

TRANSTECNO[®]
the modular gearmotor

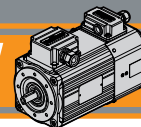
SMT..SV

SMT..SV



Motori elettrici AC servoventilati
AC electric motors with forced-ventilation

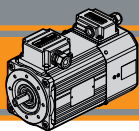




| Indice | Index | Pag. Page |
|---|--|--------------|
| Caratteristiche tecniche | <i>Technical features</i> | P2 |
| Designazione | <i>Classification</i> | P2 |
| Simbologia e formule | <i>Symbols and formulas</i> | P3 |
| Dati tecnici | <i>Technical data</i> | P3 |
| Dimensioni motori trifase | <i>Three phase motors dimensions</i> | P4 |
| Opzione guarnizione CA | <i>Rubber gasket option</i> | P6 |
| Gradi di protezione IP | <i>IP protection rating</i> | P6 |
| Tipo di servizio IEC | <i>IEC duty cycles</i> | P7 |
| Classe di isolamento termico | <i>Insulation class</i> | P7 |
| Serie SM - Funzionamento a 60 Hz | <i>Series SM - 60 Hz line power supply</i> | P8 |
| Tabella pressacavi | <i>Table of cable glands data</i> | P8 |
| Connessioni e collegamenti - Motore | <i>Connection diagram - Motor</i> | P8 |
| Connessioni e collegamenti - Servoventola | <i>Connection diagram - Servo fan</i> | P10 |
| Targhetta | <i>Nameplate</i> | P10 |

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Caratteristiche tecniche

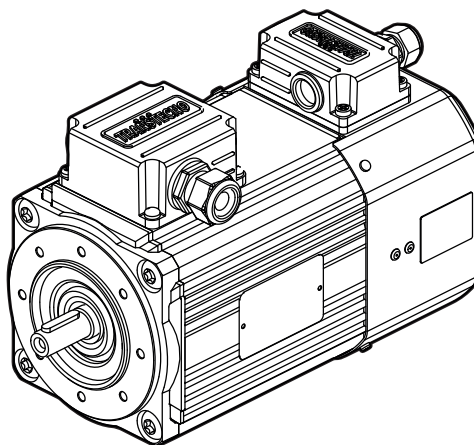
Technical characteristics

I motori della serie SMT.SV hanno le seguenti caratteristiche principali:

SMT.SV motor range has the following main features:

- Costruzione compatta
- Motorizzazioni in corrente alternata trifase
- Carcasa estrusa in alluminio anodizzato nero
- Motore elettrico CA con grado di protezione IP 66 (solo motore - servoventola con grado di protezione IP44)
- Rumorosità e vibrazioni contenute
- Isolamento termico di classe F
- Flangia motore IEC B14
- Temperatura ambiente: 0°C / + 40°C (Per utilizzo a temperature diverse contattare il ns. servizio tecnico)
- Protezioni termiche PTO 150°C
- Adatti al funzionamento con alimentazione da inverter
- SMT80 e SMT90 conformi alla classe di rendimento IE3.
- La tolleranza di tensione è ±10% per tutti i motori

- Compact design
- AC three phase motors available
- Black anodized extruded aluminium housing
- AC Electric motors with IP66 Protection standard (only motor - Servo fan with IP44 protection Standard)
- Low noise and vibrations
- Class F insulation Standard
- Motor flange IEC B14
- Ambient temperature: 0°C / +40°C (For different temperatures contact Transtecno Technical Dept)
- PTO 150°C thermal protection
- Suitable to be driven by inverter
- SMT80 and SMT90 in compliance to the Standard efficiency class IE3
- The voltage tolerance is ±10% for all motors





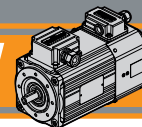
SMT.SV



Designazione

Classification

| MOTORE TRIFASE SERVOVENTILATO / THREE PHASE MOTOR WITH FORCED-VENTIATION | | | | | | | | |
|---|----------------------------|---|---------------|--------------------------|------------------------------|--|------------------------|-----------------------------|
| SMT | 63 | 2 | 4 | 0.18 kW | B14 | 230-400 V | 50 Hz | SV |
| 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 | 0.18 kW ... 2.2 kW | B14 | 230-400 V 460V a richiesta on request | 50Hz 60Hz | SV |
|  | | | | | | | | |
|  | | | | | | | | |



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 |
| $\cos\phi$ | | Fattore di potenza al carico nominale | Power factor at rated torque load |
| η | | Rendimento al carico nominale | Efficiency at rated torque load |
| P_{sf} | [W] | Potenza assorbita servoventola | Electric fan power |
| 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] | $\frac{\sqrt{x} \cdot I \cdot \cos\phi}{1000}$ (monofase) | $\frac{\sqrt{x} \cdot I \cdot \cos\phi}{1000}$ (singlephase) |
| | | $\frac{\sqrt{x} \cdot I \cdot \sqrt{3} \cdot \cos\phi}{1000}$ (trifase) | $\frac{\sqrt{x} \cdot I \cdot \sqrt{3} \cdot \cos\phi}{1000}$ (threephase) |
| I_n (230 V) | | I_n (400 V) x $\sqrt{3}$ | I_n (400 V) x $\sqrt{3}$ |

Dati tecnici

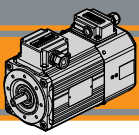
Technical data

SMT..SV Motori trifase servoventilati / SMT..SV Three phase motors with forced-ventilation (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 % | $\cos\phi$ | M_s/M_n | I_s/I_n | M_k/M_n | PTO [°C] | Servizio Duty SV | IP Motore Motor | IP Servoventola Foced vent. | P_{sf} [W] |
|----------------|------------------|---------------|-------------------------------|------------------------|-------------|------------|-----------|-----------|-----------|-------------|------------------------|-----------------------|-----------------------------------|-----------------|
| SMT6324B14.SV | 0.18 | 1.26 | 1360 | 0.69 | 57.0 | 0.66 | 2.50 | 2.90 | 2.50 | PTO 150° | S3 75% | 66 | 44 | 11-9 |
| SMT6334B14.SV | 0.25 | 1.74 | 1375 | 0.94 | 62.0 | 0.64 | 2.80 | 3.00 | 2.80 | | | | 44 | 11-9 |
| SMT6344B14.SV | 0.37 | 2.60 | 1360 | 1.24 | 65.3 | 0.66 | 2.70 | 3.00 | 2.70 | | | | 44 | 11-9 |
| SMT7124B14.SV | 0.37 | 2.52 | 1400 | 1.10 | 67.9 | 0.72 | 2.75 | 4.20 | 2.75 | | | | 44 | 14-16 |
| SMT7134B14.SV | 0.55 | 3.76 | 1395 | 1.55 | 70.2 | 0.73 | 2.90 | 4.40 | 2.90 | | | | 44 | 14-16 |
| SMT7144B14.SV | 0.75 | 5.09 | 1405 | 2.00 | 74.0 | 0.73 | 2.90 | 5.00 | 2.90 | | | | 44 | 14-16 |
| IE3 | SMT8024B14IE3.SV | 0.75 | 4.96 | 1440 | 1.94 | 82.5 | 3.6 | 6.00 | 3.70 | S1 | | | 44 | 14-16 |
| | SMT8034B14IE3.SV | 1.1 | 7.25 | 1450 | 2.91 | 84.1 | 4.0 | 6.80 | 4.40 | | | | 44 | 14-16 |
| | SMT9024B14IE3.SV | 1.5 | 10.0 | 1430 | 3.48 | 85.3 | 3.2 | 6.30 | 3.50 | | | | 44 | 30-26 |
| | SMT9034B14IE3.SV | 2.2 | 14.9 | 1410 | 4.68 | 86.7 | 0.79 | 3.0 | 6.20 | | | | 3.30 | 44 |

Alimentazione della servoventola: 200-240 Vac / 50-60 Hz

Forced ventilation supply voltage: 200-240 Vac / 50-60 Hz

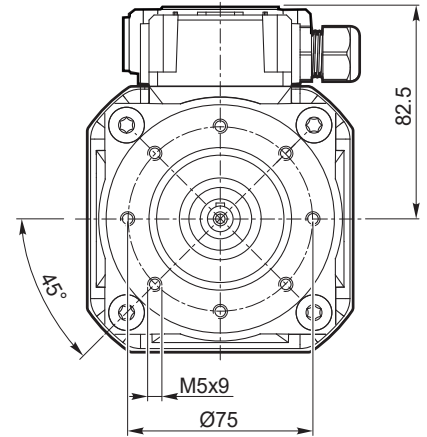
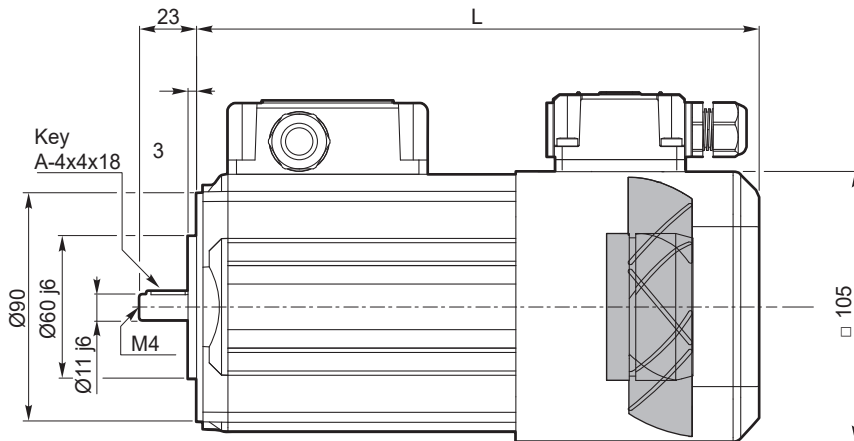


Dimensioni motori trifase

Three phase motors dimensions

3 ~

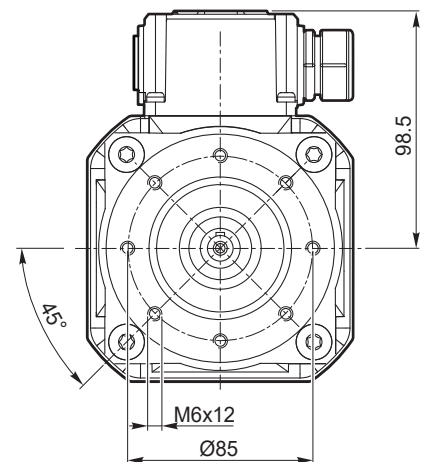
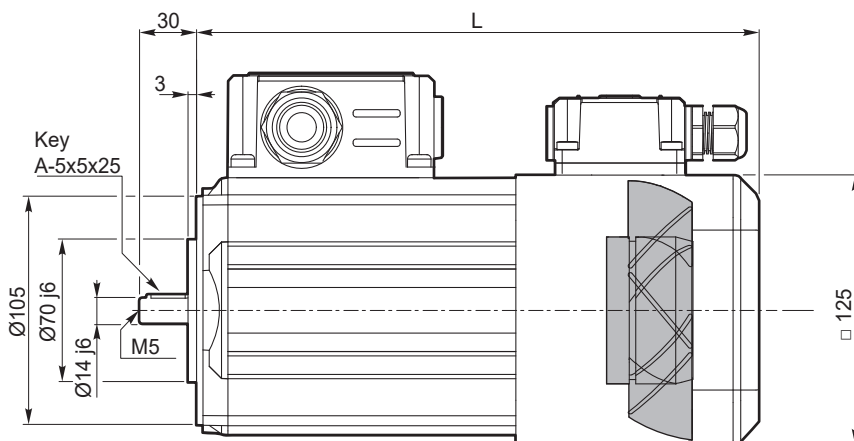
SMT63.. - B14 - SV



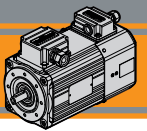
| SMT | ... SV | |
|------|--------|-----|
| | L | Kg |
| 6324 | 210 | 5.0 |
| 6334 | 225 | 5.7 |
| 6344 | 250 | 6.8 |

3 ~

SMT71.. - B14 - SV



| SMT | ... SV | |
|------|--------|------|
| | L | Kg |
| 7124 | 219 | 7.5 |
| 7134 | 234 | 8.5 |
| 7144 | 259 | 10.2 |

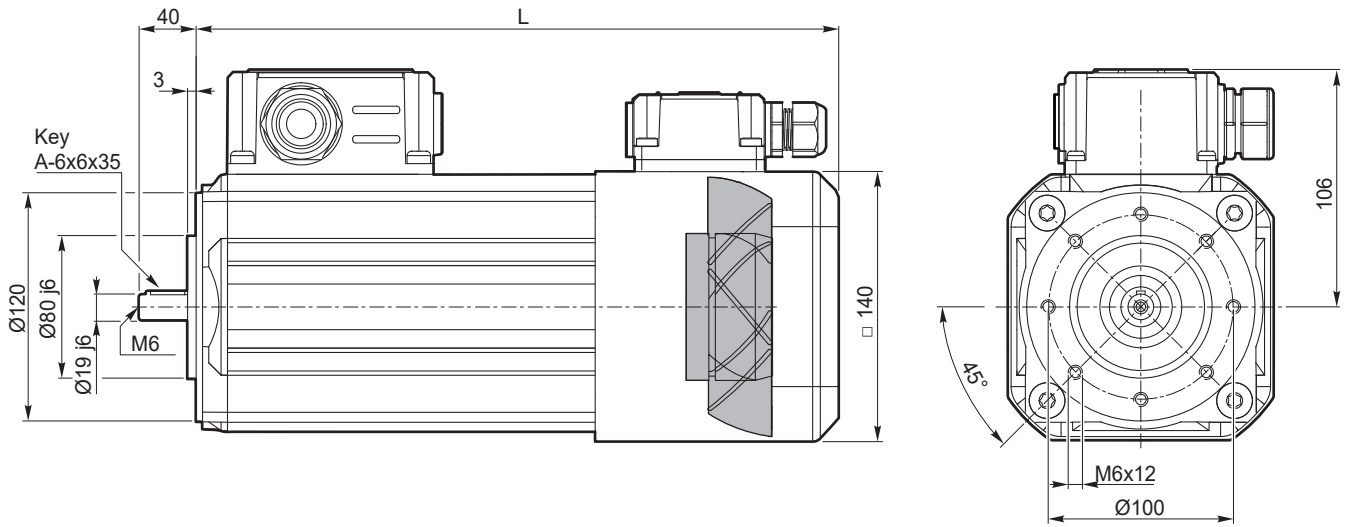


Dimensioni motori trifase

Three phase motors dimensions

3~

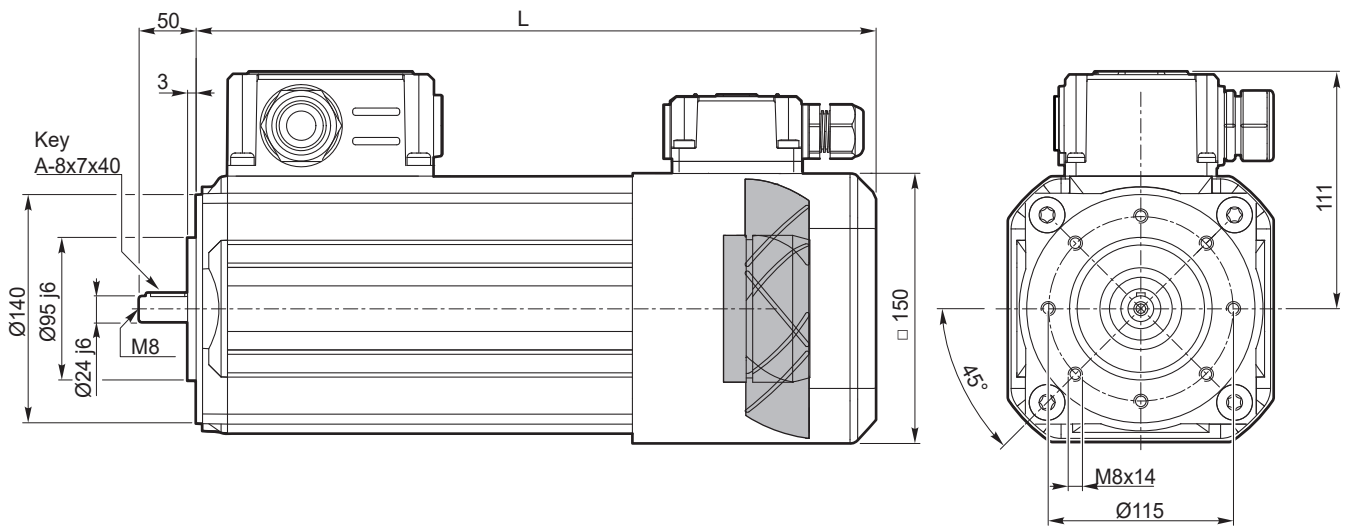
SMT80.. - B14 - SV



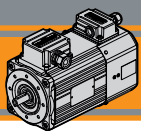
| SMT | ... SV | |
|------|--------|------|
| | L | Kg |
| 8024 | 278 | 12.7 |
| 8034 | 328 | 17 |

3~

SMT90.. - B14 - SV

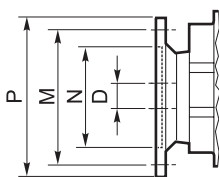
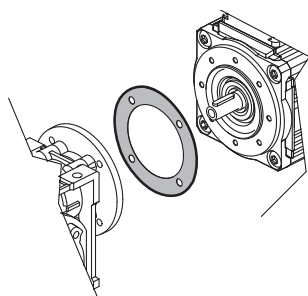


| SMT | ... SV | |
|------|--------|------|
| | L | Kg |
| 9024 | 341 | 19.3 |
| 9034 | 371 | 22.6 |



Opzione guarnizione CA

Rubber gasket option



| Dimensioni IEC / IEC Dimensions | | | | |
|---------------------------------|--------|--------|--------|--------|
| | 63 B14 | 71 B14 | 80 B14 | 90 B14 |
| N | 60 | 70 | 80 | 95 |
| M | 75 | 85 | 100 | 115 |
| P | 90 | 105 | 120 | 140 |
| D | 11 | 14 | 19 | 24 |

Grado di protezione IP

IP protection rating

Indica il grado di isolamento meccanico del corpo motore.

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

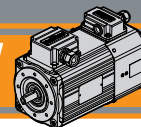
1ª cifra protezione alla penetrazione di corpi solidi.

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

2ª cifra protezione contro la penetrazione d'acqua.

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 | Ø 50 mm | Protetto da corpi solidi superiori a Ø 50 mm. Protected against solid matter (over Ø 50 mm). | 1 | 15° | Protetto contro la caduta verticale di gocce d'acqua. Protected against drops of water falling vertically. |
| 2 | Ø 12 mm | Protetto da corpi solidi superiori a Ø 12 mm. Protected against solid matter (over Ø 12 mm). | 2 | 15° | Protetto contro la caduta verticale di gocce d'acqua con inclinazione max di 15°. Protected against drops of water falling up to 15°. |
| 3 | Ø 2.5 mm | Protetto da corpi solidi superiori a Ø 2.5 mm. Protected against solid matter (over Ø 2.5 mm). | 3 | 60° | Protetto contro la pioggia. Rain proof. |
| 4 | Ø 1 mm | Protetto da corpi solidi superiori a Ø 1 mm. Protected against solid matter (over Ø 1 mm). | 4 | 60° | Protetto contro gli spruzzi. Splash proof. |
| 5 | Dust protected. | Protetto contro la polvere. Dust protected. | 5 | Water jet proof. | Protetto contro getti d'acqua. Water jet proof. |
| 6 | Fully dust tight. | Totalmente protetto contro la polvere. Fully dust tight. | 6 | Waveproof. | Protetto dalle ondate. Waveproof. |
| 7 | N.A. | N.A. | 7 | Immersion up to 1 metre. | Protetto contro immersione. Immersion up to 1 metre. |
| 8 | N.A. | N.A. | 8 | Immersion beyond 1 metre. | Protetto contro immersione/sommersione prolungata. Immersion beyond 1 metre. |



Tipi di servizi IEC

IEC duty cycles

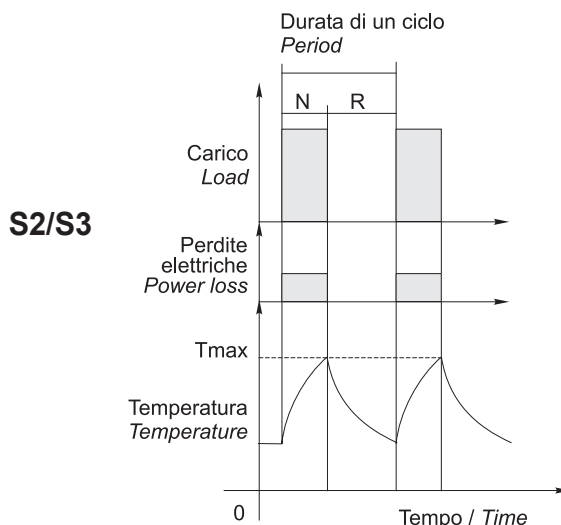
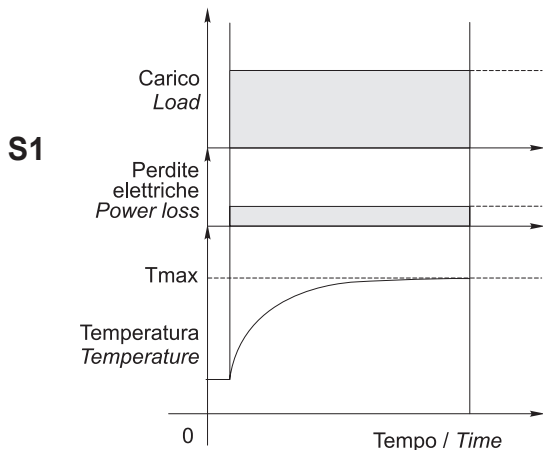
Il servizio di un motore indica il tipo di utilizzo e la gravosità del ciclo di lavoro.

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 T_{max} 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 T_{max} stated by motor thermal class.

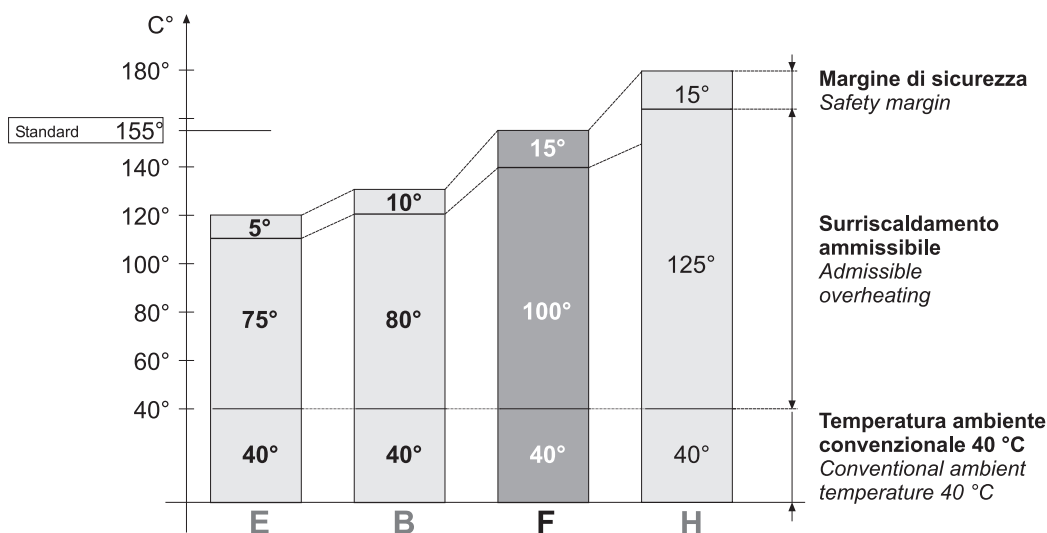
Classe di isolamento termico

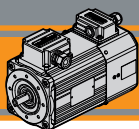
Insulation class

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 $\approx + 20\%$ Coppia / torque $\approx -20\%$ Potenza / power \approx invariata / the same |
| 480 V | Non permesso / not allowed | Velocità / speed $\approx + 20\%$ Coppia / torque \approx invariata / the same Potenza / power $\approx + 20\%$ |

Tabella pressacavi

Table of cable glands data

Serie **SMT.SV** / **SMT.SV** Series

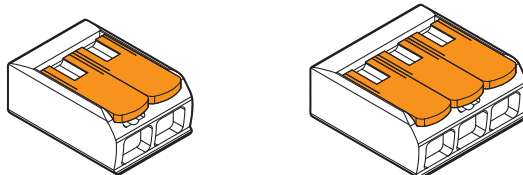
| TAGLIA SIZE | Pressacavo Cable gland |
|-------------------|---------------------------|
| 63 / 71 / 80 / 90 | 1x M20x1.5 1x M16x1.5 |

Connessioni e collegamenti - Motore

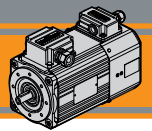
Connection diagram - Motor

Riferimenti

References



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

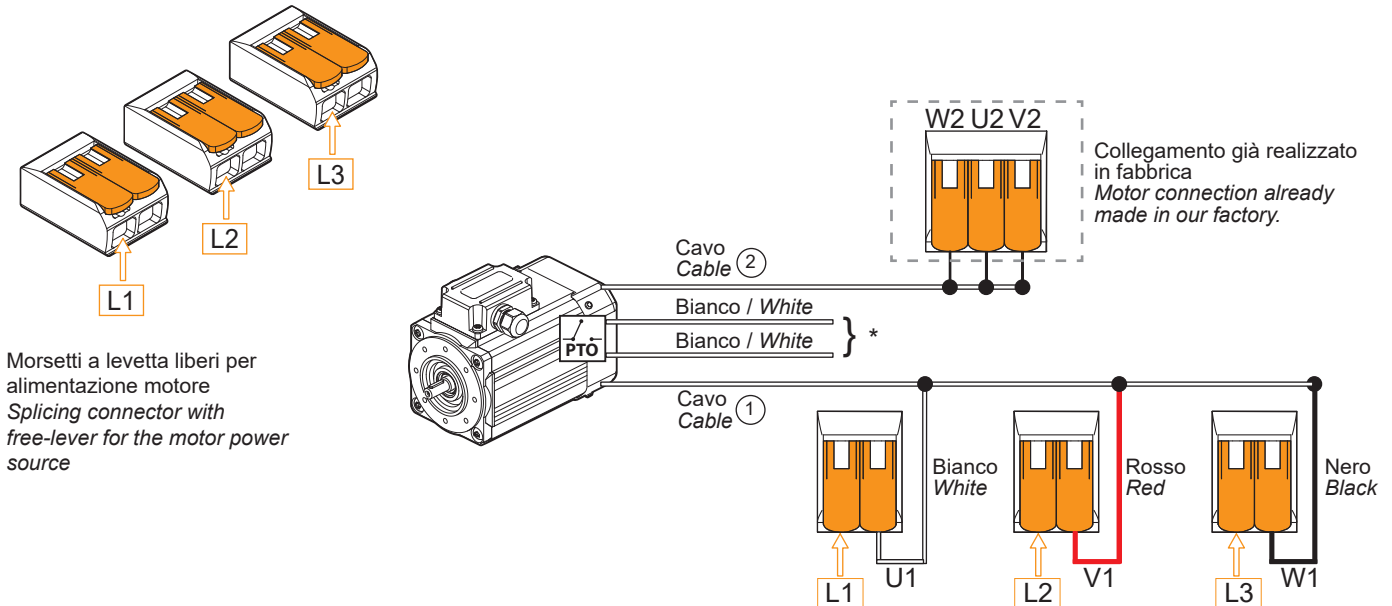


Connessioni e collegamenti - Motore

Connection diagram - Motor

400/460 V - Trifase / three phase

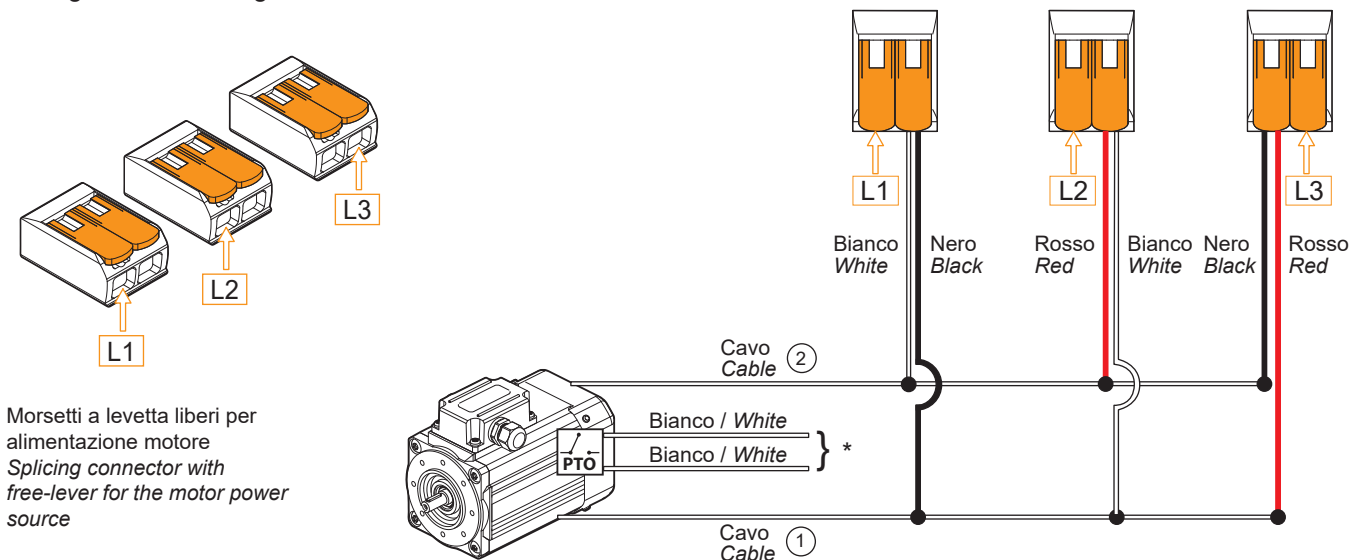
Collegamento a stella / Star connection



*: 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.

230 V - Trifase / three phase

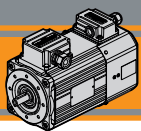
Collegamento a triangolo / Delta connection



*: 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.

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.

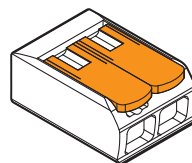
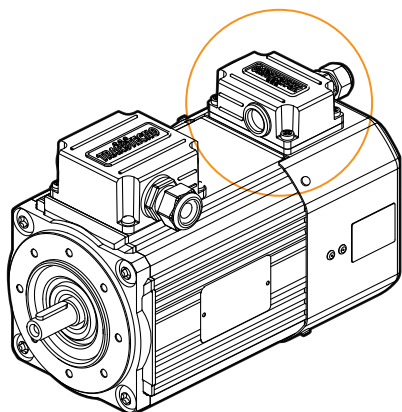


Connessioni e collegamenti - Servoventola

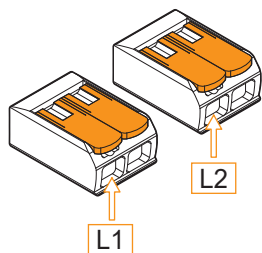
Connection diagram - Servo fan

Riferimenti

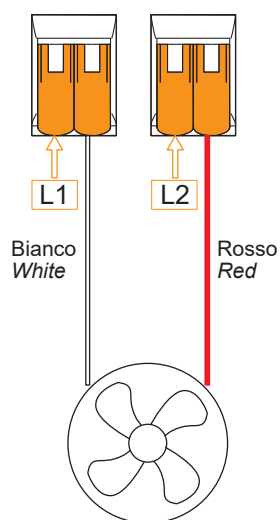
References

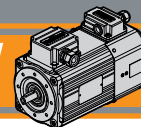


Morsetto di collegamento a leva a 2 poli
Splicing connector with lever 2 pin.



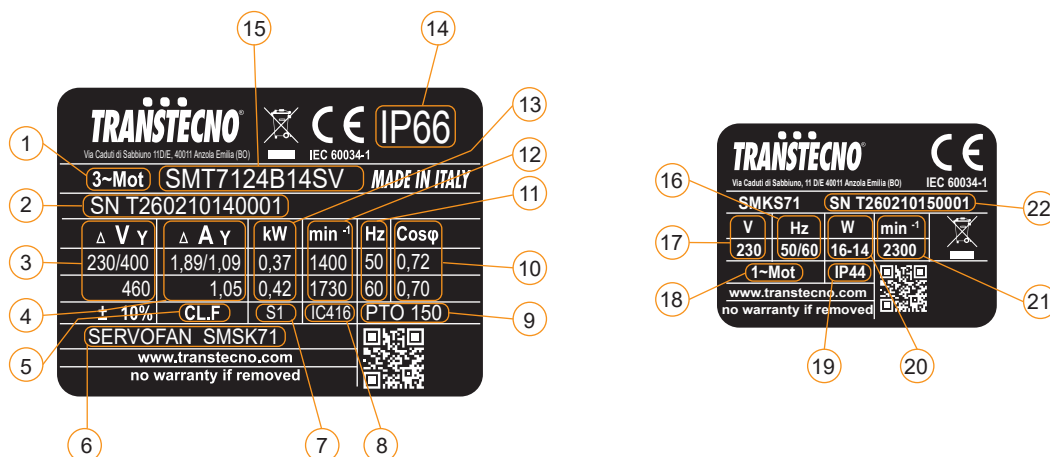
Morsetti a levetta liberi per alimentazione servoventola
Splicing connector with free-lever for the electric fan





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 | Tipo servoventola | Servo fan type |
| 7 | Servizio | Duty |
| 8 | Ventilazione | Fan cooling |
| 9 | Protezione termica PTO 150°C | PTO 150°C Thermal protection |
| 10 | Fattore di potenza | Power factor |
| 11 | Frequenza nominale | Rated frequency |
| 12 | Velocità nominale | Rated speed |
| 13 | Potenza nominale | Rated power |
| 14 | Grado di protezione IP motore | Motor IP protection rating |
| 15 | Tipo motore | Motor type |
| 16 | Frequenza kit servoventola | Servo fan kit frequency |
| 17 | Tensione kit servoventola | Servo fan kit voltage |
| 18 | Tipo di alimentazione kit servoventola | Servo fan kit power supply |
| 19 | Grado di protezione kit servoventola | Servo fan kit IP protection rating |
| 20 | Potenza kit servoventola | Servo fan kit power |
| 21 | Velocità kit servoventola | Servo fan kit speed |
| 22 | Numero di serie kit servoventola | Servo fan kit serial number |

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