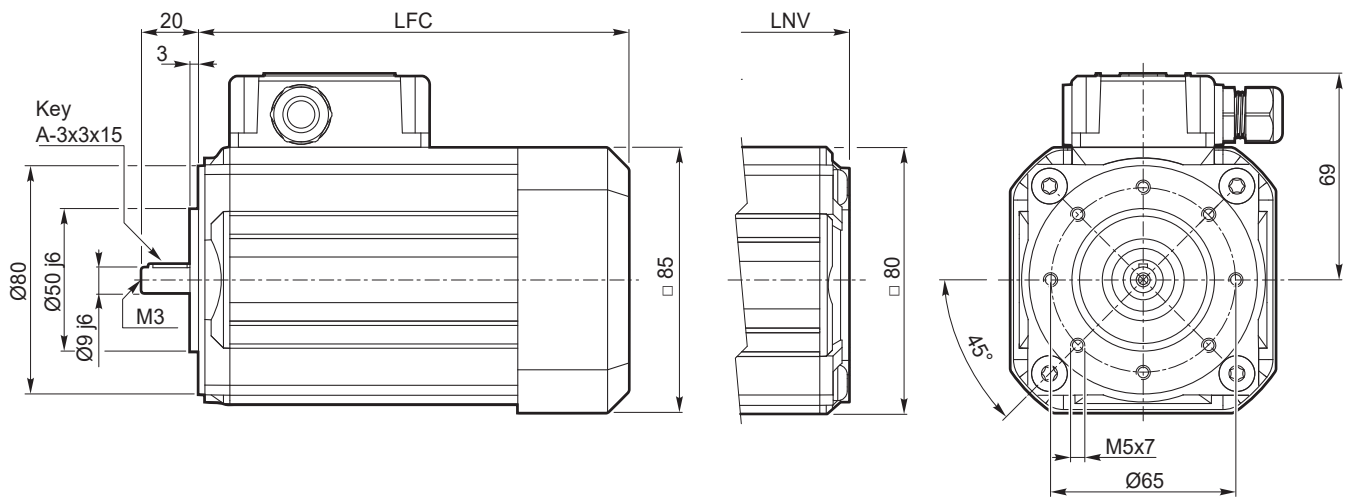


Dimensioni motori trifase

Three phase motors dimensions

3~

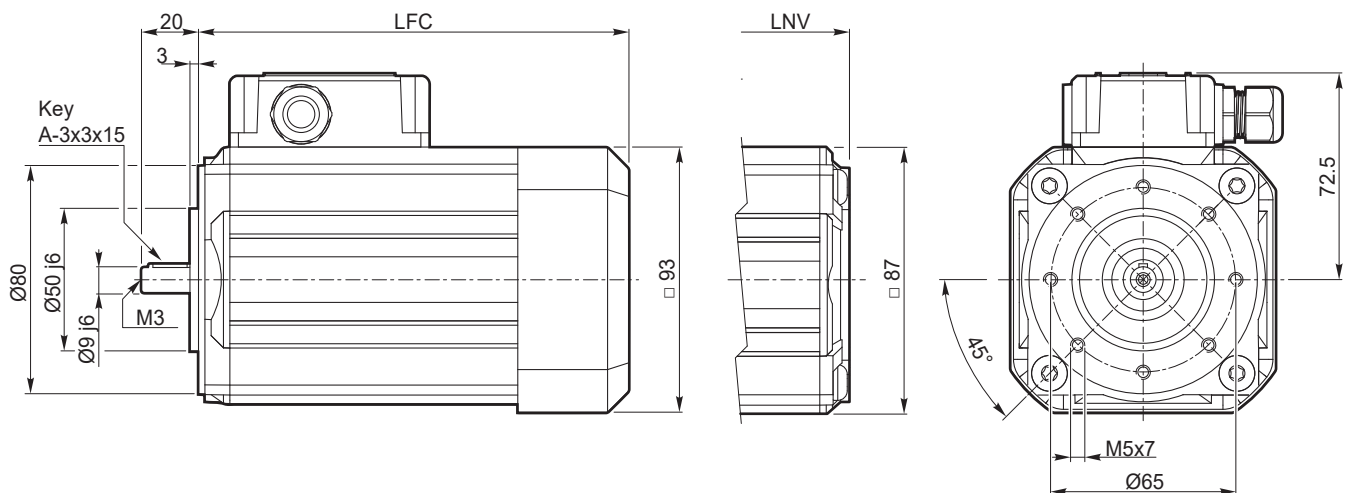
SMT50.. - B14 - TEFC / TENV



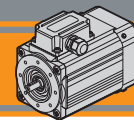
SMT	... TEFC		... TENV	
	LFC	kg	LNV	kg
5014	135.5	2.3	108.5	2.2
5024	150.5	2.7	123.5	2.6
5034	175.5	3.5	148.5	3.4
5044	200.5	4.2	173.5	4.1

3~

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

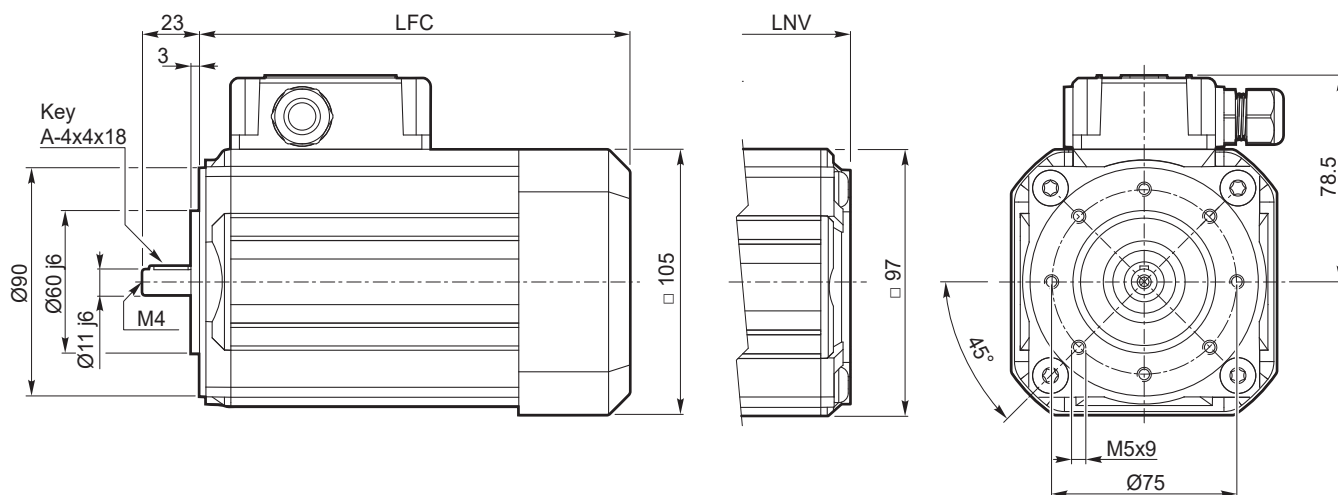


Dimensioni motori trifase

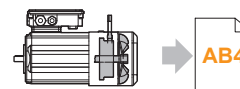
Three phase motors dimensions

3~

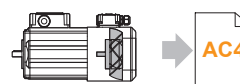
SMT63.. - B14 - TEFC / TENV



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



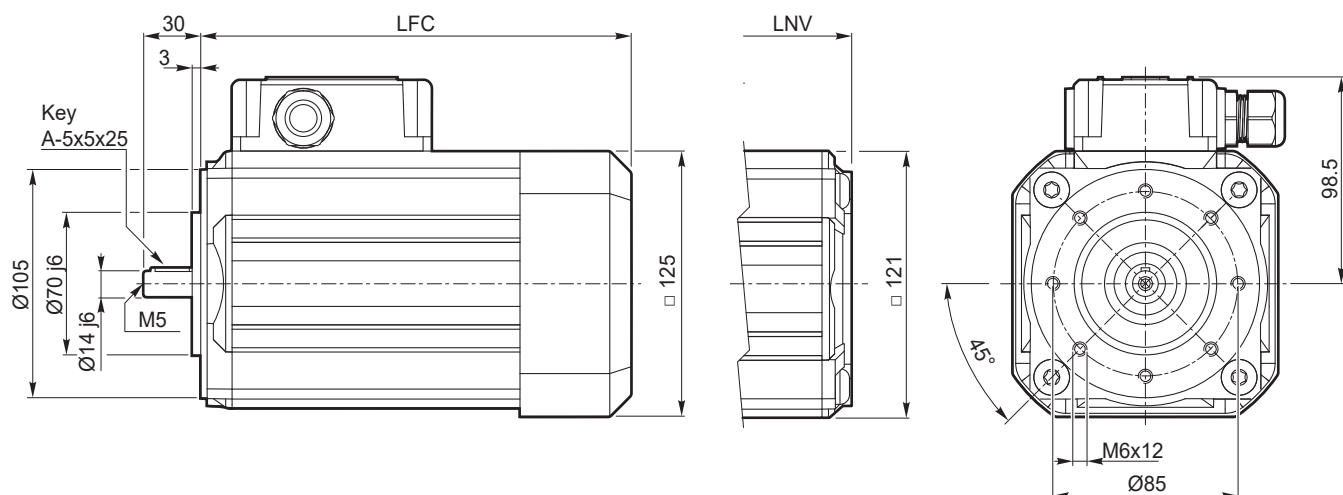
SM..BR..
Motori autofrenanti
Brake motors



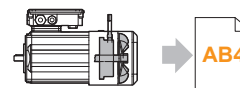
SM..V..
Motori servoventilati
Motors with forced-ventilation

3~

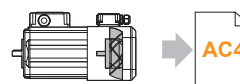
SMT71.. - B14 - TEFC / TENV



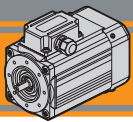
SMT	... TEFC		... TENV	
	LFC	kg	LNV	kg
7124	174	6.6	145.5	6.4
7134	189	7.7	160.5	7.5
7144	214	9.4	185.5	9.2



SM..BR..
Motori autofrenanti
Brake motors



SM..V..
Motori servoventilati
Motors with forced-ventilation

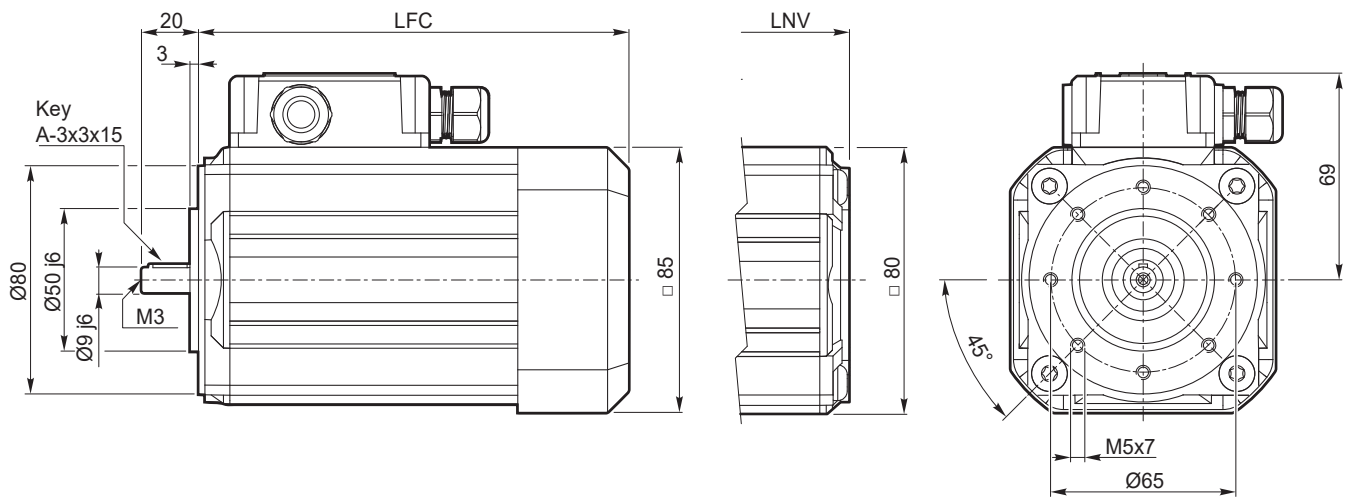


Dimensioni motori monofase

Single phase motors dimensions

1~

SMM50.. - B14 - TEFC / TENV



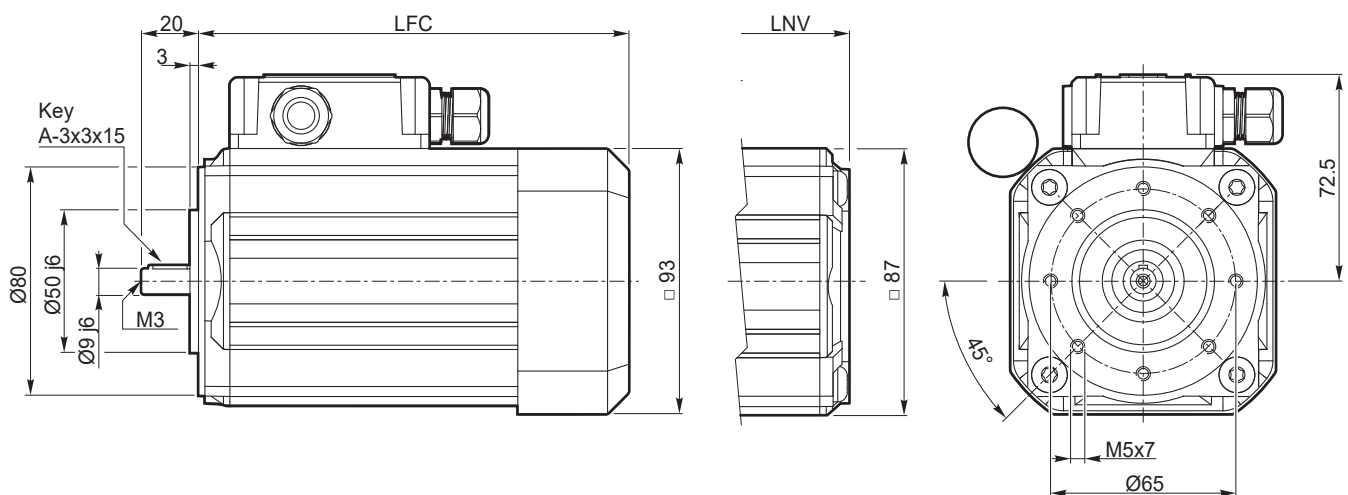
SMM	... TEFC		... TENV	
	LFC	kg	LNV	kg
5014	150.5	2.7	123.5	2.6
5024	175.5	3.5	148.5	3.4
5034	200.5	4.2	173.5	4.1

Nota:
il condensatore sarà fornito a corredo

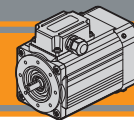
Note:
the capacitor will be supplied separately

1~

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

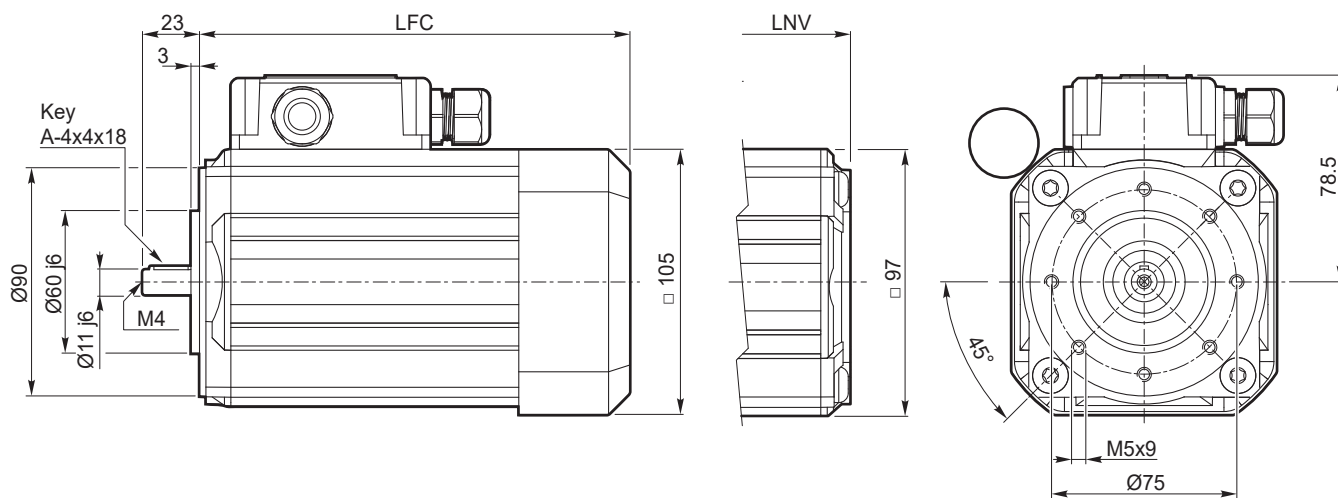


Dimensioni motori monofase

Single phase motors dimensions

1 ~

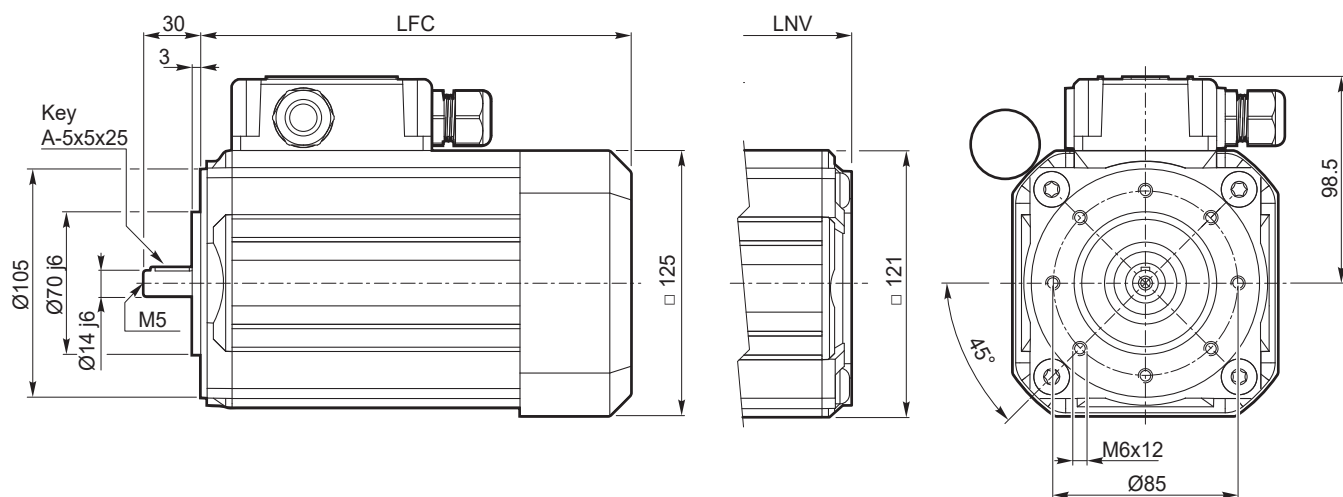
SMM63.. - B14 - TEFC / TENV



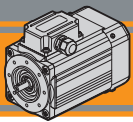
SMM	... TEFC		... TENV	
	LFC	kg	LNV	kg
6324	180.5	5.1	153.5	5.0
6334	205.5	6.2	178.5	6.1

1 ~

SMM71.. - B14 - TEFC / TENV

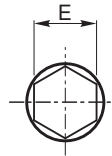
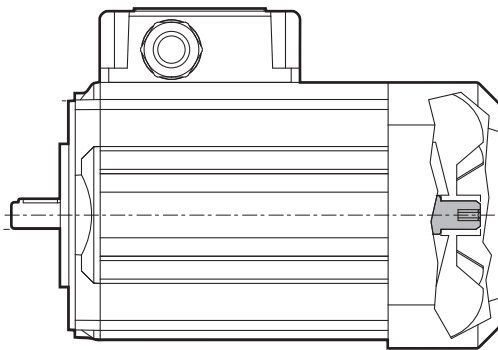


SMM	... TEFC		... TENV	
	LFC	kg	LNV	kg
7124	189	7.3	160.5	7.1
7134	214	9.2	185.5	9.0



Cava esagonale

Hexagonal socket



Esagono / Hexagon

SM..	E
50	
56	4
63	
71	6

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.

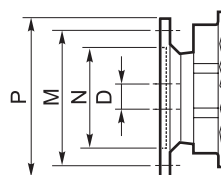
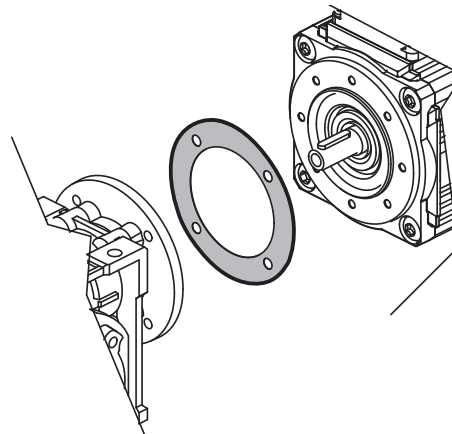
Note:

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

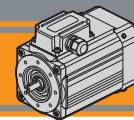
The switchgear for the motor must be padlockable in order to prevent the power supply from being accidentally reset. It is strictly prohibited to put the electric motor into service if the fan cover is not fitted.

Opzione guarnizione CA

Rubber gasket option



Dimensioni IEC / IEC Dimensions			
	56 B14	63 B14	71 B14
N	50	60	70
M	65	75	85
P	80	90	105
D	9	11	14


Grado di protezione IP
IP protection rating

Indica il grado di isolamento meccanico del corpo motore.















1^a cifra protezione alla penetrazione di corpi solidi.

2^a cifra protezione contro la penetrazione d'acqua.

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

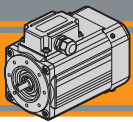
The 1st figure indicates the level of protection against the intrusion of solid matter.

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. <i>Protected against solid matter (over Ø 50 mm).</i>	1		Protetto contro la caduta verticale di gocce d'acqua. <i>Protected against drops of water falling vertically.</i>
2		Protetto da corpi solidi superiori a Ø 12 mm. <i>Protected against solid matter (over Ø 12 mm).</i>	2		Protetto contro la caduta verticale di gocce d'acqua con inclinazione max di 15°. <i>Protected against drops of water falling up to 15°.</i>
3		Protetto da corpi solidi superiori a Ø 2.5 mm. <i>Protected against solid matter (over Ø 2.5 mm).</i>	3		Protetto contro la pioggia. <i>Rain proof.</i>
4		Protetto da corpi solidi superiori a Ø 1 mm. <i>Protected against solid matter (over Ø 1 mm).</i>	4		Protetto contro gli spruzzi. <i>Splash proof.</i>
5		Protetto contro la polvere. <i>Dust protected.</i>	5		Protetto contro getti d'acqua. <i>Water jet proof.</i>
6		Totalmente protetto contro la polvere. <i>Fully dust tight.</i>	6		Protetto dalle ondate. <i>Waveproof.</i>
7	N.A.	N.A.	7		Protetto contro immersione. <i>Immersion up to 1 metre.</i>
8	N.A.	N.A.	8		Protetto contro immersione/sommersione prolungata. <i>Immersion beyond 1 metre.</i>

AC
Normative di riferimento
Reference Standards

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



Tipi di servizi IEC

IEC duty cycles

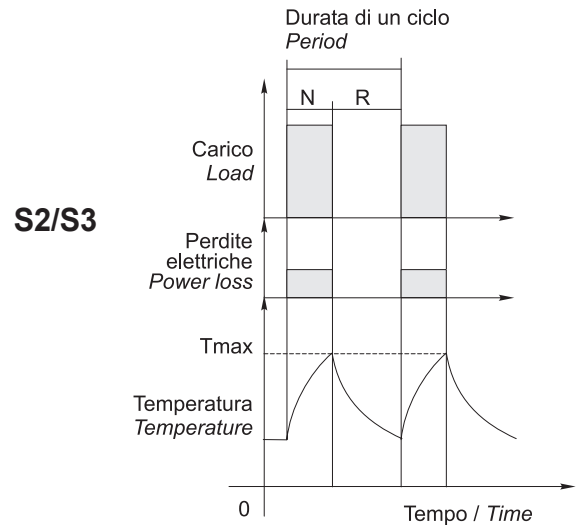
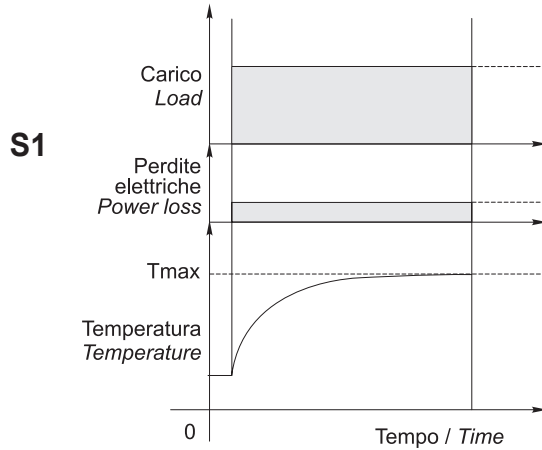
Il servizio di un motore indica il tipo di utilizzo e la gravosità del ciclo di lavoro.

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



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.

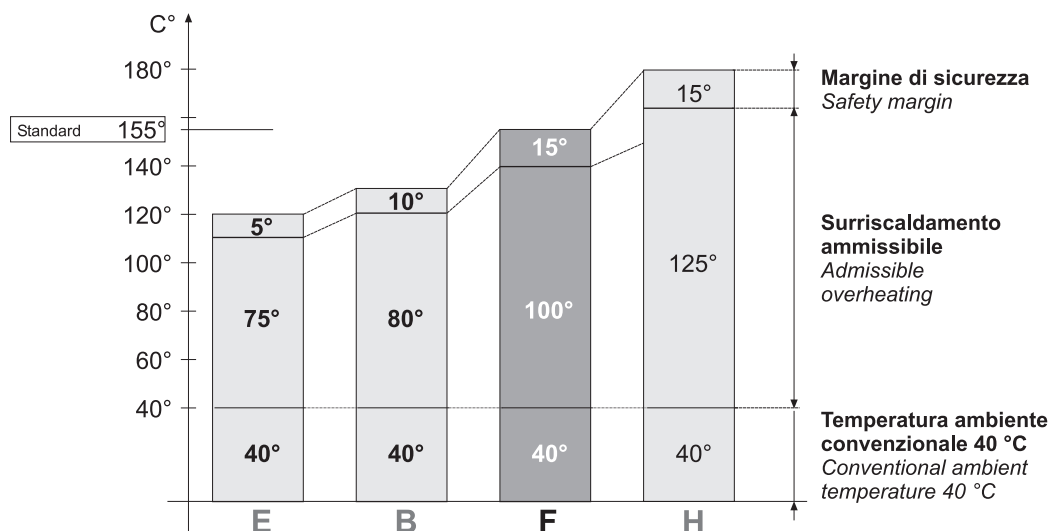
Classe di isolamento termico

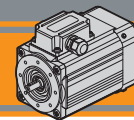
Insulation class

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

Serie SMM / SMM Series

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

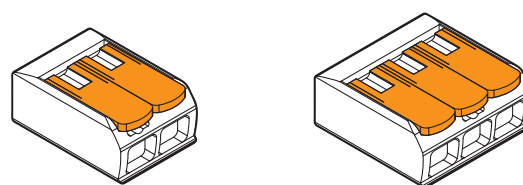
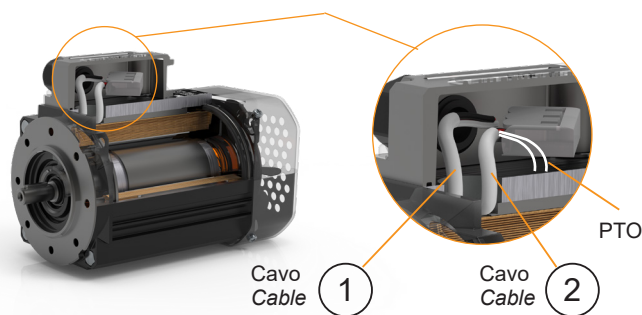
TAGLIA SIZE	Pressacavo Cable gland
50 / 56 / 63	n°2 - M16x1.5
71	M20x1.5 + M16x1.5

Connessioni e collegamenti

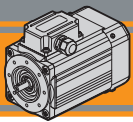
Connection diagram

Riferimenti

References



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

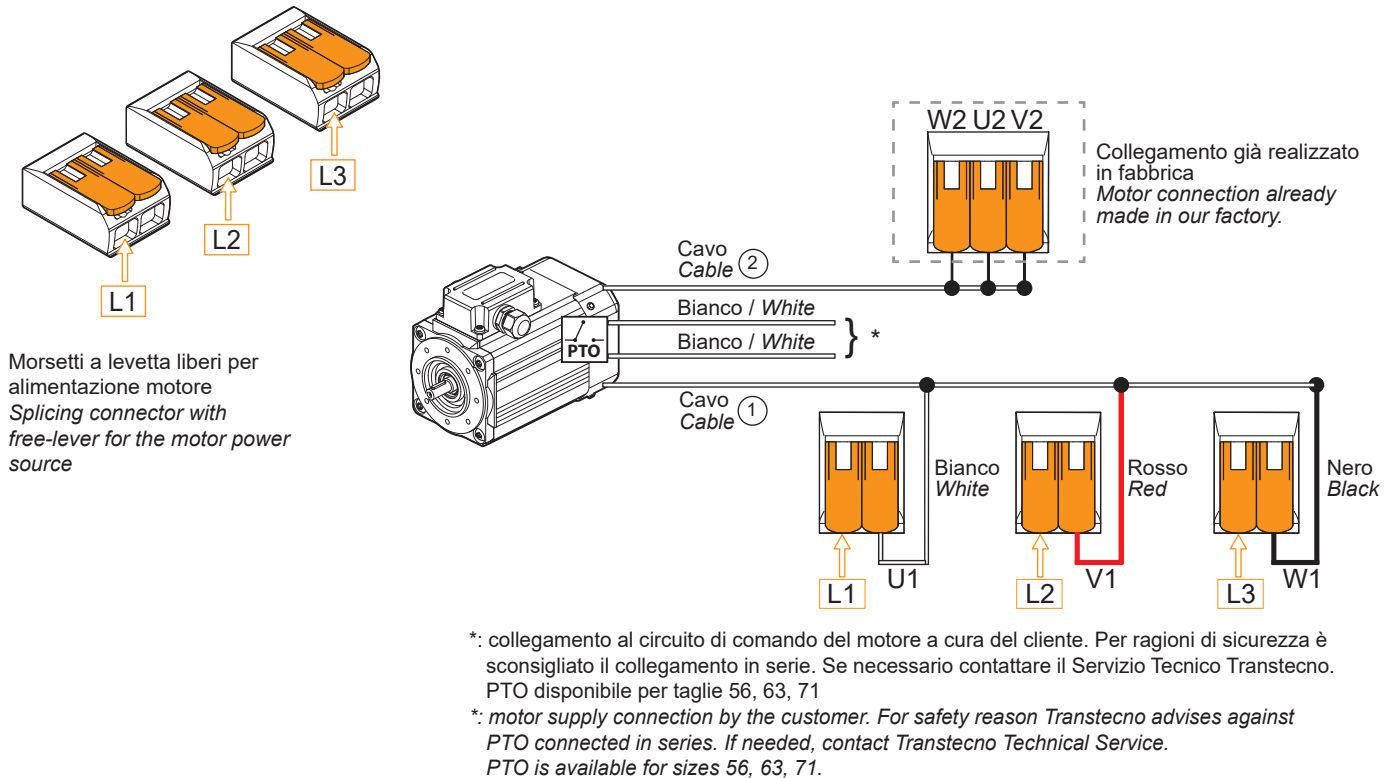


Connessioni e collegamenti

Connection diagram

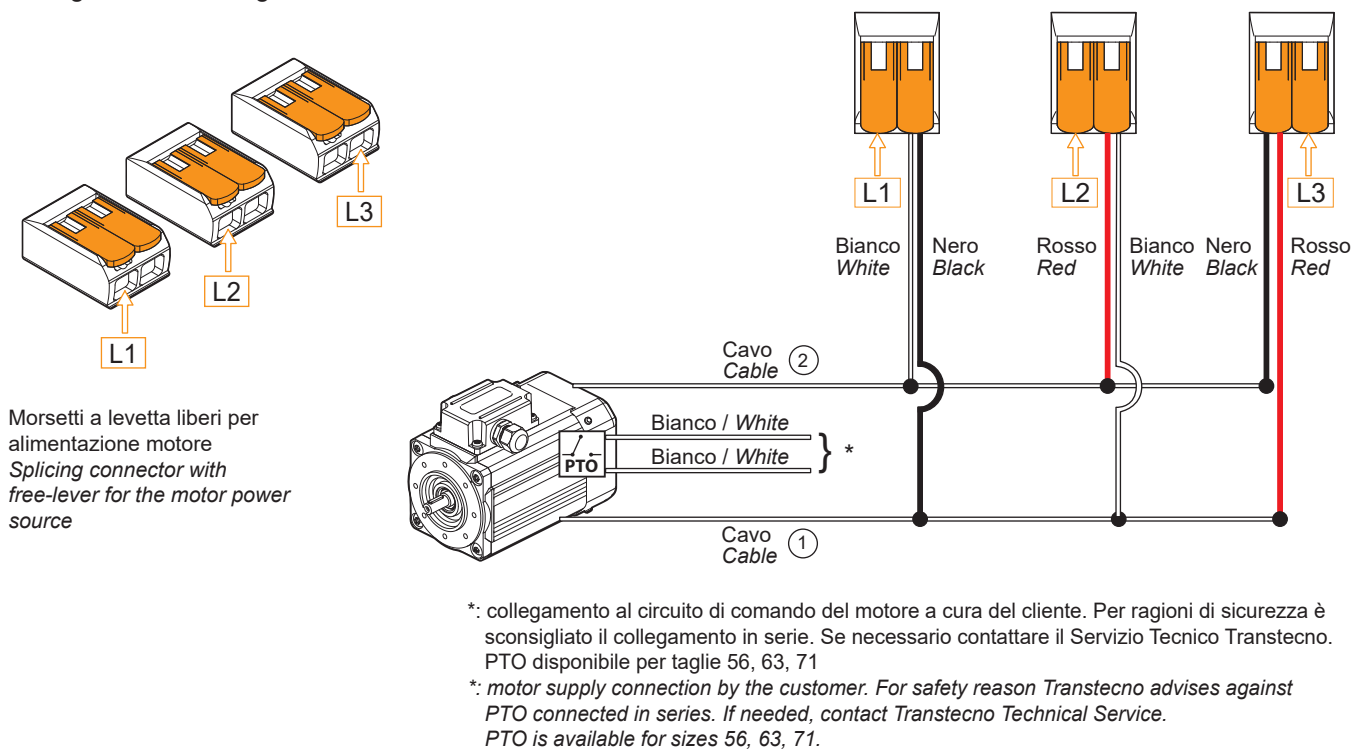
400/460 V - Trifase / Three phase

Collegamento a stella / Star connection



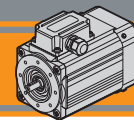
230 V - Trifase / Three phase

Collegamento a triangolo / Delta connection



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. Se necessario contattare il Servizio 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.

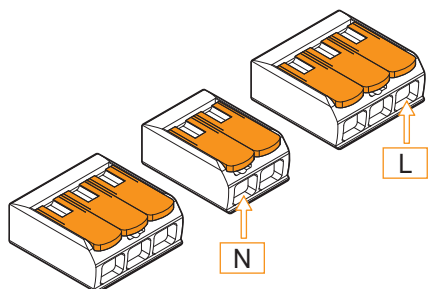


Connessioni e collegamenti

Connection diagram

230 V - Monofase / Single phase

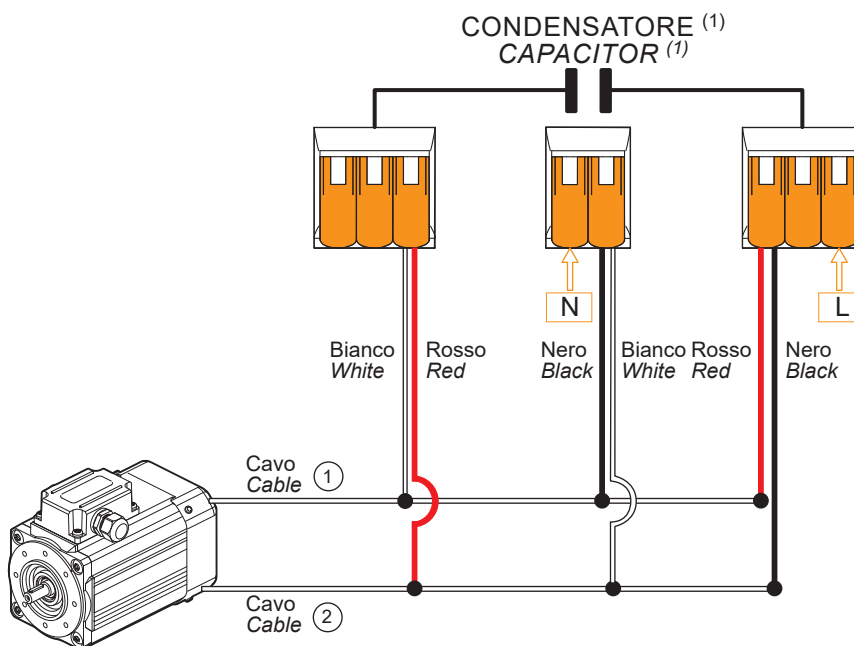
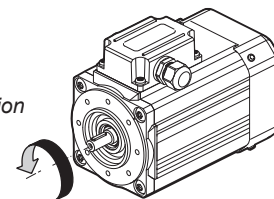
Monofase SMM 50... / Single phase SMM 50...



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

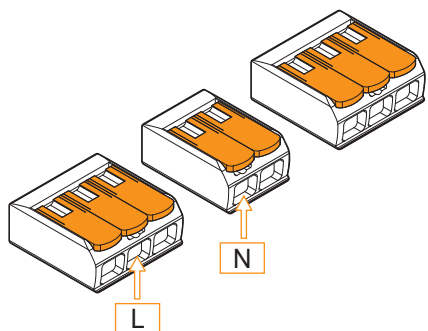
(1): il condensatore sarà fornito a corredo.
(1): *the capacitor will be supplied separately.*

Senso di rotazione antiorario
Counter-clockwise direction of rotation



230 V - Monofase / Single phase

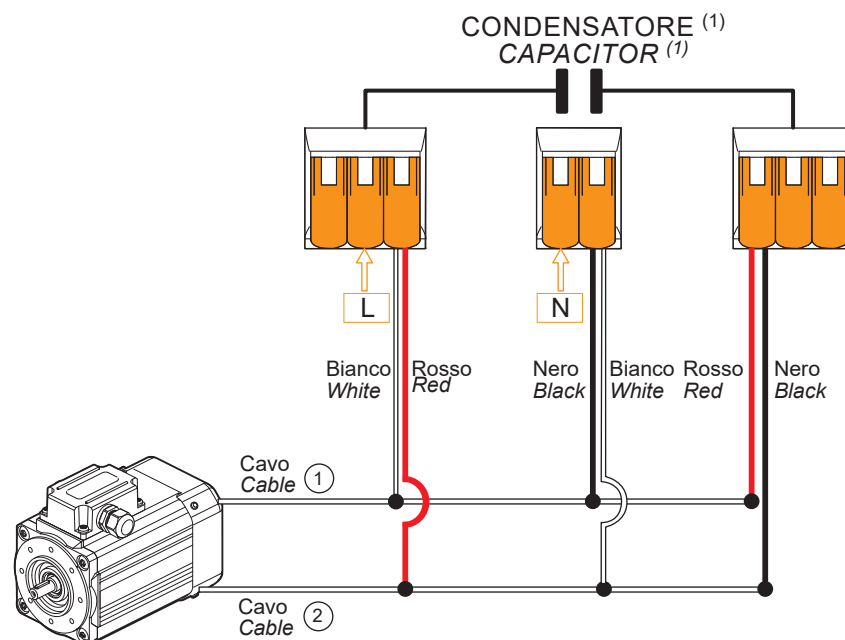
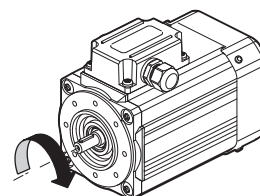
Monofase SMM 50... / Single phase SMM 50...

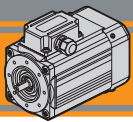


Morsetti a levetta liberi per alimentazione motore
Splicing connector with free-lever for the motor power source

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

Senso di rotazione orario
Clockwise direction of rotation



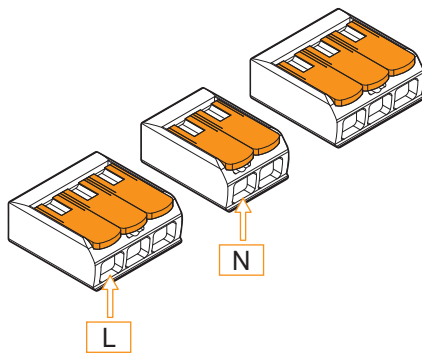


Connessioni e collegamenti

Connection diagram

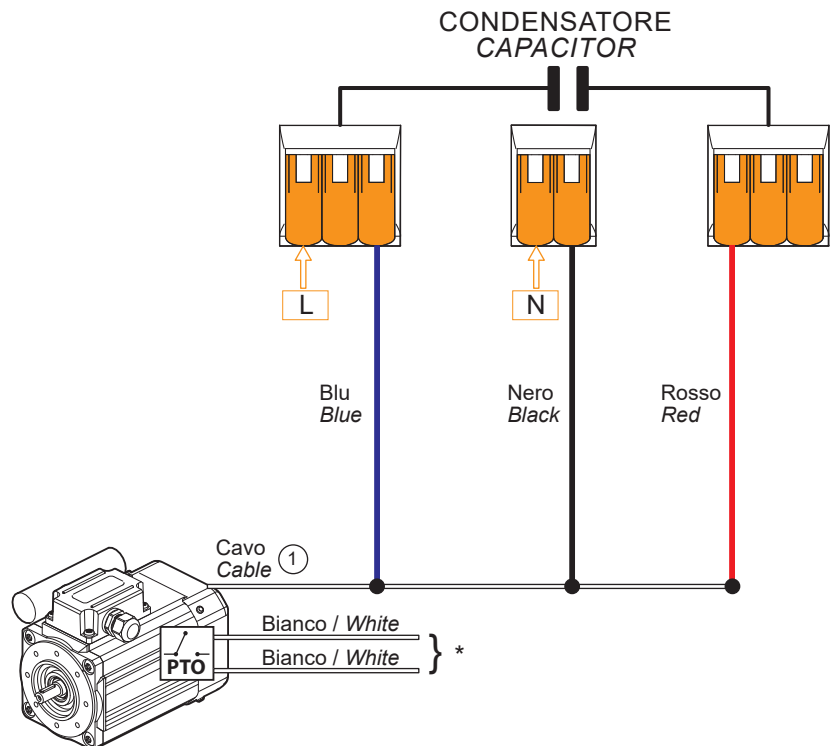
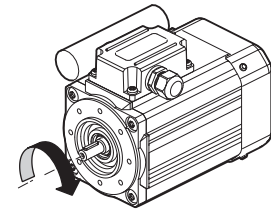
230 V - Monofase / Single phase

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



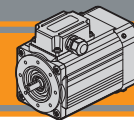
Morsetti a levetta liberi per alimentazione motore
Splicing connector with free-lever for the motor power source

Senso di rotazione orario
Clockwise direction of rotation



*: 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. PTO disponibile per taglie 56, 63, 71

*: motor supply connection by the customer. For safety reason Transtecno advises against PTO connected in series. If needed, contact Transtecno Technical Service. PTO is available for sizes 56, 63, 71.

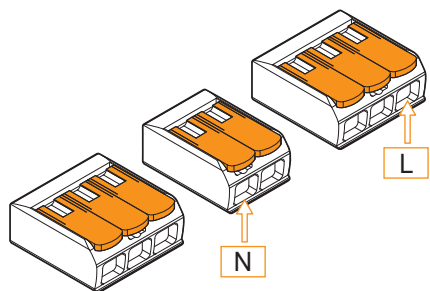


Connessioni e collegamenti

Connection diagram

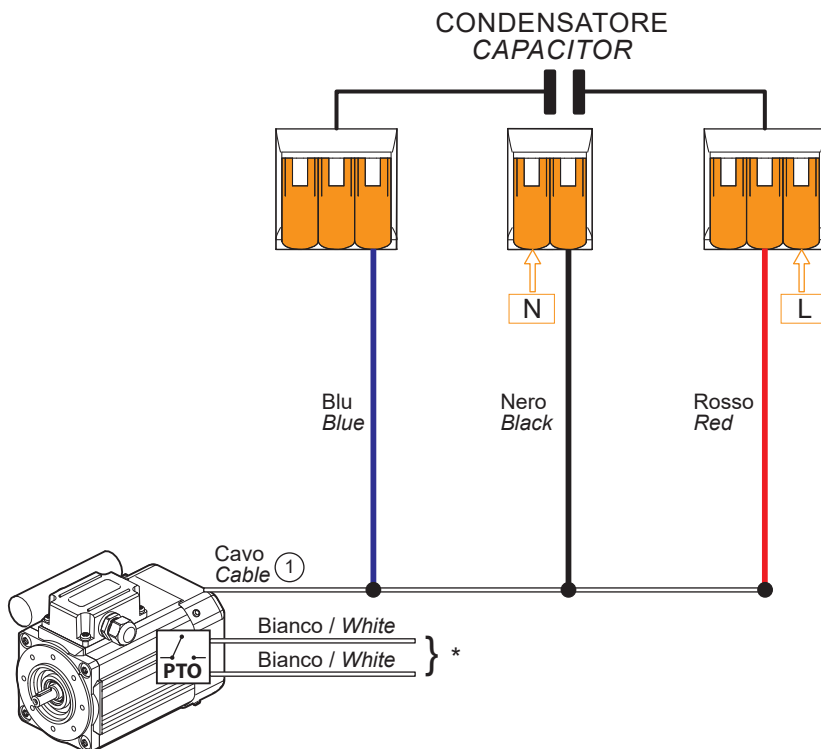
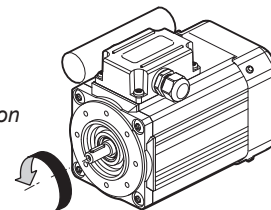
230 V - Monofase / Single phase

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



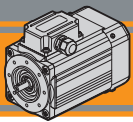
Morsetti a levetta liberi per alimentazione motore
Splicing connector with free-lever for the motor power source

Senso di rotazione antiorario
Counter-clockwise direction of rotation



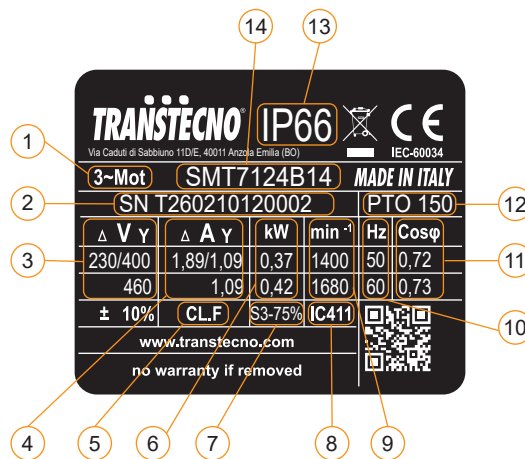
*: collegamento al circuito di comando del motore a cura del cliente. Per ragioni di sicurezza è sconsigliato il collegamento in serie. Se necessario contattare il Servizio Tecnico Transtecno. PTO disponibile per taglie 56, 63, 71

*: motor supply connection by the customer. For safety reason Transtecno advises against PTO connected in series. If needed, contact Transtecno Technical Service. PTO is available for sizes 56, 63, 71.



Targhetta

Nameplate



Pos.	Descrizione	Description
1	Tipo di alimentazione	Power supply
2	Numero di serie	Serial number
3	Tensione di alimentazione	Supply voltage
4	Corrente nominale	Rated current
5	Classe di isolamento	Insulation class
6	Potenza nominale	Rated power
7	Servizio	Duty
8	Ventilazione	Fan cooling
9	Velocità nominale	Rated speed
10	Frequenza nominale	Rated frequency
11	Fattore di potenza	Power factor
12	Protezione termica PTO 150°C	PTO 150°C Thermal protection
13	Grado di protezione IP	IP protection rating
14	Tipo motore	Motor type

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