MINI TECNO™
small but strong

Ott Antriebstechnik
Standardisierte Individualität

AC

AC - Getriebemotoren
AC - Bremsmotoren
AC - UL-Motoren

MINI TECNO™ brand of TRANSTECNO®

AC

Indice — Index

MINI TECNO™

small but strong

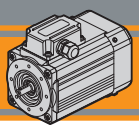
SM

IP66 TRANSTECNO

AC

Motori elettrici asincroni CA
AC asynchronous electric motors

MINI TECNO™ brand of TRANSTECNO®



IP66 TRANSTECNO

AC

Caratteristiche tecniche

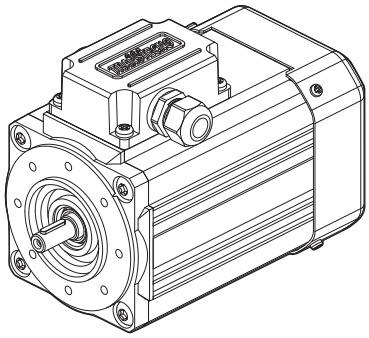
Technical characteristics

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

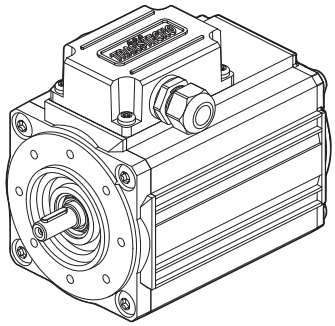
- Costruzione compatta
- Motorizzazioni in corrente alternata monofase e trifase
- Carcassa estrusa in alluminio anodizzato nero
- Motore elettrico AC con grado di protezione IP66 eccetto il condensatore.
- Rumorosità e vibrazioni contenute
- Isolamento termico di classe F
- Flangia motore IEC B14
- 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.

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, 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

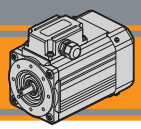
IP66 TRANSTECNO

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** → AB1
SMT									**SV** → AC1
3 ~									**UL-CSA** → AD1



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	TENV	UL-CSA → AD1

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	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			
5044	0.12	0.87	1315	0.64	43.0	0.63	1.80	2.00	1.80		S3 75%	
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		S3 75%	
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			

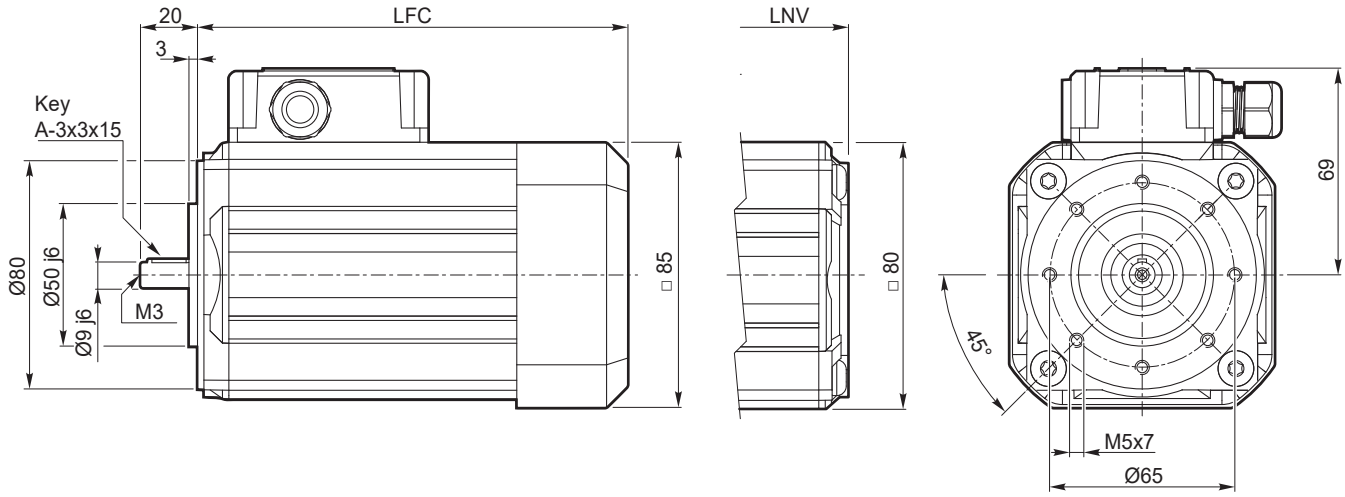
SMM Motori monofase / *SMM Single phase motors*

(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]	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			
5624	0.09	0.63	1370	0.82	48.6	0.98	0.72	1.70	1.45	6.3	PTO 150°		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			

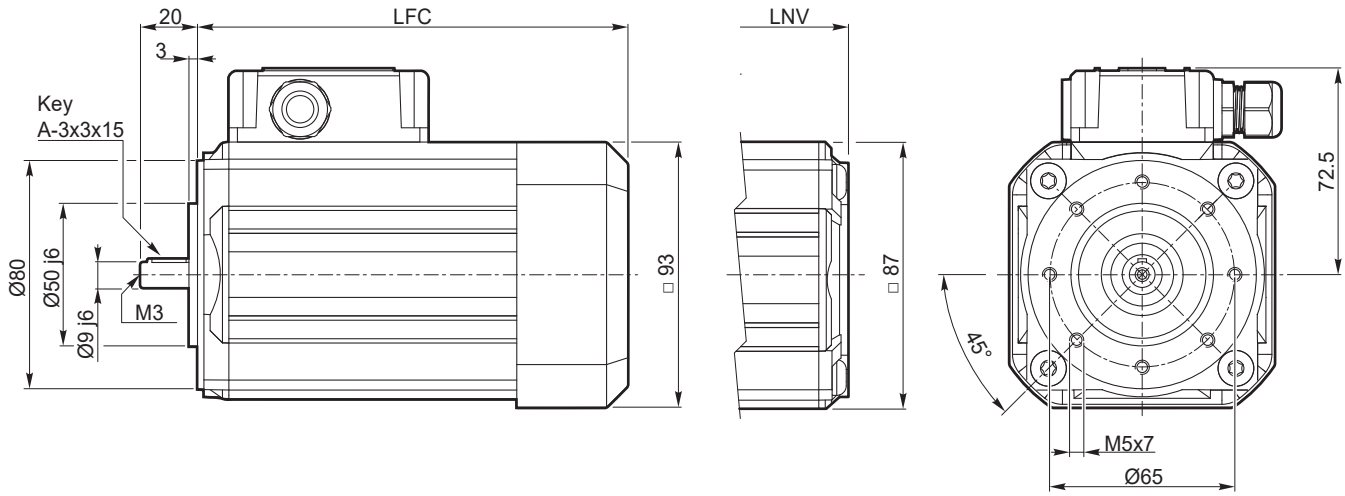
Dimensioni motori trifase *Three phase motors dimensions*

3 ~ SMT50.. - B14 - TEFC / TENV

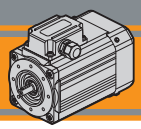


SMT	... TEFC		... TENV	
	LFC	Kg	LNV	Kg
5014	135.5	2.3	108.5	2.2
5024	150.5	2.7	123.5	2.6
5034	175.5	3.5	148.5	3.4
5044	200.5	4.2	173.5	4.1

3 ~ SMT56.. - B14 - TEFC / TENV

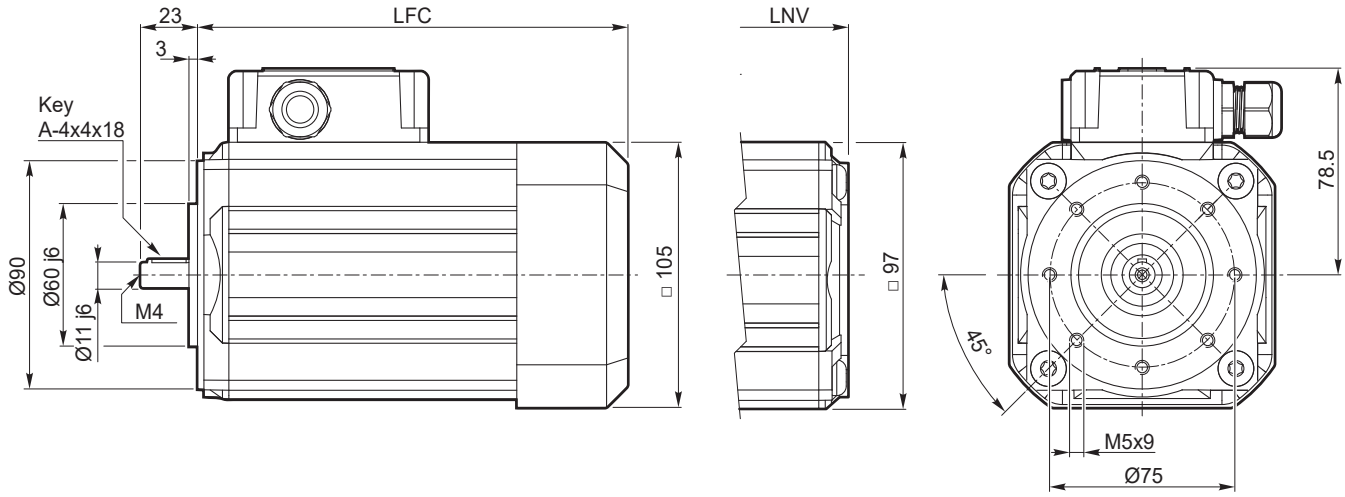


SMT	... TEFC		... TENV	
	LFC	Kg	LNV	Kg
5624	141	2.9	117	2.8
5634	151	3.2	127	3.1
5644	186	4.4	162	4.3
5654	206	5.1	182	5.0

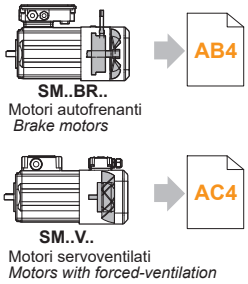


3 ~

SMT63.. - B14 - TEFC / TENV

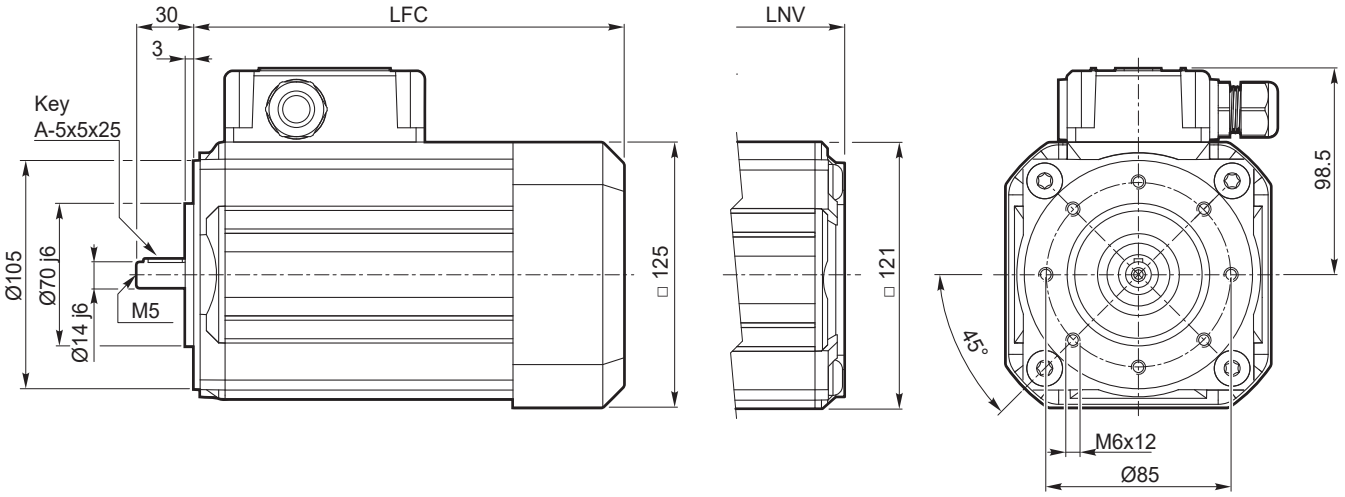


SMT	... TEFC		... TENV	
	LFC	Kg	LNV	Kg
6324	165.5	4.3	138.5	4.2
6334	180.5	5.0	153.5	4.9
6344	205.5	6.2	178.5	6.1

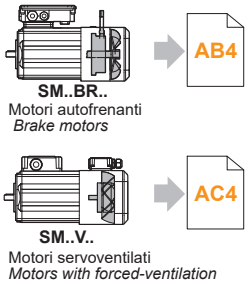


3 ~

SMT71.. - B14 - TEFC / TENV



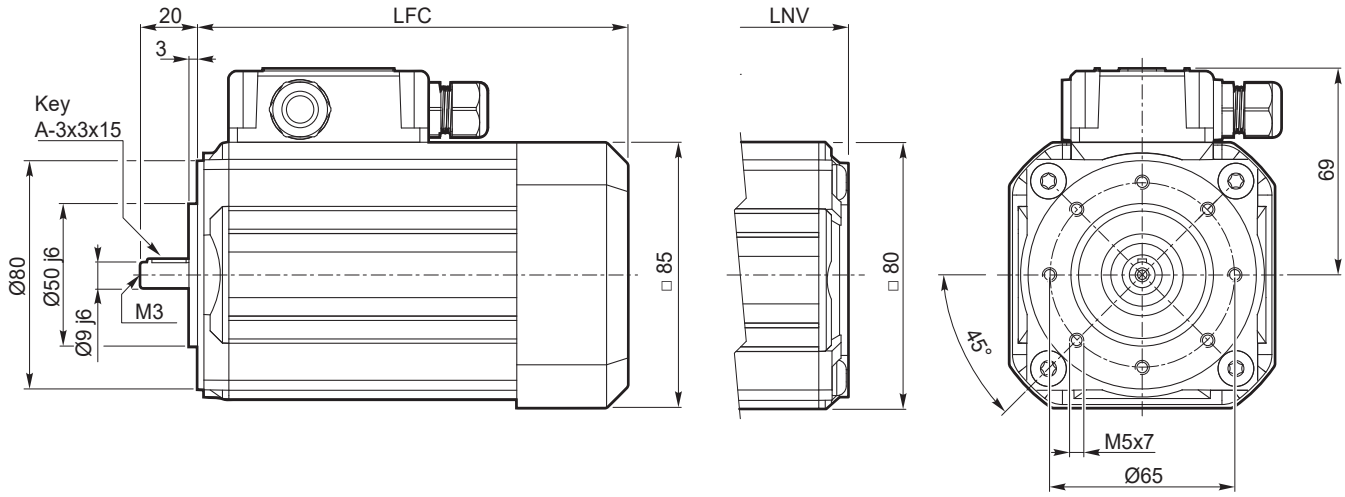
SMT	... TEFC		... TENV	
	LFC	Kg	LNV	Kg
7124	174	6.6	145.5	6.4
7134	189	7.7	160.5	7.5
7144	214	9.4	185.5	9.2



Dimensioni motori monofase *Single phase motors dimensions*

1 ~

SMM50.. - B14 - TEFC / TENV



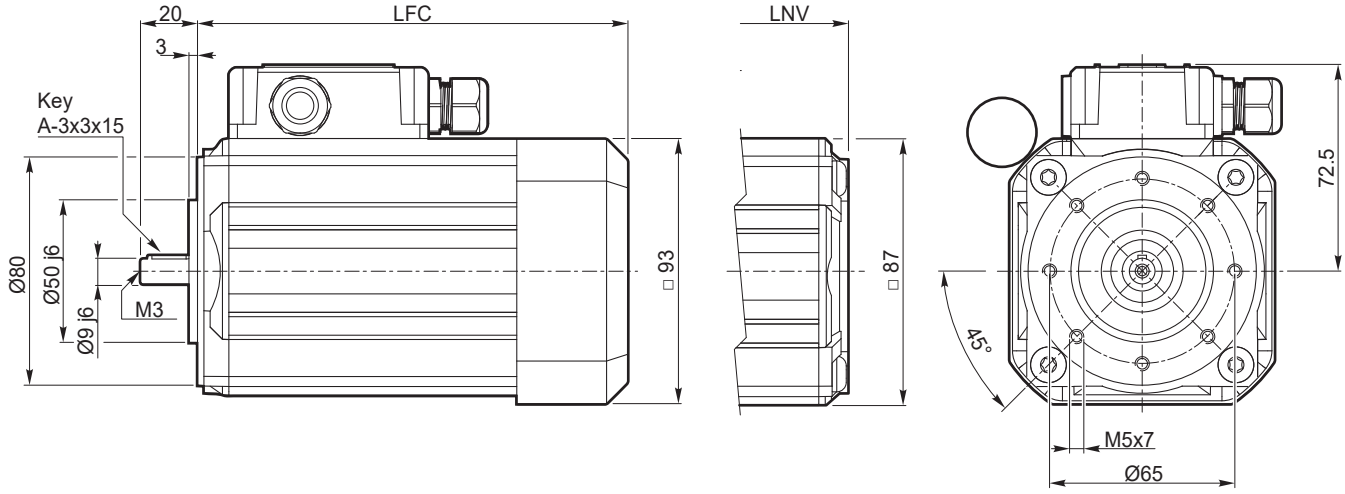
SMM	... TEFC		... TENV	
	LFC	Kg	LNV	Kg
5014	150.5	2.7	123.5	2.6
5024	175.5	3.5	148.5	3.4
5034	200.5	4.2	173.5	4.1

Nota:
il condensatore sarà fornito a corredo

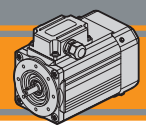
Note:
the capacitor will be supplied separately

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

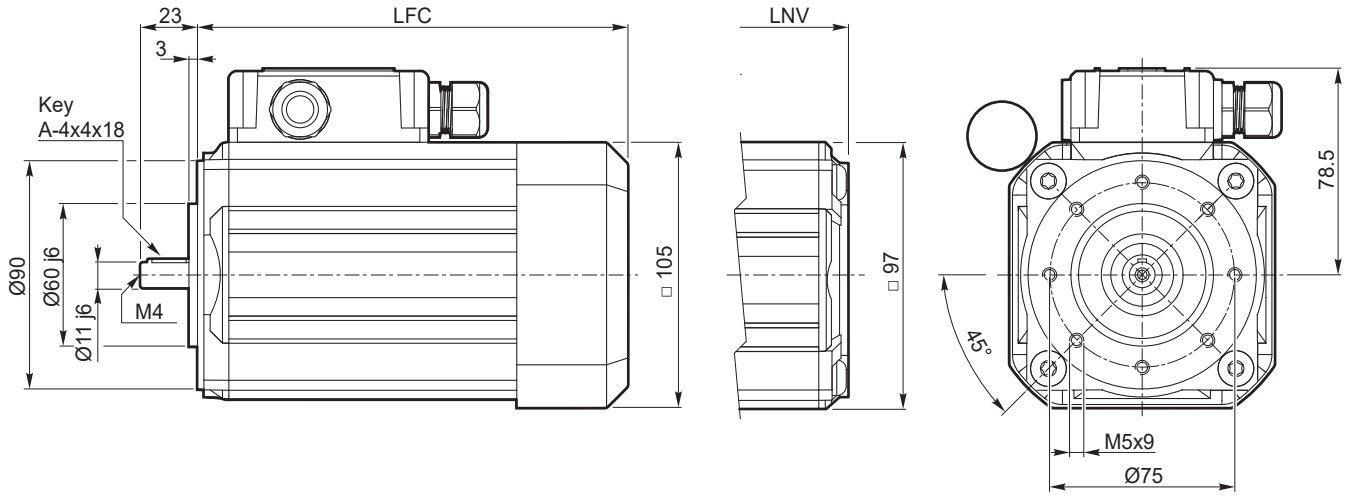


Dimensioni motori monofase

Single phase motors dimensions

1 ~

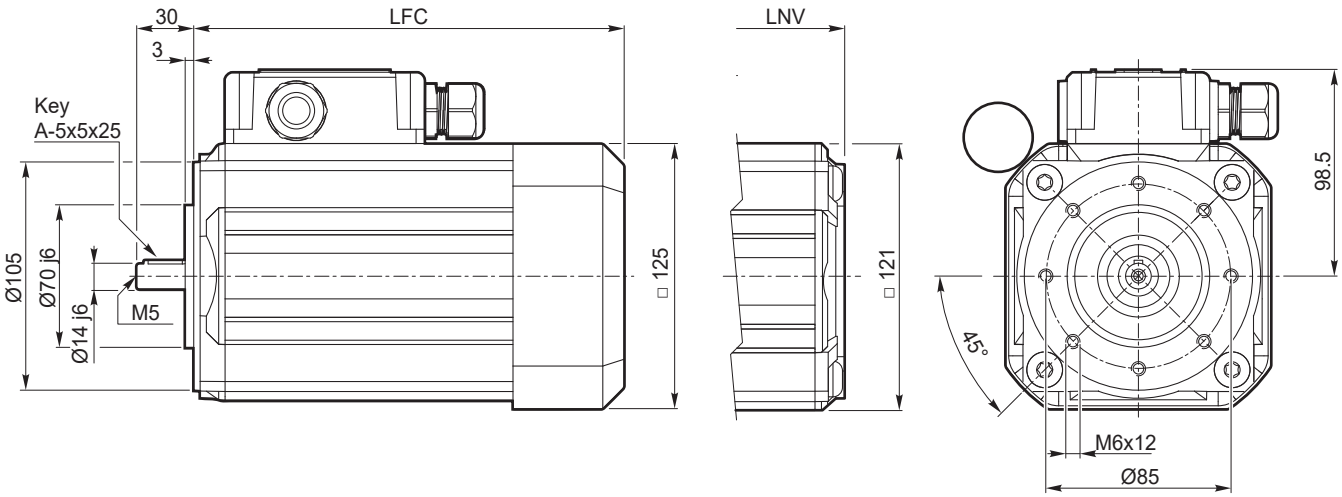
SMM63.. - B14 - TEFC / TENV



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

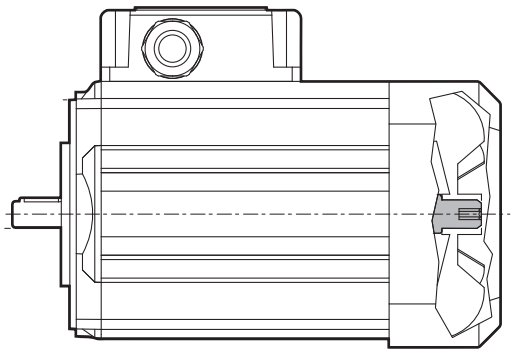
1 ~

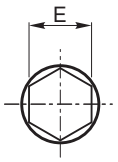
SMM71.. - B14 - TEFC / TENV



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	4
56	
63	
71	6

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.

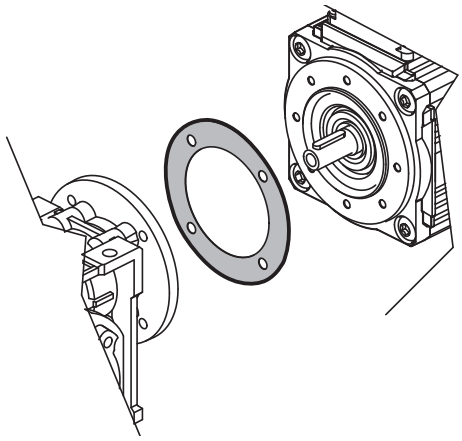
E' severamente vietata la messa in servizio del motore elettrico senza copriventola opportunamente montata.

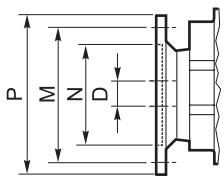
Note:

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

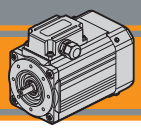
The switchgear for the motor must be padlockable in order to prevent the power supply from being accidentally reset. It is strictly prohibited to put the electric motor into service if the fan cover is not fitted.

Opzione guarnizione CA — *Rubber gasket option*





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



Grado di protezione IP — *IP protection rating*

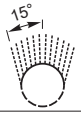
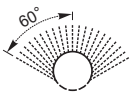
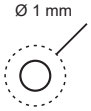
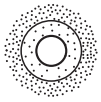
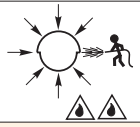
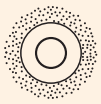
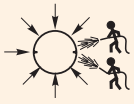
Indica il grado di isolamento meccanico del corpo motore.
1ª cifra protezione alla penetrazione di corpi solidi.

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*

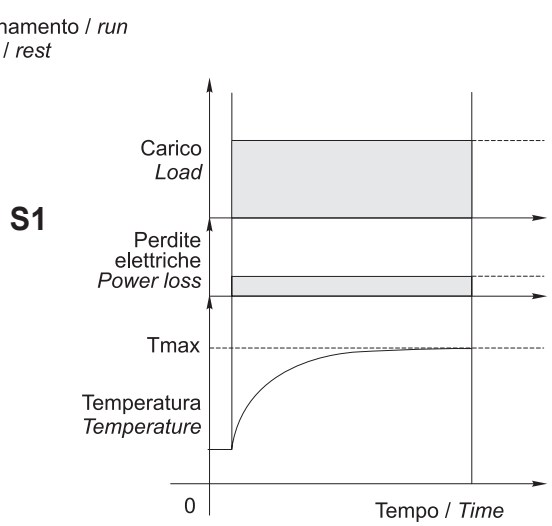
Il servizio di un motore indica il tipo di utilizzo e la gravosità del ciclo di lavoro.

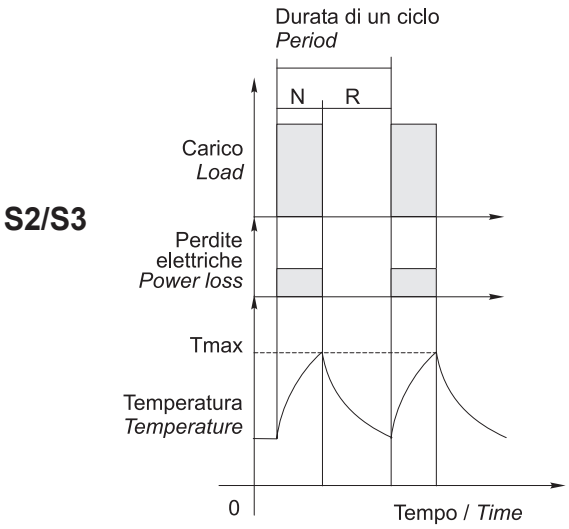
The duty cycle of a motor indicates its use and running cycle.

Grafico servizi più comuni

Most common duty cycles diagram

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





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.

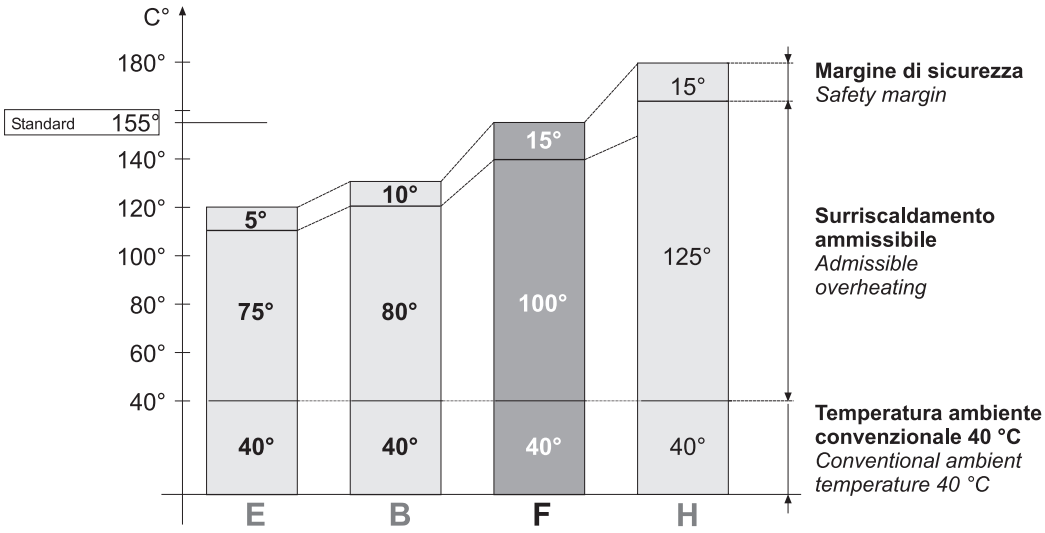
NOTE: The same motor can run under all duty services, limitation is due to internal temperature that must not override Tmax stated by motor thermal class.

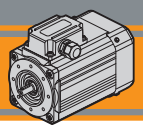
Classe di isolamento termico — *Insulation class*

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 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* AA3	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	M20x1.5

Serie SMM / *SMM Series*

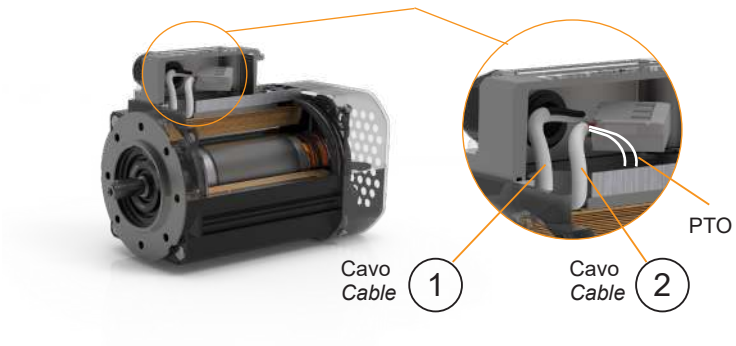
TAGLIA *SIZE*	Pressacavo *Cable gland*
50 / 56 / 63	n°2 - M16x1.5
71	M20x1.5 + M16x1.5

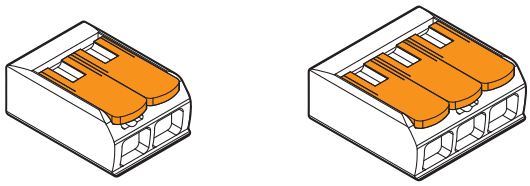
Connessioni e collegamenti

Connection diagram

Riferimenti

References



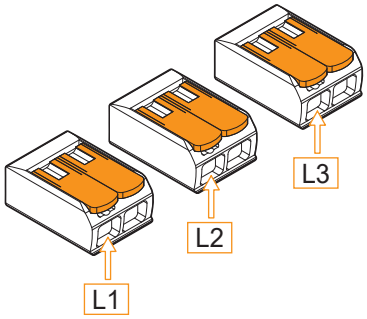


Morsetto di collegamento a leva a 2 e 3 poli
Splicing connector with lever 2 - and 3 - pin.

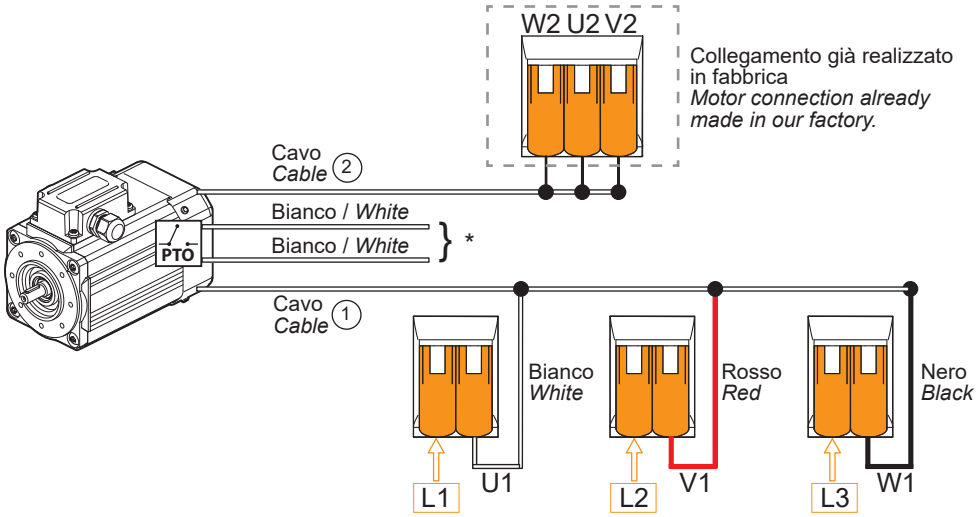
Connessioni e collegamenti — *Connection diagram*

400/460 V - Trifase / *Shree phase*

Collegamento a stella / *Star connection*



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

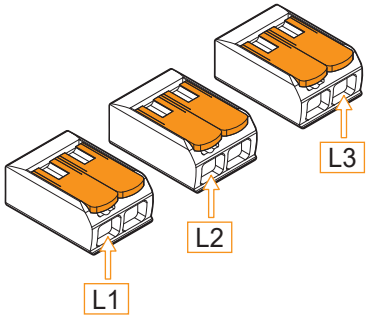


*: collegamento al circuito di comando del motore a cura del cliente. Per ragioni di sicurezza è sconsigliato il collegamento in serie. Se necessario contattare il Servizio Tecnico Transtecno. PTO disponibile per taglie 56, 63, 71

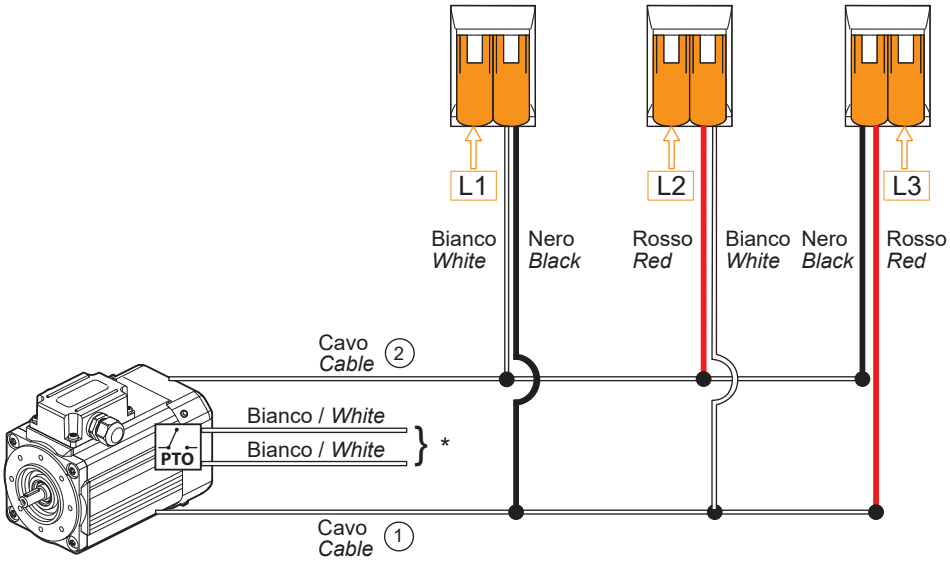
*: *motor supply connection by the customer. For safety reason Transtecno advises against PTO connected in series. If needed, contact Transtecno Technical Service. PTO is available for sizes 56, 63, 71.*

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

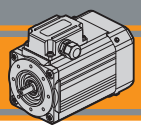


*: collegamento al circuito di comando del motore a cura del cliente. Per ragioni di sicurezza è sconsigliato il collegamento in serie. Se necessario contattare il Servizio Tecnico Transtecno. PTO disponibile per taglie 56, 63, 71

*: *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.*

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 Servizio Tecnico Transtecno.

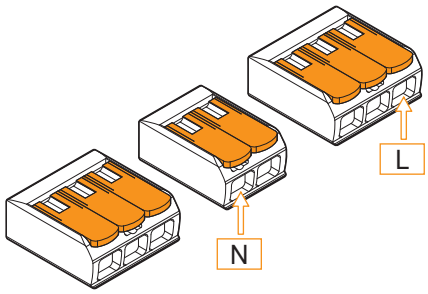
The SM series is supplied in star connection, the delta connection diagram shown above provides a clear indication of the modification that the customer can make independently. If needed, contact Transtecno Technical Service.



Connessioni e collegamenti — *Connection diagram*

230 V - Monofase / *Single phase*

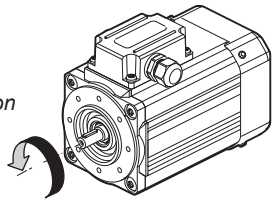
Monofase SMM 50... / *Single phase SMM 50...*

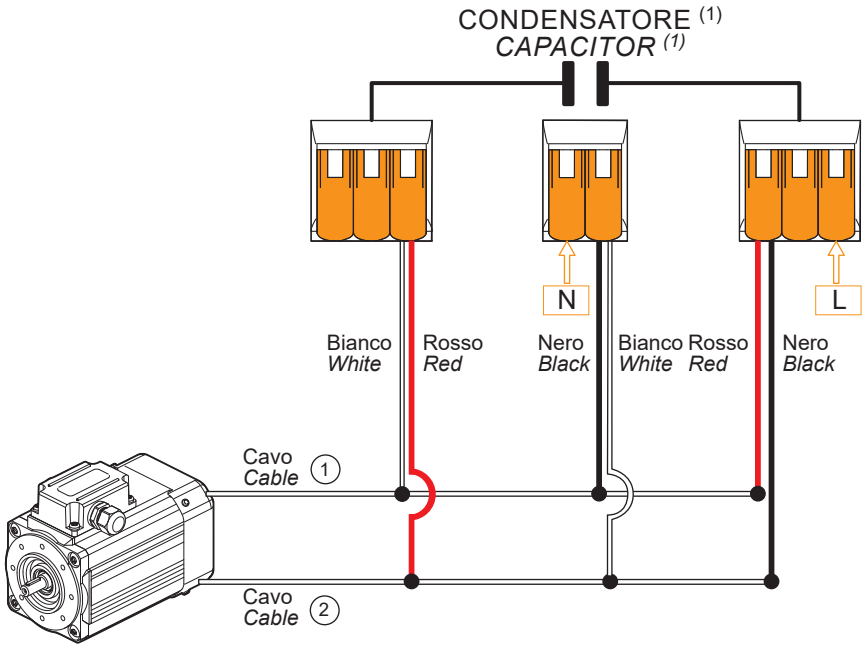


Morsetti a levetta liberi per alimentazione motore
Splicing connector with free-lever for the motor power source

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

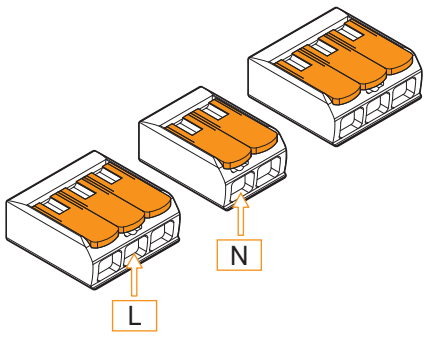
Senso di rotazione antiorario
Counter-clockwise direction of rotation





230 V - Monofase / *Single phase*

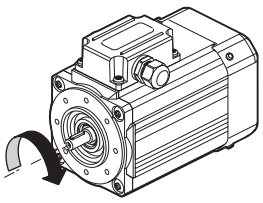
Monofase SMM 50... / *Single phase SMM 50...*

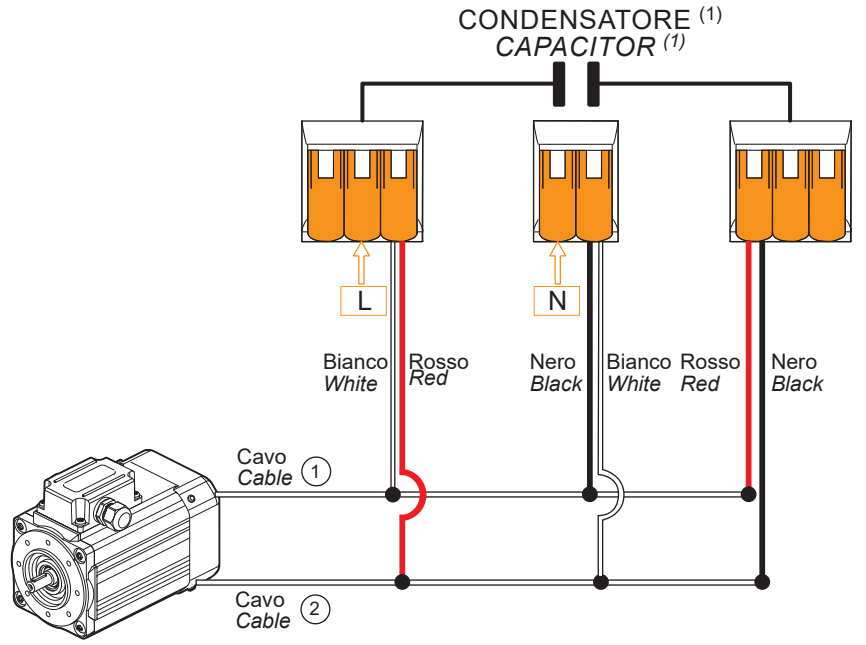


Morsetti a levetta liberi per alimentazione motore
Splicing connector with free-lever for the motor power source

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

Senso di rotazione orario
Clockwise direction of rotation



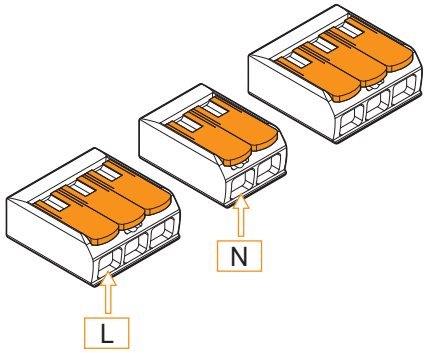


AC

Connessioni e collegamenti — *Connection diagram*

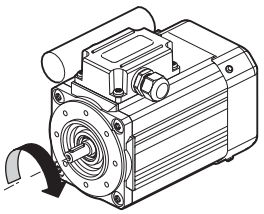
230 V - Monofase / *Single phase*

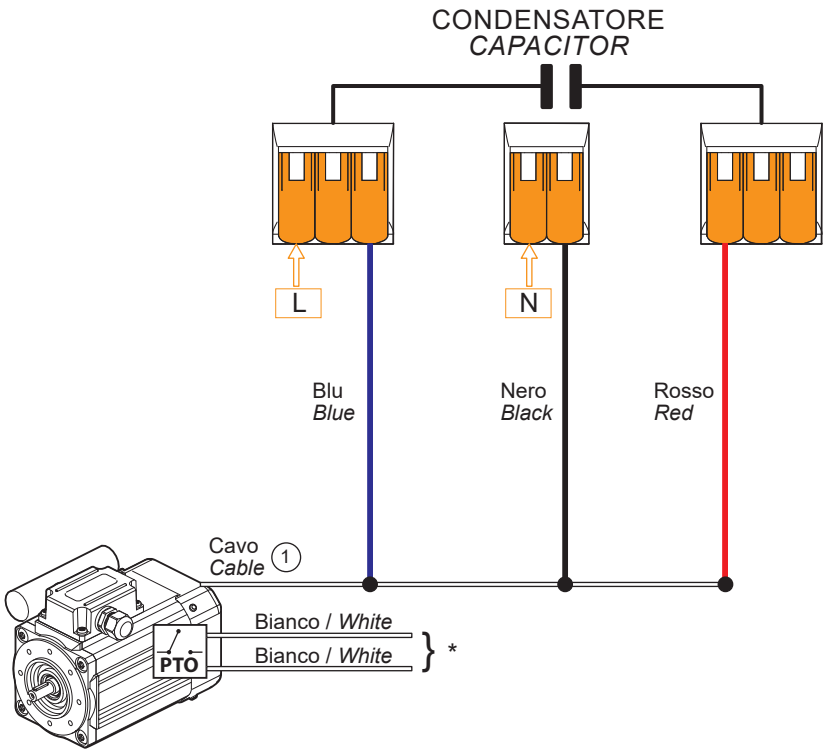
Monofase da SMM 56... a SMM 71... / *Single phase from SMM 56... to SMM 71...*



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

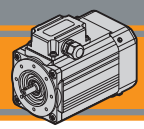
Senso di rotazione orario
Clockwise direction of rotation





*: 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

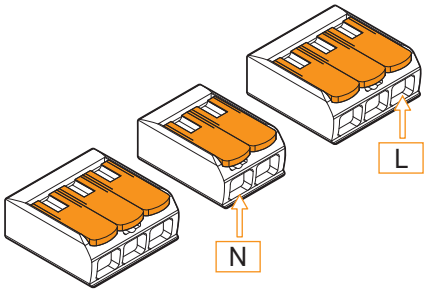
*: *motor supply connection by the customer. For safety reason Transtecno advises against PTO connected in series. If needed, contact Transtecno Technical Service. PTO is available for sizes 56, 63, 71.*



Connessioni e collegamenti — *Connection diagram*

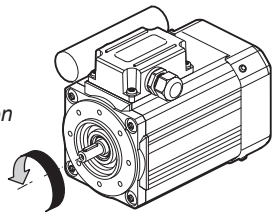
230 V - Monofase / *Single phase*

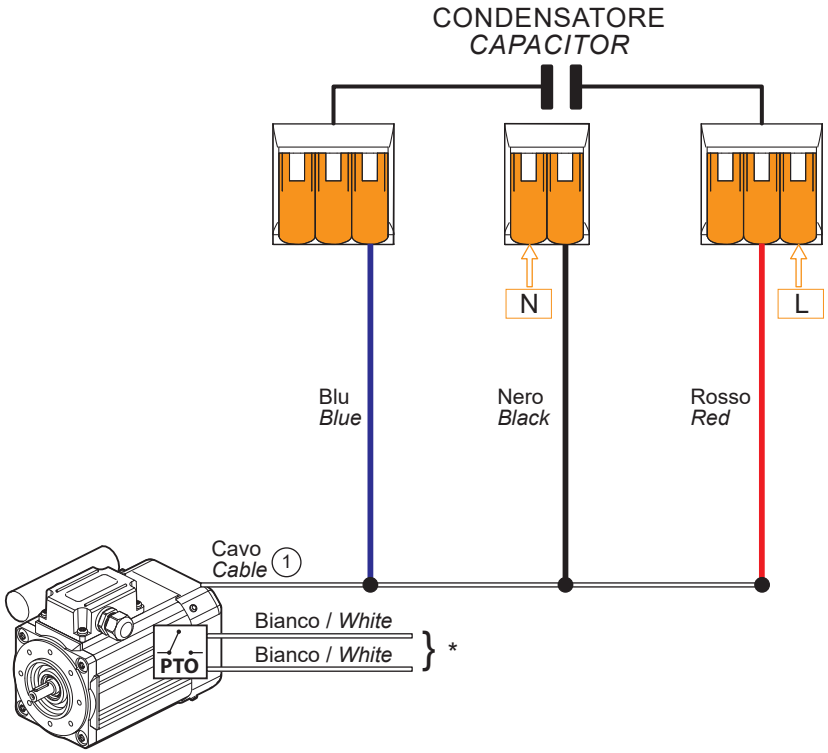
Monofase da SMM 56... a SMM 71... / *Single phase from SMM 56... to SMM 71...*



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*



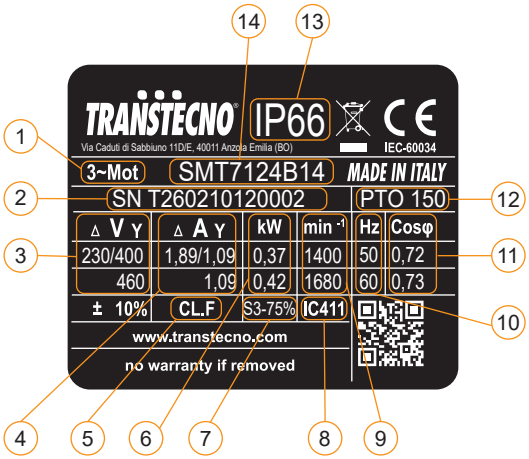


*: collegamento al circuito di comando del motore a cura del cliente. Per ragioni di sicurezza è sconsigliato il collegamento in serie. Se necessario contattare il Servizio Tecnico Transtecno. PTO disponibile per taglie 56, 63, 71

**: 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.*

AC

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*

MINI TECNO™

small but strong

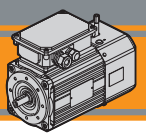
SM..BR

IP66 TRANSTECNO

AC

Motori elettrici CA autofrenanti
AC electric motors with brake

MINI TECNO™ brand of TRANSTECNO®



IP66 TRANSTECNO

BRAKE

Caratteristiche tecniche

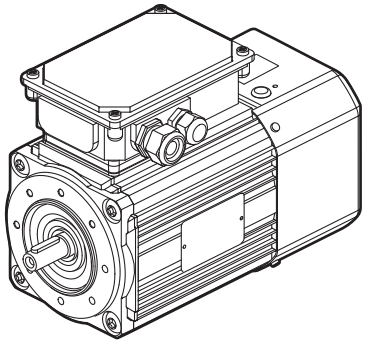
Technical characteristics

I motori autofrenanti delle serie SMT..BR hanno le seguenti caratteristiche principali:

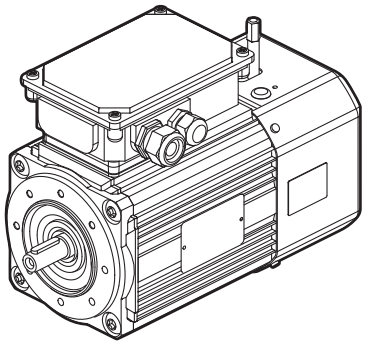
- Costruzione compatta
- Motorizzazioni in corrente alternata trifase
- Carcassa estrusa in alluminio anodizzato nero
- Motore elettrico AC con grado di protezione IP66 (freno IP66 e IP65)
- Rumorosità e vibrazioni contenute
- Isolamento termico di classe F
- Flangia motore IEC B14
- Temperatura ambiente: 0°C / + 40°C (Per utilizzo a temperature diverse contattare il ns. servizio tecnico)
- Disponibili nella versione ventilata TEFC (servizio S1)
- Protezioni termiche PTO 150°C
- Adatti al funzionamento con alimentazione da inverter (Richiedere opzione freno con alimentazione separata)
- Cava esagonale su albero motore lato NDE.
- La tolleranza di tensione è ±10% per tutti i motori
- Il freno è a corrente continua

SMT..BR braked motor range has the following main features:

- *Compact design*
- *AC three phase motors available*
- *Black anodized extruded aluminium housing*
- *AC electric motor in IP66 protection Standard (IP66 and IP65 brake)*
- *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)*
- *Fan cooled TEFC (duty S1) available*
- *PTO 150°C thermal protection*
- *Suitable for running with frequency converter (Request brake option with separate power supply)*
- *Motor shaft hexagon socket on the NDE side*
- *The voltage tolerance is ±10% for all motors*
- *The brake is DC*



SMT..TEFC BR



SMT..TEFC BRL

IP66 TRANSTECNO

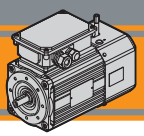
BRAKE

Designazione

Classification

MOTORE TRIFASE AUTOFRENANTE / *THREE PHASE BRAKED 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*	Freno - Leva di sblocco *Brake - Hand-release lever*
SMT	Vedi tabelle *See tables*	**1-2-3-4-5**	**4**	**0.18 kW** ... **0.55 kW**	**B14**	**230-400 V** **460V** a richiesta *on request*	**50Hz** **60Hz**	**TEFC**	**BR** **BRL**



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*
M_b	[Nm]	Coppia frenante	*Braking 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..BR Motori trifase autofrenanti / *SMT..BR Three phase motors with brake* (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	PTO [°C]	Servizio *Duty* TEFC	IP Motore *Motor*	M_b [Nm]	IP Freno *Brake*
SMT6324B14BR(L)	0.18	1.26	1360	0.69	57.0	0.66	2.50	2.90	2.50	PTO 150°	S3 75%	**66**	4	66
SMT6334B14BR(L)	0.25	1.74	1375	0.94	62.0	0.64	2.80	3.00	2.80				4	66
SMT7124B14BR(L)	0.37	2.52	1400	1.10	67.9	0.72	2.75	4.20	2.75				7,5	65
SMT7134B14BR(L)	0.55	3.76	1395	1.55	70.2	0.73	2.90	4.40	2.90				7,5	65

I freni adottati sono freni elettromagnetici ad azione negativa: l'azione frenante viene quindi esercitata in assenza di alimentazione.

Il freno è a corrente continua e, in configurazione standard, viene alimentato direttamente da una fase del motore, passando attraverso un raddrizzatore alloggiato all'interno della morsettiera. Per le applicazioni in cui si rende necessario, come ad esempio l'azionamento tramite inverter, è possibile richiedere l'alimentazione del freno separata 230Vac ±10% 50Hz. Sono disponibili anche le versioni 400Vac ±10% 50Hz o 24Vdc.

La leva di sblocco è una opzione che va specificata in fase di ordine.

The brakes adopted are negative action electromagnetic brakes: the braking action is performed in the absence of power.

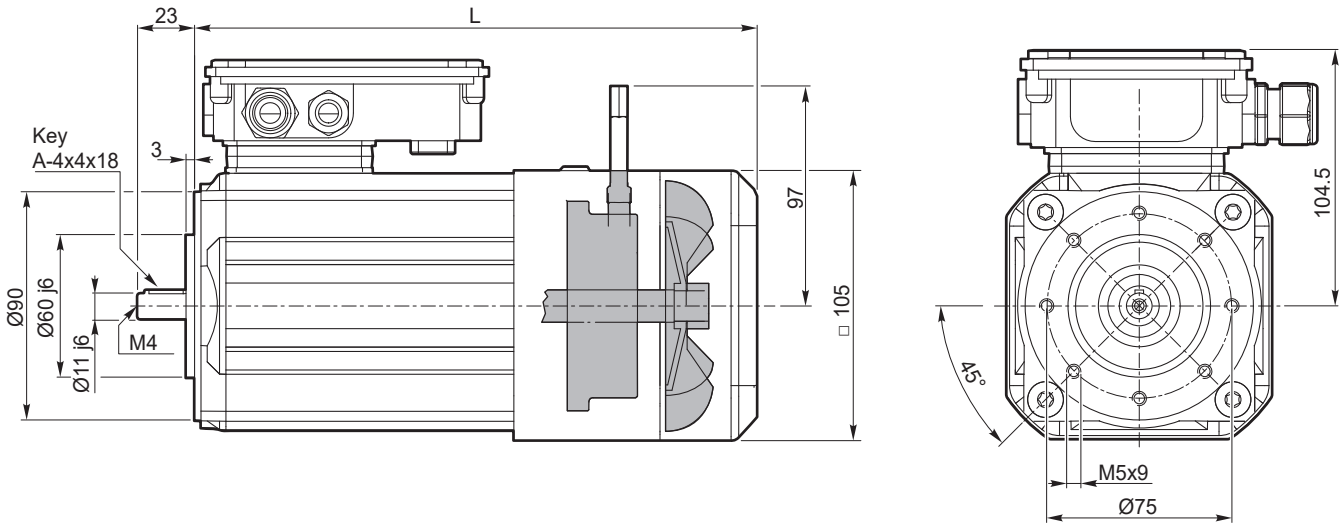
The brake is DC and, in standard configuration, is powered directly by a phase of the motor, passing through a rectifier housed inside the terminal block. For the applications in which it is required, like the ones with motor driven by inverter, it is possible to request 230Vac ± 10% 50Hz separate brake power supply. 400Vac ± 10% 50Hz or 24Vdc power supply are available on request.

The release lever is an option that must be requested when ordering.

Dimensioni motori trifase | ***Three phase motors dimensions***

3 ~

SMT63.. - B14 - TEFC - BR (L)



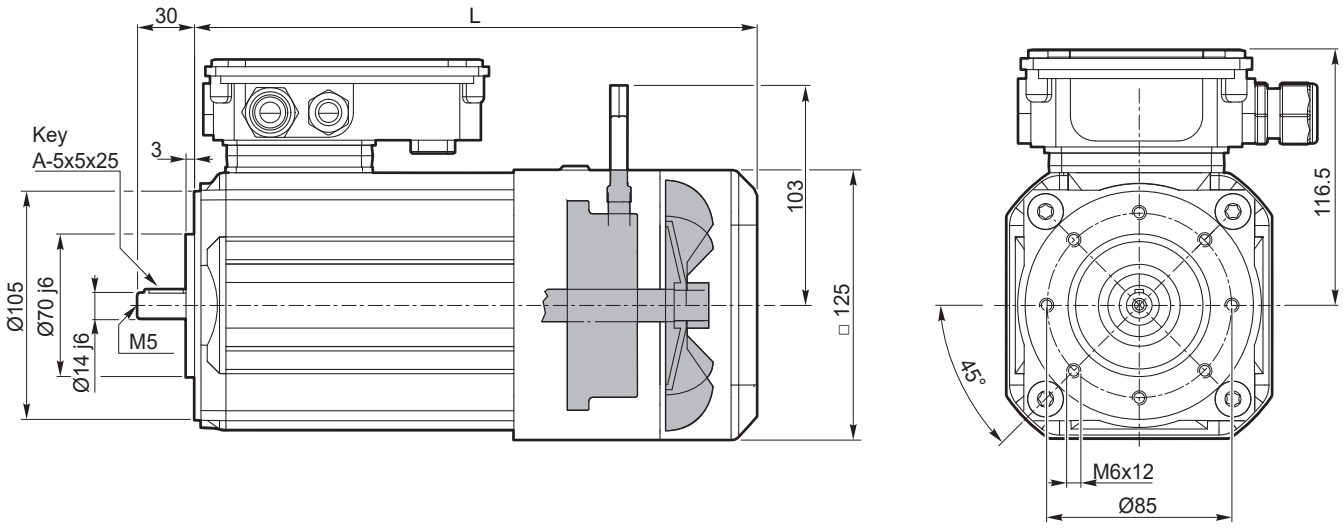
Nota:
La leva di sblocco è una opzione che va specificata in fase di ordine.

Note:
The release lever is an option that must be requested when ordering.

SMT..BR	... TEFC	
	L	Kg
6324	211	5.8
6334	226	6.5

3 ~

SMT71.. - B14 - TEFC - BR (L)

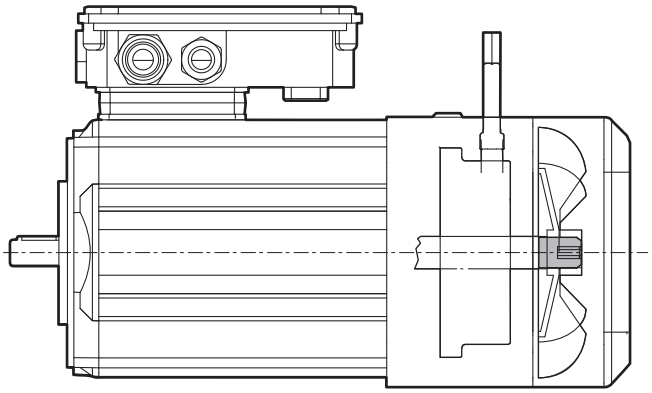


Nota:
La leva di sblocco è una opzione che va specificata in fase di ordine.

Note:
The release lever is an option that must be requested when ordering.

SMT..BR	... TEFC	
	L	Kg
7124	221	7.8
7134	236	8.9

Cava esagonale — *Hexagonal socket*



Esagono / *Hexagon*

SM..	E
63	4
71	6

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.

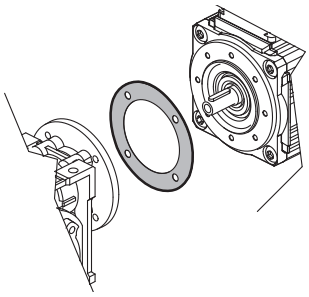
E' severamente vietata la messa in servizio del motore elettrico senza copriventola opportunamente montata.

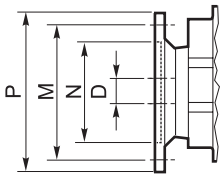
Note:

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*		
	63 B14	**71 B14**
N	60	70
M	75	85
P	90	105
D	**11**	**14**

Grado di protezione IP

IP protection rating

Indica il grado di isolamento meccanico del corpo motore.

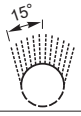
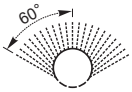
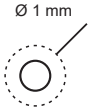
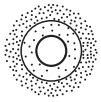
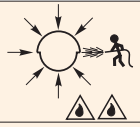
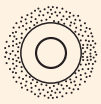
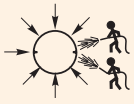
1ª cifra protezione alla penetrazione di corpi solidi.

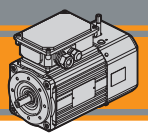
2ª cifra protezione contro la penetrazione d'acqua.

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.*



Tipi di servizi IEC — *IEC duty cycles*

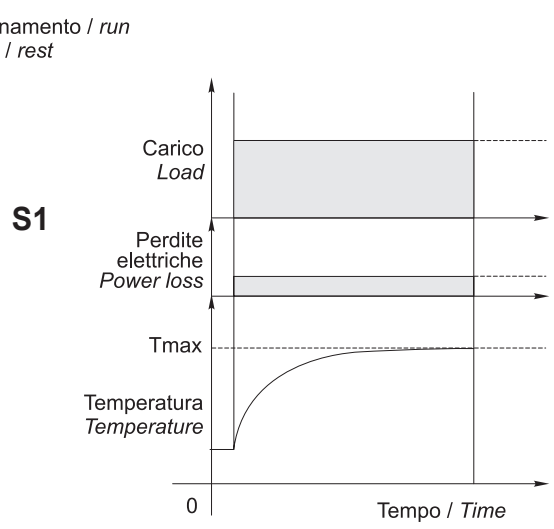
Il servizio di un motore indica il tipo di utilizzo e la gravosità del ciclo di lavoro.

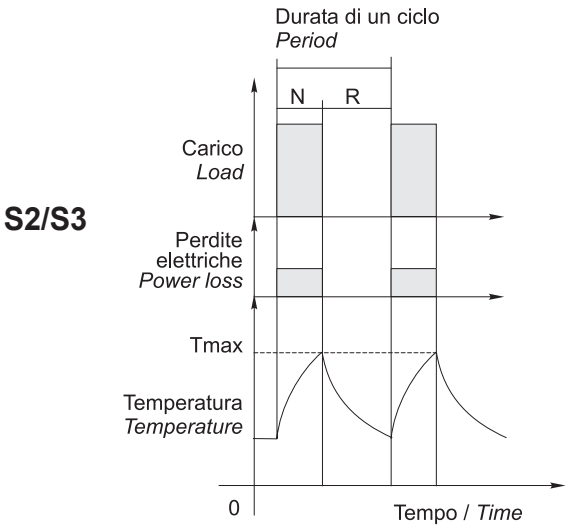
The duty cycle of a motor indicates its use and running cycle.

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 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

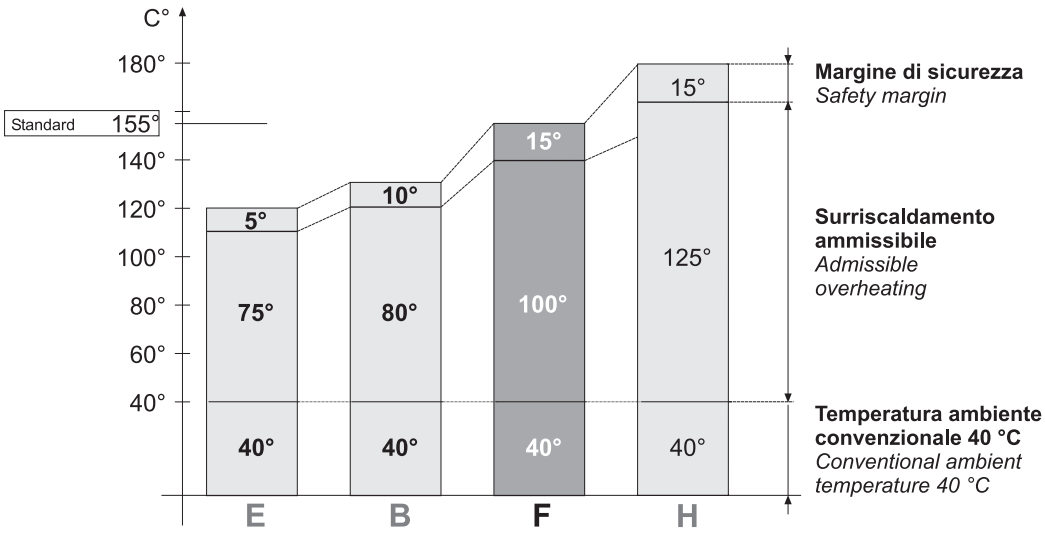


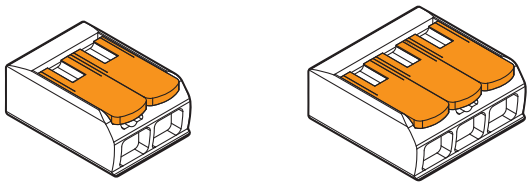
Tabella pressacavi — *Table of cable glands data*

Serie SM..BR / *SM..BR Series*

TAGLIA ***SIZE***	**Pressacavo** ***Cable gland***
63 / 71	1x M20x1.5

Connessioni e collegamenti — *Connection diagram*

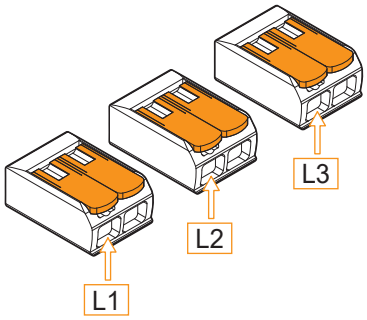
Riferimenti — *References*



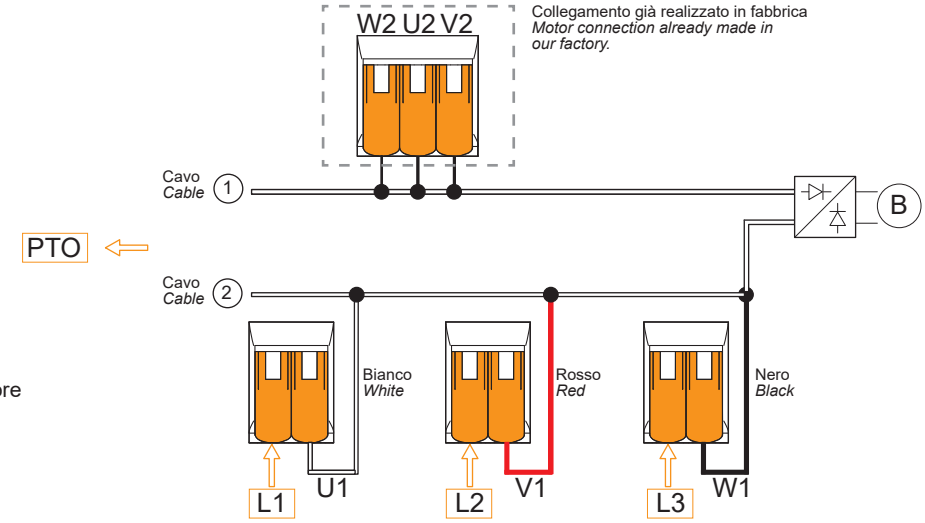
Morsetto di collegamento a leva a 2 e 3 poli
Splicing connector with lever2 - and 3 - pin.

400/460 V - Trifase / *three phase*

Collegamento a stella / *Star connection*

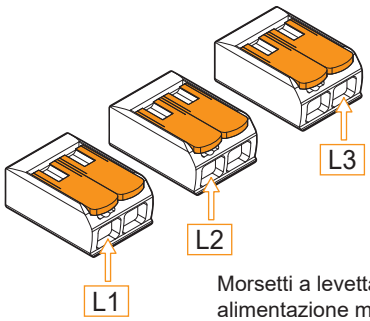


Morsetti a levetta liberi per alimentazione motore
Splicing connector with free-lever for the motor power source



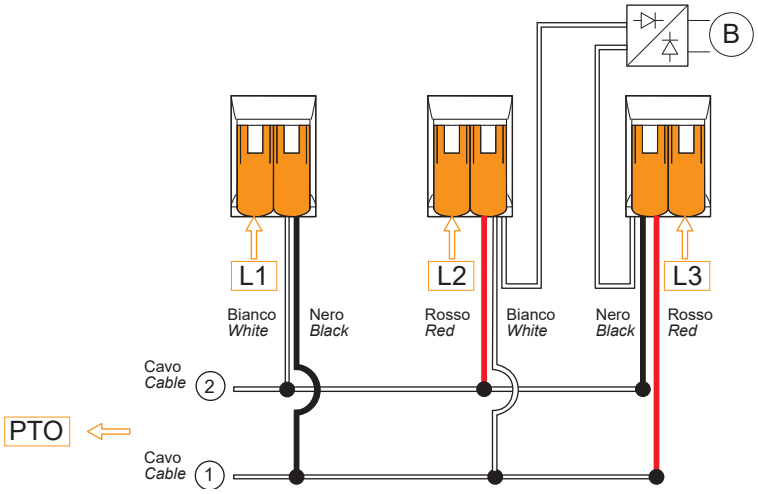
230 V - Trifase / *three phase*

Collegamento a triangolo / *Delta connection*



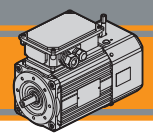
Morsetti a levetta liberi per alimentazione motore

Splicing connector with free-lever for the motor power source

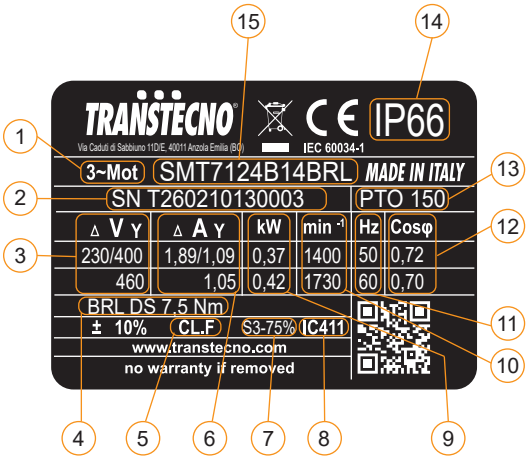


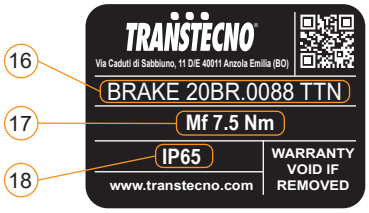
I motori della serie SM sono forniti in collegamento a stella, lo schema di collegamento a triangolo sopra riportato fornisce una chiara indicazione delle modifiche che il cliente può apportare in autonomia. Se necessario contattare il Servizio Tecnico Transtecno.

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.



Targhetta — *Nameplate*





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

Note / *Notes*

MINI TECNO™

small but strong

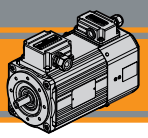
SM..SV

IP66 TRANSTECNO

AC

Motori elettrici CA servoventilati
AC electric motors with forced-ventilation

MINI TECNO™ brand of TRANSTECNO®



IP66 TRANSTECNO

SERVOFAN

Caratteristiche tecniche

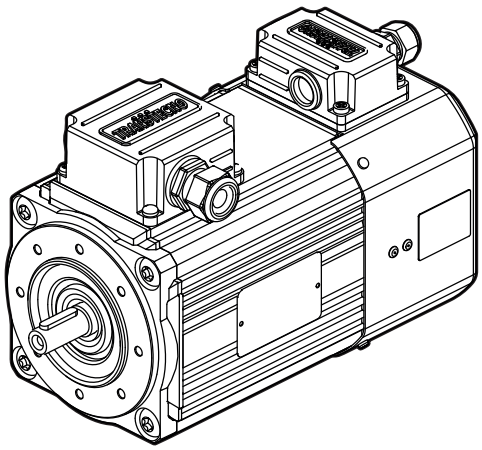
Technical characteristics

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

- Costruzione compatta
- Motorizzazioni in corrente alternata trifase
- Carcassa estrusa in alluminio anodizzato nero
- Motore elettrico AC 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
- La tolleranza di tensione è ±10% per tutti i motori

SMT..SV motor range has the following main features:

- *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 for running with frequency converter*
- *The voltage tolerance is ±10% for all motors*



IP66 TRANSTECNO

SERVOFAN

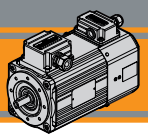
SMT..SV

Designazione

Classification

MOTORE TRIFASE SERVOVENTILATO / *THREE PHASE MOTOR WITH FORCED-VENTIALTION*

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** ... **0.75 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*
cosφ		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]	$\frac{V \times I \times \cos\varphi}{1000}$ (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*

AC

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 %	cosφ	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

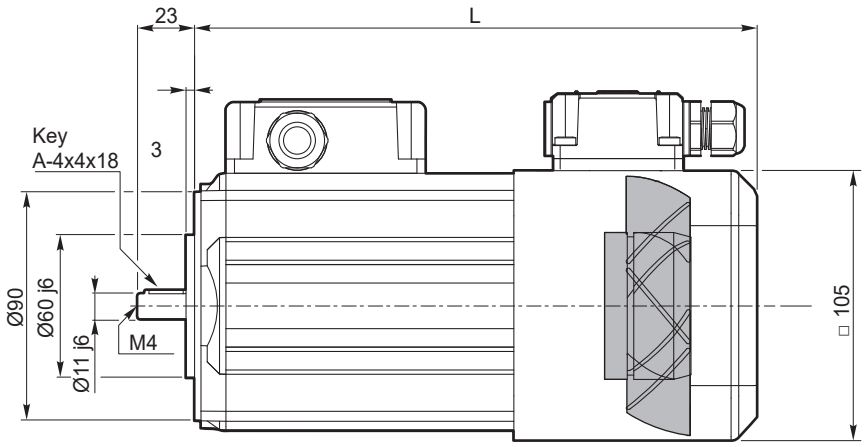
Alimentazione della servoventola: 200-240 Vac / 50-60 Hz

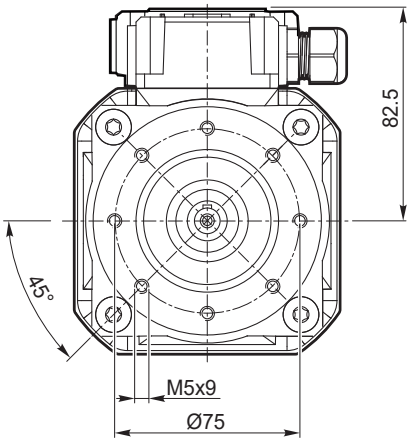
Forced ventilation supply voltage: 200-240 Vac / 50-60 Hz

Dimensioni motori trifase *Three phase motors dimensions*

3 ~

SMT63.. - B14 - SV

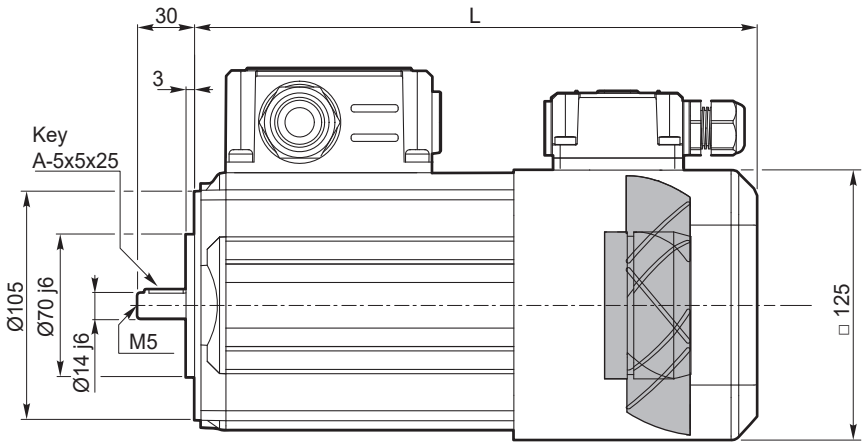


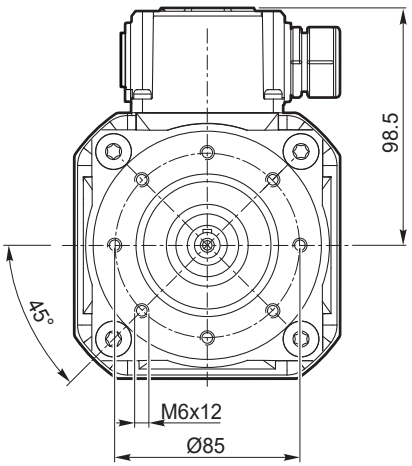


SMT	... SV	
	L	Kg
6324	210	5.0
6334	225	5.7
6344	250	6.8

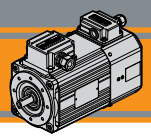
3 ~

SMT71.. - B14 - SV



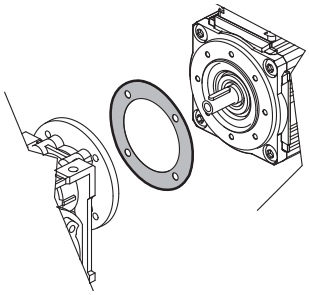


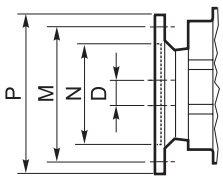
SMT	... SV	
	L	Kg
7124	219	7.5
7134	234	8.5
7144	259	10.2



Opzione guarnizione CA

Rubber gasket option





Dimensioni IEC / *IEC Dimensions*		
	63 B14	**71 B14**
N	60	70
M	75	85
P	90	105
D	**11**	**14**

Grado di protezione IP

IP protection rating

Indica il grado di isolamento meccanico del corpo motore.

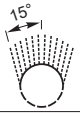
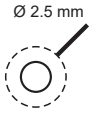
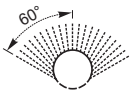
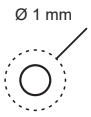
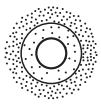
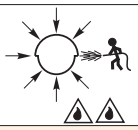
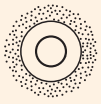
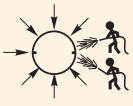
1ª cifra protezione alla penetrazione di corpi solidi.

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.*

AC

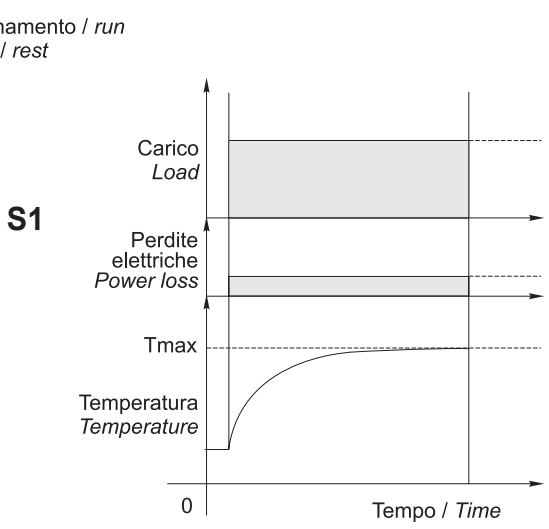
Tipi di servizi IEC — *IEC duty cycles*

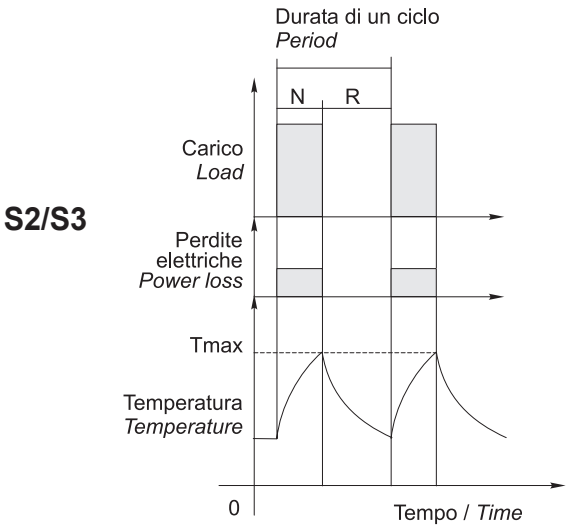
Il servizio di un motore indica il tipo di utilizzo e la gravosità del ciclo di lavoro.

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.

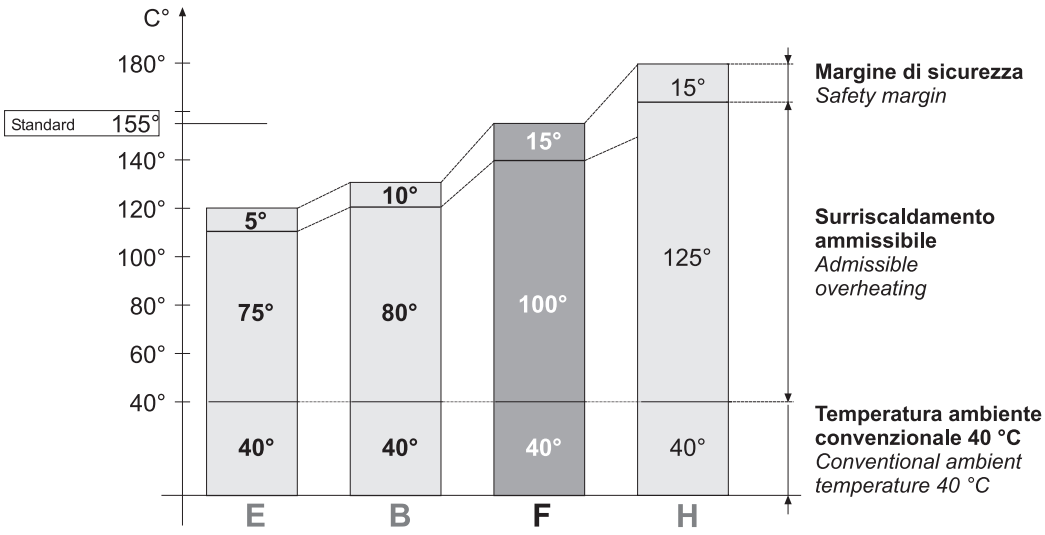
NOTE: The same motor can run under all duty services, limitation is due to internal temperature that must not override Tmax stated by motor thermal class.

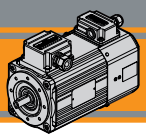
Classe di isolamento termico — *Insulation class*

La classe termica indica il grado di resistenza alla temperatura interna, nel punto più caldo (avvolgimenti).
Isolamento termico 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 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* AC3	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%

AC

Tabella pressacavi

Table of cable glands data

Serie SM..BR / *SM..BR Series*

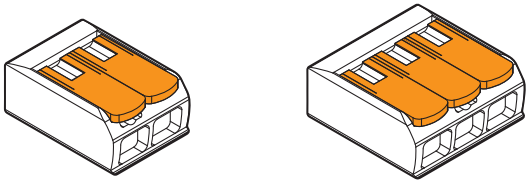
TAGLIA *SIZE*	Pressacavo *Cable gland*
63 / 71	1x M20x1.5

Connessioni e collegamenti - Motore

Connection diagram - Motor

Riferimenti

References

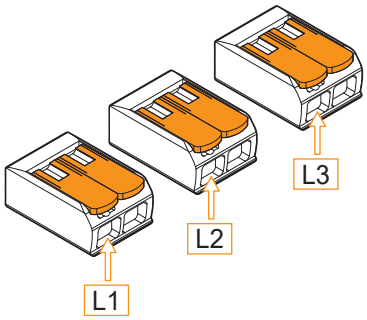


Morsetto di collegamento a leva a 2 e 3 poli
Splicing connector with lever2 - and 3 - pin.

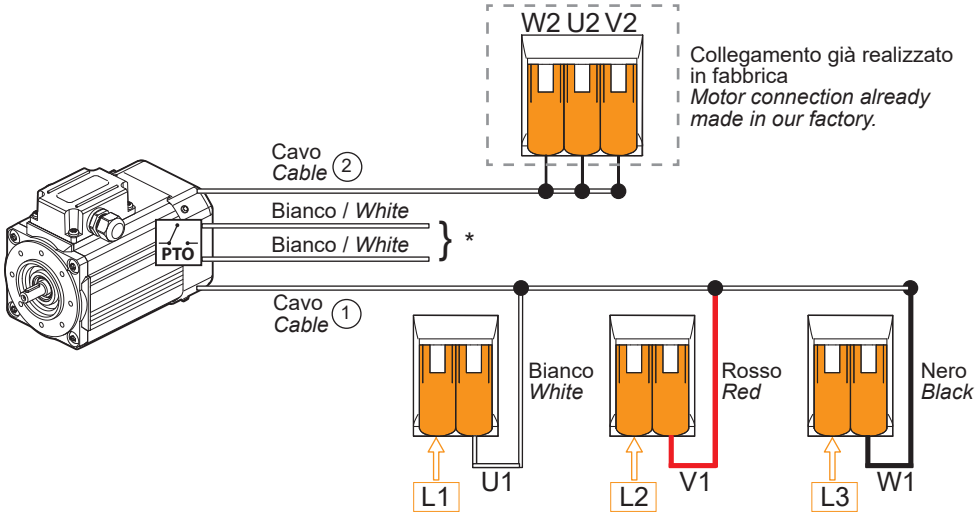
Connessioni e collegamenti - Motore — *Connection diagram - Motor*

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

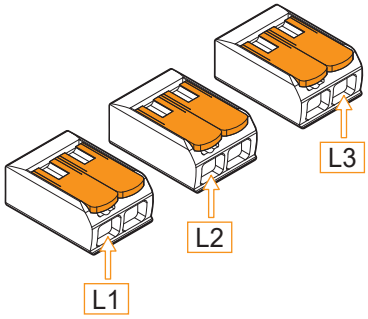


*: collegamento al circuito di comando del motore a cura del cliente. Per ragioni di sicurezza è sconsigliato il collegamento in serie. Se necessario contattare il Servizio Tecnico Transtecno. PTO disponibile per taglie 56, 63, 71, 80, 90.

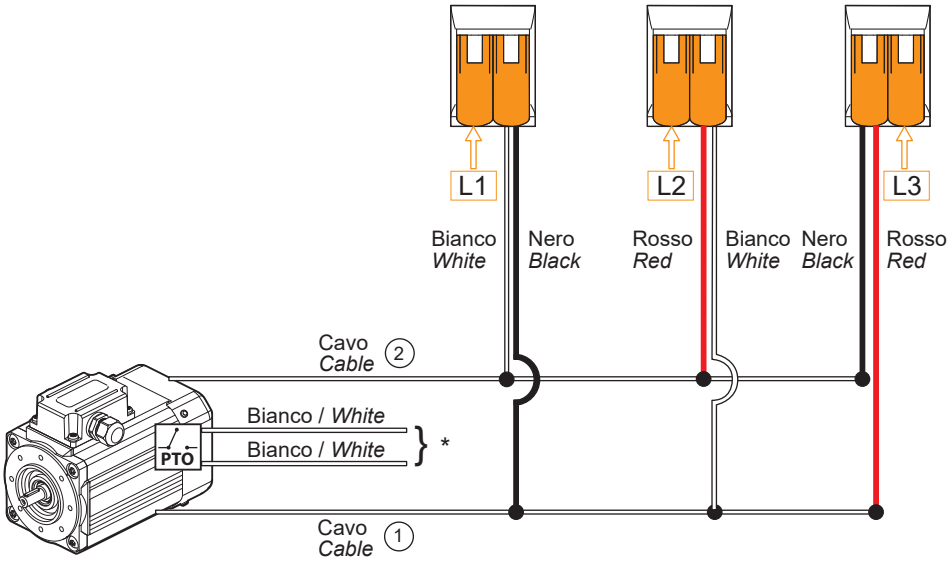
**: motor supply connection by the customer. For safety reason Transtecno advises against PTO connected in series. If needed, contact Transtecno Technical Service. PTO is available for sizes 56, 63, 71, 80, 90.*

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



*: 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, 80, 90.

**: 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, 80, 90.*

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 Servizio Tecnico Transtecno.

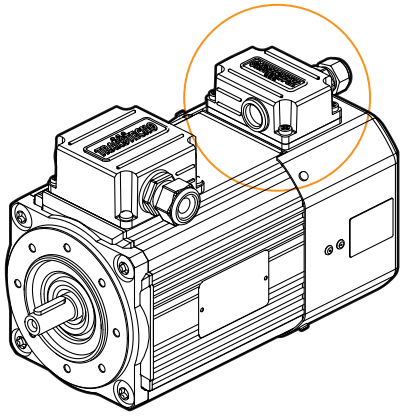
The SM series is supplied in star connection, the delta connection diagram shown above provides a clear indication of the modification that the customer can make independently. If needed, contact Transtecno Technical Service.

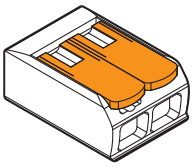
Connessioni e collegamenti - Servoventola

Connection diagram - Servo fan

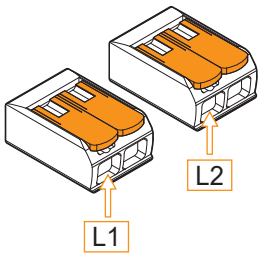
Riferimenti

References

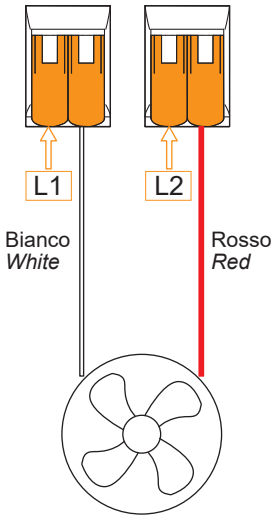




Morsetto di collegamento a leva a 2 poli
Splicing connector with lever 2 pin.

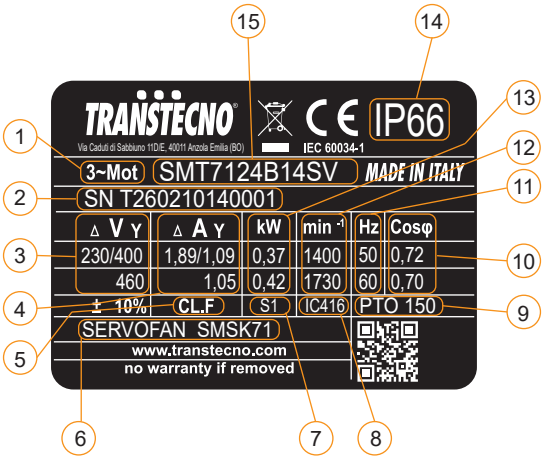


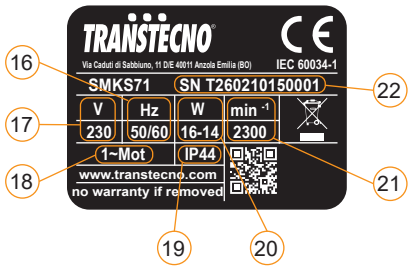
Morsetti a levetta liberi per alimentazione servoventola
Splicing connector with free-lever for the electric fan



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*

MINITECNO™

small but strong

SM..UL/CSA

IP66 TRANSTECNO

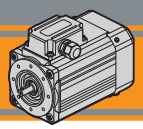
AC

Motori elettrici asincroni CA
AC asynchronous electric motors

c UL us

File E511911

MINITECNO™ brand of TRANSTECNO®



Caratteristiche tecniche

Technical characteristics

I motori certificati UL/CSA 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 (escluso condensatore)
- Rumorosità e vibrazioni contenute
- Isolamento termico di classe F
- Flangia motore IEC B14
- 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

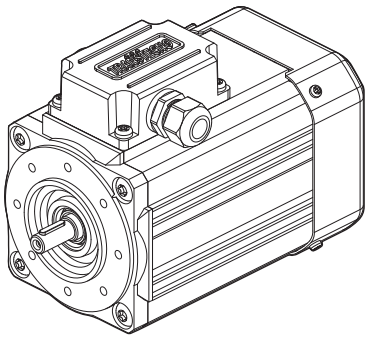
SMT and SMM motor range with UL/CSA Certification has the following main features:

- *Compact design*
- *AC single phase and three phase motors available*
- *Black anodized extruded aluminium housing*
- *AC electric motor in IP66 protection Standard (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: Motorsand Generators

SM .. TEFC



File E511911

IP66 TRANSTECNO

Designazione

Classification

MOTORE TRIFASE / *THREE PHASE MOTOR*

SMT	63	2	4	0.18 kW	B14	230-400 V	50 Hz	TEFC	UL-CSA
Tipo *Type*	Grandezza *Size*	Indicativo potenza *Power coefficient*	Poli *Poles*	Potenza *Power*	Forma costruttiva *Version*	Tensione *Voltage*	Frequenza *Frequency*	*Ventilazione Fan cooling*	Versione UL *UL Version*
SMT	Vedi tabelle *See tables*	**2 - 3**	**4**	**0.09 kW ... 0.66 kW**	**B14**	**230-400 V** **460V**	**50Hz** **60Hz**	**TEFC**	**UL-CSA**

SMT

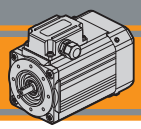
3 ~

MOTORE MONOFASE / *SINGLE PHASE MOTOR*

SMM	63	2	4	0.18 kW	B14	115 V	60 Hz	TEFC	UL-CSA
Tipo *Type*	Grandezza *Size*	Indicativo potenza *Power coefficient*	Poli *Poles*	Potenza *Power*	Forma costruttiva *Version*	Tensione *Voltage*	Frequenza *Frequency*	*Ventilazione Fan cooling*	Versione UL *UL Version*
SMM	Vedi tabelle *See tables*	**2 - 3**	**4**	**0.09 kW ... 0.37 kW**	**B14**	**115V**	**60Hz**	**TEFC**	**UL-CSA**

SMM

1 ~



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*
cosφ		Fattore di potenza al carico nominale	*Power factor at rated torque load*
η		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 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*

AC

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^{-1}]	V - f [V - Hz]	I_n (400-460 V) [A]	η %	cosφ	M_s/M_n	I_s/I_n	M_k/M_n	PTO [°C]	Servizio *Duty* TEFC
5624	0.09	0.63	1365	400 - 50	0.45	47.3	0.61	2.50	2.40	2.70	PTO 150°	S1
	0.11		1660	460 - 60		50.3		2.60	2.60			
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		

SMM Motori monofase / *SMM Single phase motors*

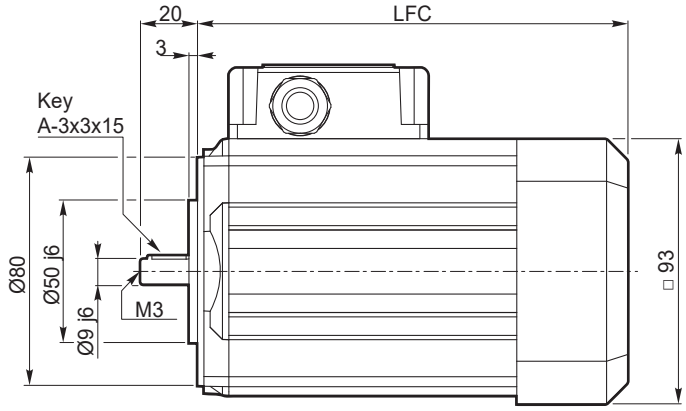
(115 V / 60 Hz) poli / *poles* 4

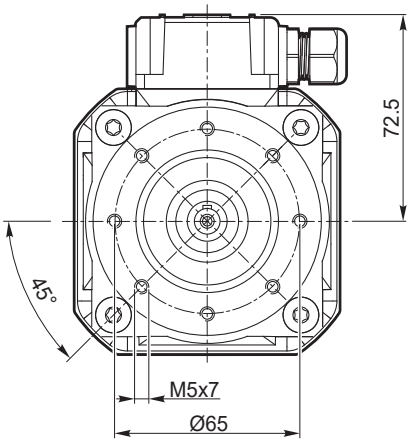
TAGLIA *SIZE*	P_n [kW]	M_n [Nm]	n_n [min^{-1}]	V - f [V - Hz]	I_n (115V) [A]	η %	cosφ	M_s/M_n	I_s/I_n	M_k/M_n	Cond/cap [µF]	PTO [°C]	Servizio *Duty* TEFC
5624	0.09	0.52	1665	115 - 60	1.60	50.0	0.98	0.64	1.95	1.51	20	PTO 150°	S1
6324	0.18	1.09	1570	115 - 60	2.70	58.5	0.99	1.0	2.1	1.50	40		
7124	0.37	2.18	1620	115 - 60	4.70	69.8	0.98	0.64	2.3	1.33	60		

Dimensioni motori trifase *Three phase motors dimensions*

3 ~

SMT56.. - B14 - TEFC

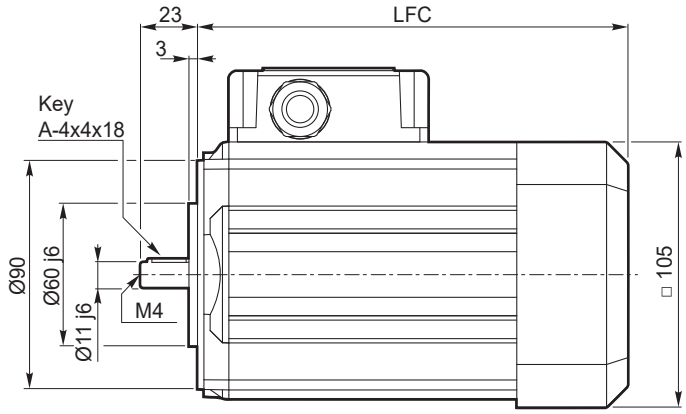


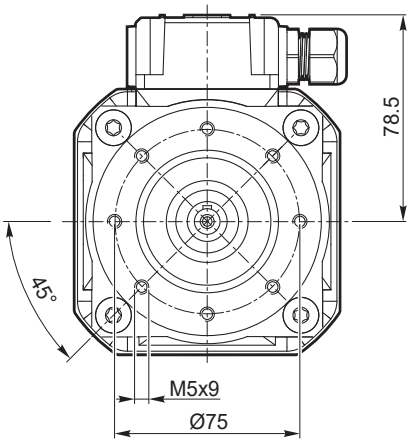


SMT	... TEFC	
	LFC	Kg
5624	186	3.1
5634	186	3.5

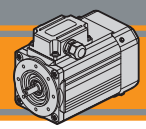
3 ~

SMT63.. - B14 - TEFC





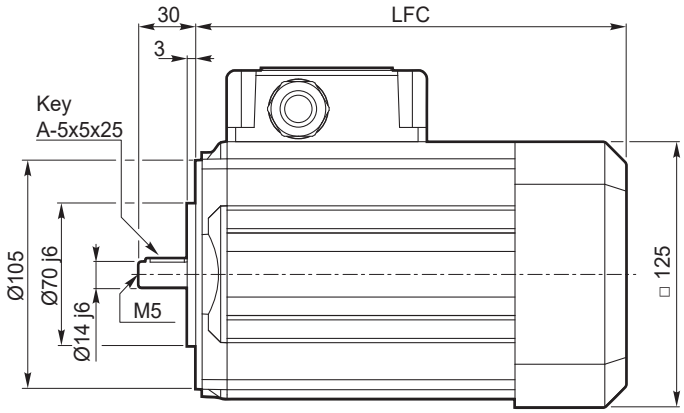
SMT	... TEFC	
	LFC	Kg
6324	205.5	4.7
6334	205.5	5.4

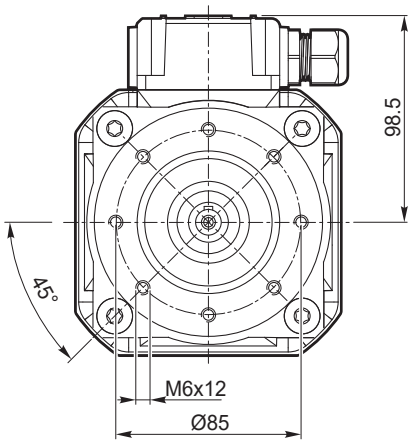


Dimensioni motori trifase *Three phase motors dimensions*

3 ~

SMT71.. - B14 - TEFC



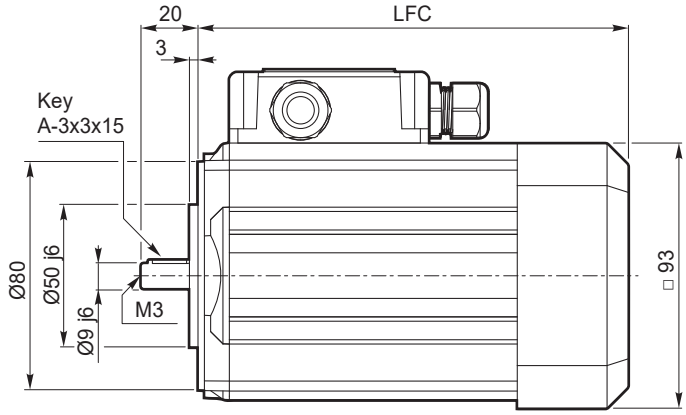


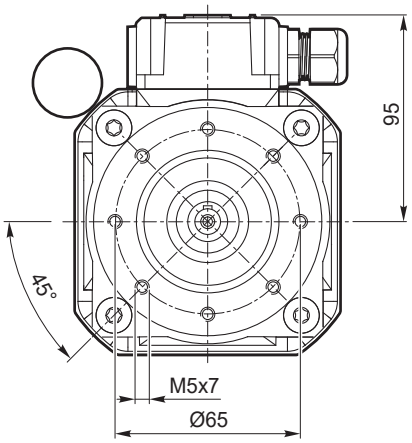
SMT	... TEFC	
	LFC	Kg
7124	214	7.0
7134	214	8.2

AC

Dimensioni motori monofase *Single phase motors dimensions*

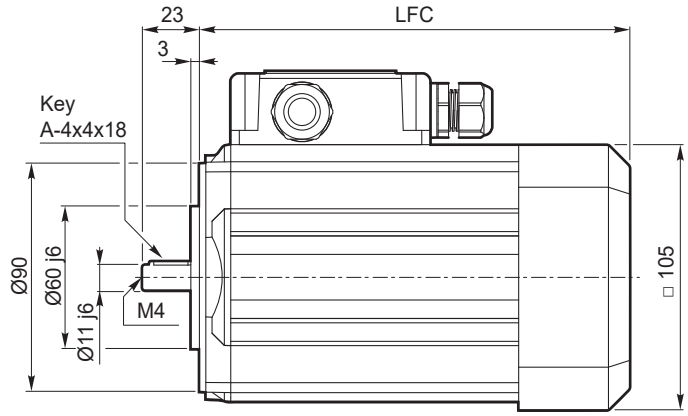
1 ~ SMM56.. - B14 - TEFC

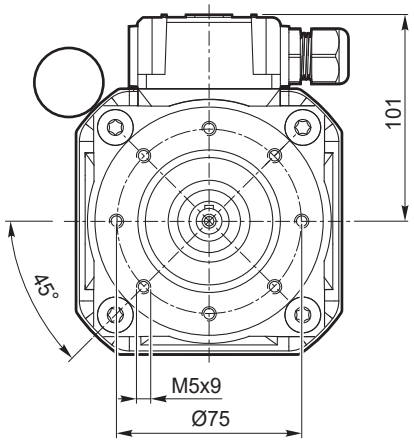




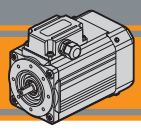
SMM	... TEFC	
	LFC	Kg
5624	186	3.6

1 ~ SMM63.. - B14 - TEFC





SMM	... TEFC	
	LFC	Kg
6324	205.5	5.5

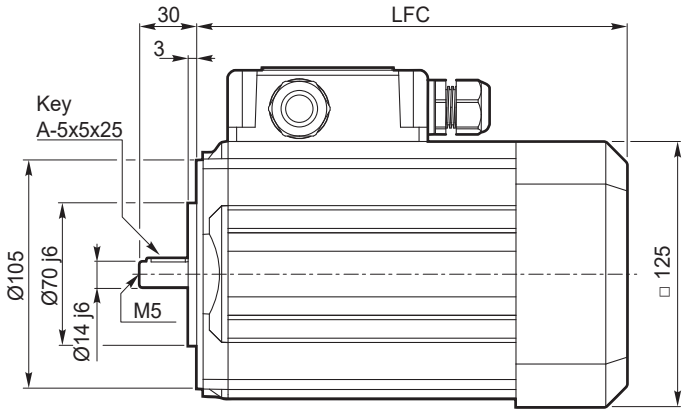


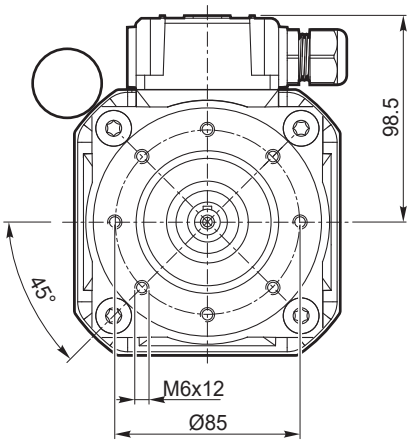
Dimensioni motori monofase

Single phase motors dimensions

1 ~

SMM71.. - B14 - TEFC

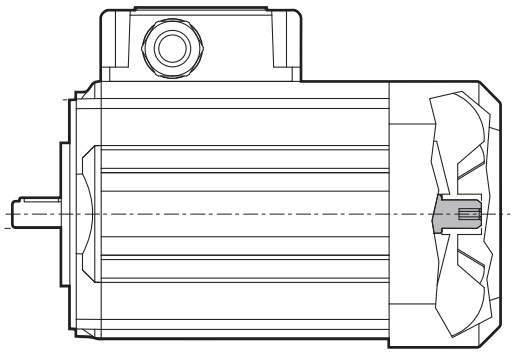


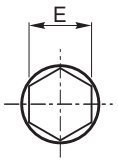


SMM	... TEFC	
	LFC	Kg
7124	214	8.0

AC

Cava esagonale — *Hexagonal socket*





Esagono / *Hexagon*

SM..	E
56	4
63	
71	6

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.

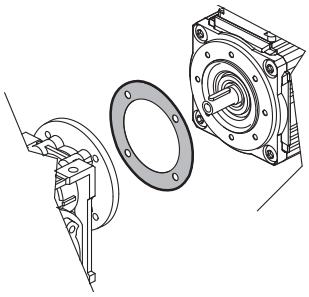
E' severamente vietata la messa in servizio del motore elettrico senza copriventola opportunamente montata.

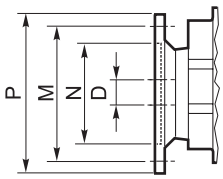
Note:

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**
N	50	60	70
M	65	75	85
P	80	90	105
D	**9**	**11**	**14**

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.

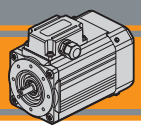
Optional versions with brake and encoder are available on request on some models. Motor sizes bigger than those indicated in the catalogue are available on request.
Please contact our Technical Service.

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.

File E511911



Grado di protezione IP

IP protection rating

Indica il grado di isolamento meccanico del corpo motore.

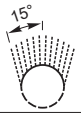
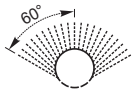
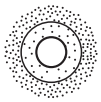
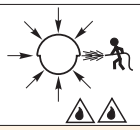
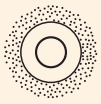
1ª cifra protezione alla penetrazione di corpi solidi.

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.*

AC

Tipi di servizi IEC

IEC duty cycles

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

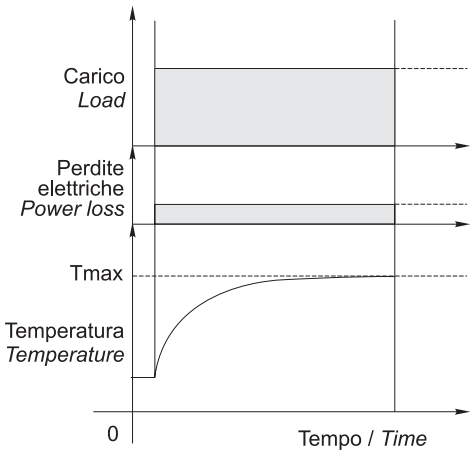
The duty cycle of a motor indicates its use and running cycle.

Grafico servizi più comuni

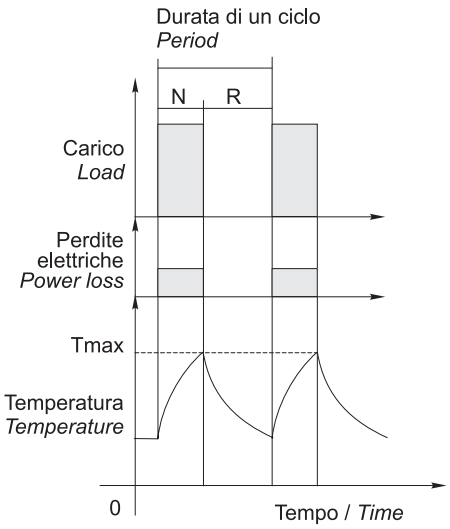
Most common duty cycles diagram

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.

Tabella pressacavi

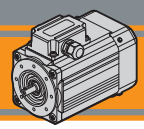
Table of cable glands data

Serie SMT / *SMT Series*

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

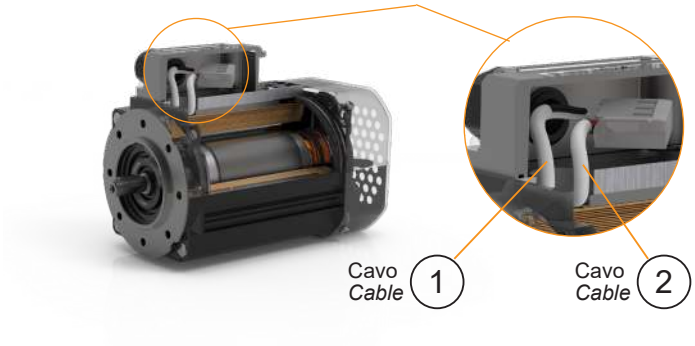
Serie SMM / *SMM Series*

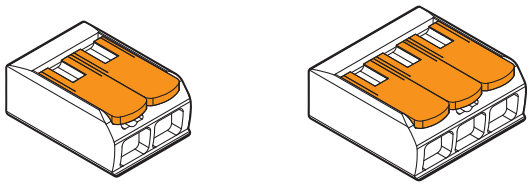
TAGLIA *SIZE*	Pressacavo *Cable gland*
56 / 63	2 x M16x1.5
71	1x M20x1.5 + 1 x M16x1.5



Connessioni e collegamenti — *Connection diagram*

Riferimenti — *References*

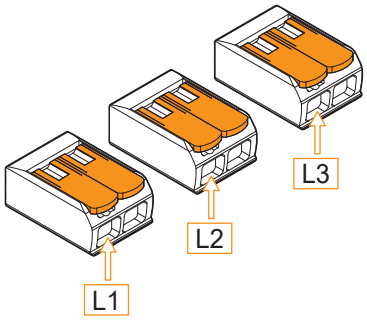




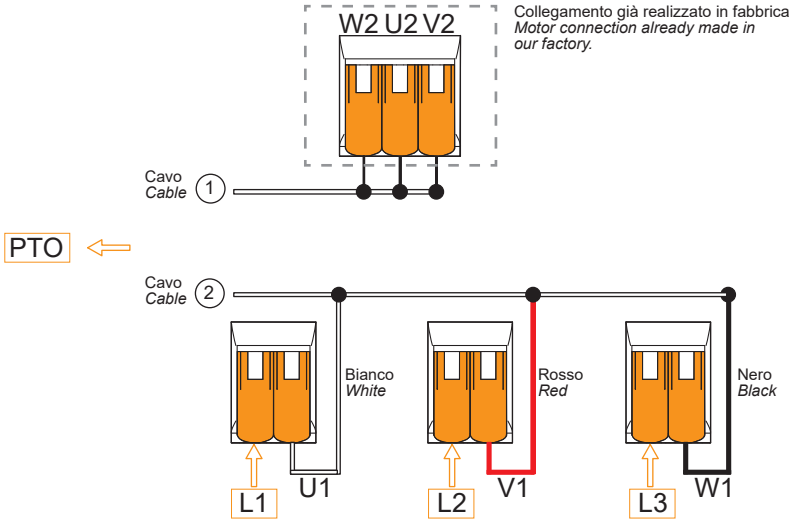
Morsetto di collegamento a leva a 2 e 3 poli
Splicing connector with lever 2 - and 3 - pin.

400/460 V - Trifase / *three phase*

Collegamento a stella / *Star connection*

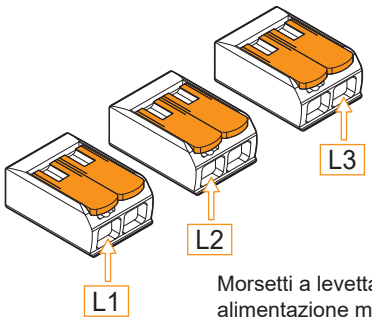


Morsetti a levetta liberi per alimentazione motore
Splicing connector with free-lever for the motor power source



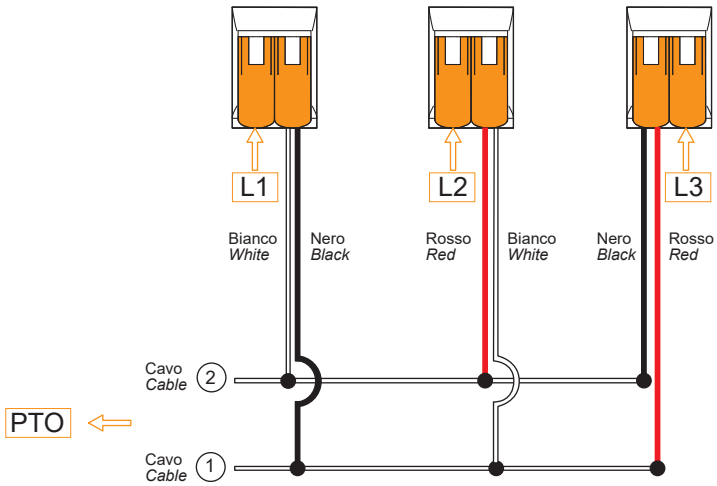
230 V - Trifase / *three phase*

Collegamento a triangolo / *Delta connection*



Morsetti a levetta liberi per alimentazione motore

Splicing connector with free-lever for the motor power source



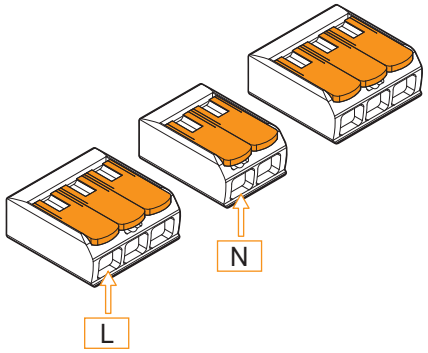
I motori della serie SM sono forniti in collegamento a stella, lo schema di collegamento a triangolo sopra riportato fornisce una chiara indicazione delle modifiche che il cliente può apportare in autonomia. Senecessario contattare il Serziaio Tecnico Transtecno.

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.

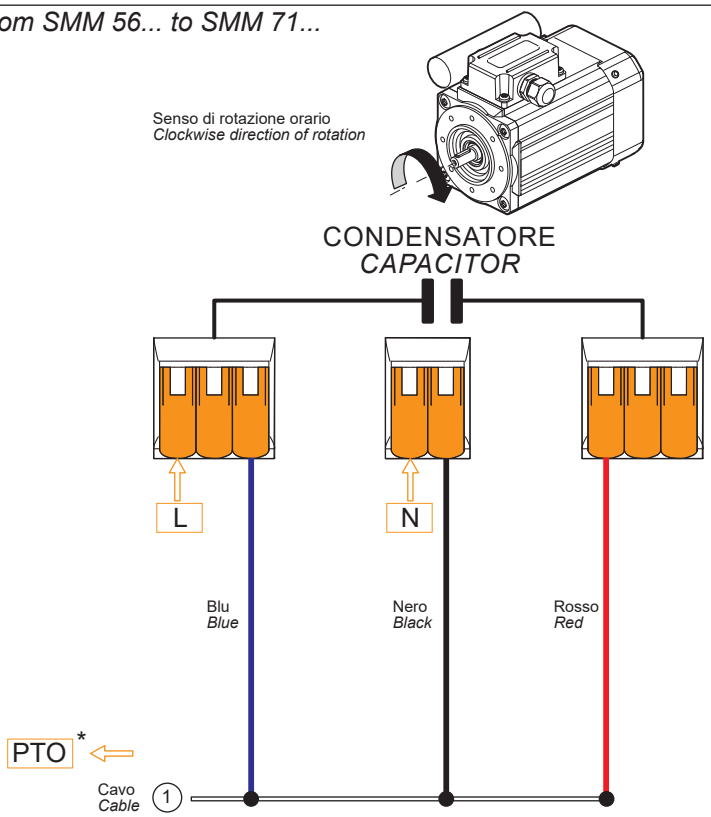
Connessioni e collegamenti — *Connection diagram*

115 V - Monofase / *single phase*

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

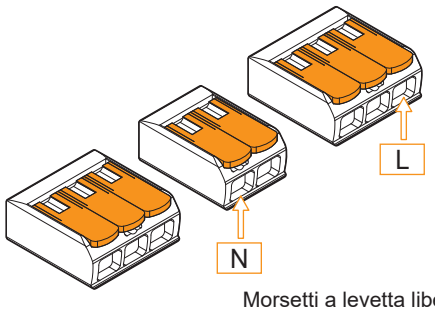


Morsetti a levetta liberi per alimentazione motore
Splicing connector with free-lever for the motor power source



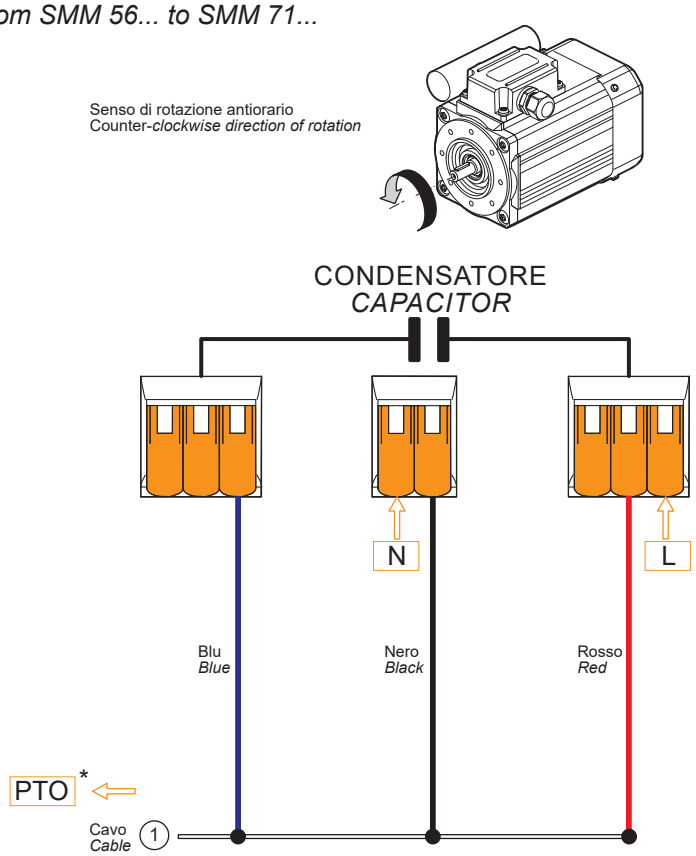
115 V - Monofase / *single phase*

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



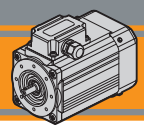
Morsetti a levetta liberi per alimentazione motore

Splicing connector with free-lever for the motor power source

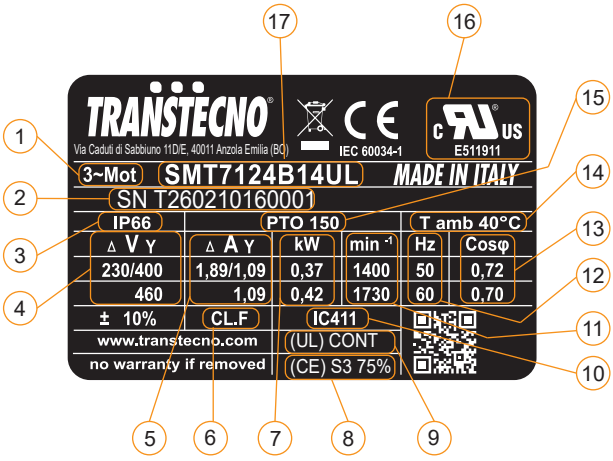


*: collegamento al circuito di comando del motore a cura del cliente. Per ragioni di sicurezza è sconsigliato il collegamento in serie. Se necessario contattare il Servizio Tecnico Transtecno.

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



Targhetta — *Nameplate*



Pos.	Descrizione	*Description*
1	Tipo di alimentazione	*Power supply*
2	Numero di serie	*Serial number*
3	Grado di protezione IP motore	*Motor IP protection rating*
4	Tensione di alimentazione	*Supply voltage*
5	Corrente nominale	*Rated current*
6	Classe di isolamento	*Insulation class*
7	Potenza nominale	*Rated power*
8	Servizio per certificazione CE	*CE compliance duty*
9	Servizio per certificazione UL/CSA	*UL/CSA compliance duty*
10	Ventilazione	*Fan cooling*
11	Velocità nominale	*Rated speed*
12	Frequenza nominale	*Rated frequency*
13	Fattore di potenza	*Power factor*
14	Temperatura ambiente massima	*Max allowed ambient temperature*
15	Protezione termica PTO 150°C	*PTO 150°C Thermal protection*
16	Certificazione UL/CSA	*UL/CSA compliance*
17	Tipo di motore	*Motor type*

Note / *Notes*

MINI TECNO™

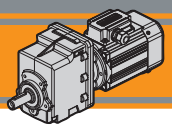
small but strong

CMG

AC

Motoriduttori CA ad ingranaggi cilindrici
AC Helical in-line gearmotors

MINI TECNO™ brand of TRANSTECNO®



ENERGY SAVING

Caratteristiche tecniche

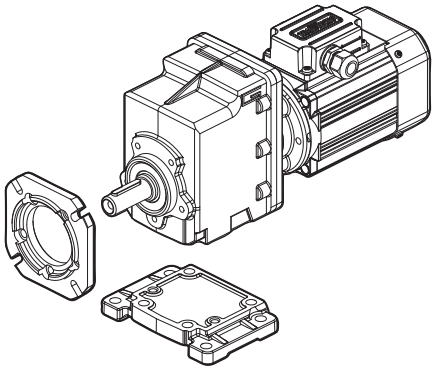
Le caratteristiche principali dei motoriduttori CMG sono:

- Costruzione compatta
- Motorizzazioni in corrente alternata monofase e trifase
- Carcassa motore estrusa in alluminio anodizzato nero
- Carcasse dei riduttori in pressofusione di alluminio
- Motore elettrico AC con grado di protezione IP66
- Lubrificazione permanente con olio sintetico
- Ingranaggi cilindrici a denti elicoidali, induriti e rettificati
- Disponibili sia nella versione ventilata TEFC (servizio S1) che non ventilata TENV (servizio S3)
- Protezione termica PTO 150°C per le taglie motore 56, 63 e 71.
- SMT56, SMT63 e SMT71 adatti al funzionamento con alimentazione da inverter
- Disponibili nelle versioni autofrenante, servoventilata e con certificazione UL.
- Disponibili con giunto elastico in entrata

Technical features

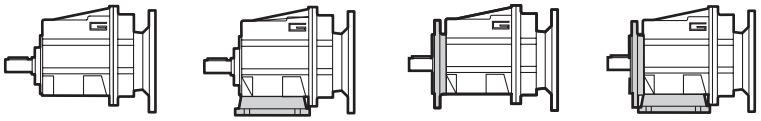
CMG gearmotor range has the following main features:

- *Compact design*
- *AC single phase and three phase motors available*
- *Motor extruded aluminum housing black anodized*
- *Gearbox die-cast aluminum housing*
- *AC electric motor in IP66 protection Standard*
- *Permanent synthetic oil long-life lubrication*
- *Ground-hardened helical gears*
- *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*
- *Brake motors, forced ventilation motors and UL compliance versions available.*
- *Available with input flexible couplin*



Designazione

Classification

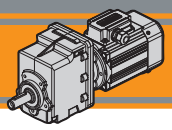


RIDUTTORE / *GEARBOX*

CMG	00	2	H60	10.16	D20	63	B14	FX
Tipo *Type*	Grandezza *Size*	Stadi *Stages*	Versione *Version*	Rapporto *Ratio*	Albero uscita *Output shaft*	IEC	Forma costruttiva *Version*	Giunto elastico *Flexible coupling*
CMG	**00**	**2** **3**	**U...** **H...** **F...** **H.../F...**	vedi tabelle *see tables*	vedi tabelle *see tables*	**56..** **63..** **71..**	**B14**	**FX** I7

MOTORE TRIFASE / *THREE PHASE MOTOR*

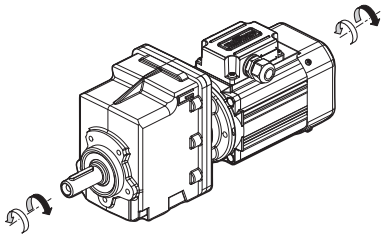
SMT	63	2	4	0.18 kW	B14	230-400 V	50 Hz	TEFC	BR	T1
Tipo *Type*	Grandezza *Size*	Indicativo potenza *Power coefficient*	Poli *Poles*	Potenza *Power*	Forma costruttiva *Version*	Tensione *Voltage*	Frequenza *Frequency*	*Ventilazione Fan cooling*	*Opzioni Options*	Pos. Morsettiera *Terminal box pos.*
SMT	Vedere tab. *See tab.*	**1-2-3-4-5**	**4**	**0.04 kW** ... **0.75 kW**	**B14**	**230-400 V** **460V**	**50Hz** **60Hz**	**TEFC** **TENV**	AB1 AC1 AD1	**T1** (Std) T4 T2 T3



MOTORE MONOFASE / *SINGLE PHASE MOTOR*

SMM	63	2	4	0.18 kW	B14	230 V	50 Hz	TEFC	UL-CSA	T1
Tipo *Type*	Grandezza *Size*	Indicativo potenza *Power coefficient*	Poli *Poles*	Potenza *Power*	Forma costruttiva *Version*	Tensione *Voltage*	Frequenza *Frequency*	*Ventilazione Fan cooling*	*Opzioni Options*	Pos. Morsettiera *Terminal box pos.*
SMM	Vedere tab. *See tab.*	**1-2-3-4**	**4**	**0.04 kW ... 0.55 kW**	**B14**	**230V**	**50Hz**	**TEFC** **TENV**	AD1	**T1** (Std) **T4** **T2** **T3**

Sensi di rotazione — *Direction of rotation*



Lubrificazione — *Lubrication*

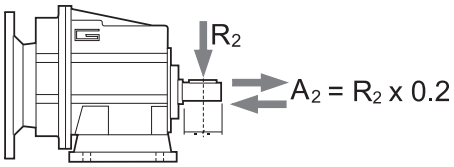
Tutti i riduttori sono forniti completi di lubrificante sintetico viscosità 320, pertanto possono essere installati in qualunque posizione di montaggio e non necessitano di manutenzione.

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

Simbologia — *Symbols*

n_1	[min^{-1}]	Velocità in ingresso / *Input speed*
n_2	[min^{-1}]	Velocità in uscita / *Output speed*
i		Rapporto di riduzione / *Ratio*
P_1	[kW]	Potenza in entrata / *Input power*
M_2	[Nm]	Coppia nominale in uscita in funzione di P_1 / *Output torque referred to P_1*
sf		Fattore di servizio / *Service factor*
R_2	[N]	Carico radiale ammissibile in uscita / *Permitted output radial load*
A_2	[N]	Carico assiale ammissibile in uscita / *Permitted output axial load*

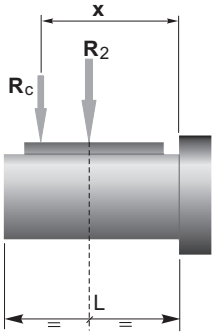
Carichi radiali — *Radial loads*



	CMG 002												
n_2 [min^{-1}]	700	600	500	400	250	180	150	120	100	80	60	40	10
R_2 [N]	416	437	465	501	586	653	748	806	958	1032	1136	1300	1300

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:



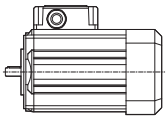
	CMG 002
a	73
b	53
R_{2MAX}	1300

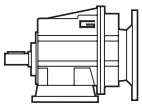
$$R_c = \frac{R_2 \cdot a}{(b+x)} \leq R_{2MAX}$$

$$R \leq R_c$$

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

Motori applicabili — *IEC Motor adapters*





		SMT				SMM			
		5014 5024 5034 5044	5624 5634 5644 5654	6324 6334 6344	7124 7134 7144	5014 5024 5034	5624 5634 5644	6324 6334	7124 7134
CMG	002	5.03 - 55.10							

5.03 - 55.10 Rapporti di riduzione i / *Ratio i*

Dati tecnici — *Technical data*

0.04

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i	
SMT5014	**279**	1	30.4	5.03	**CMG002**
SMM5014	**230**	2	25.0	6.10	
(1400 min^{-1})	**187**	2	20.4	7.49	
SMT SMM	**156**	2	21.2	8.99	
	138	3	18.8	10.16	
	116	3	15.8	12.07	
	105	4	20.0	13.40	
	92	4	17.7	15.14	
	77	5	14.7	18.17	
	65	6	12.4	21.58	
	60	6	11.4	23.51	
	56	7	10.6	25.10	
	52	7	9.9	27.08	
	43	9	8.2	32.49	
	33	11	6.4	42.04	
	31	12	6.0	44.89	
	29	13	5.5	48.86	
	25	14	4.8	55.10	

0.06

SMT5024	**279**	2	20.3	5.03	**CMG002**
SMM5024	**230**	2	16.7	6.10	
(1400 min^{-1})	**187**	3	13.6	7.49	
SMT SMM	**156**	4	14.2	8.99	
	138	4	12.5	10.16	
	116	5	10.5	12.07	
	105	5	13.3	13.40	
	92	6	11.8	15.14	
	77	7	9.8	18.17	
	65	8	8.3	21.58	
	60	9	7.6	23.51	
	56	10	7.1	25.10	
	52	11	6.6	27.08	
	43	13	5.5	32.49	
	33	17	4.2	42.04	
	31	18	4.0	44.89	
	29	19	3.6	48.86	
	25	22	3.2	55.10	

0.09

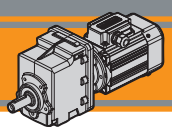
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i	
SMT5034	**279**	3	13.5	5.03	**CMG002**
SMM5034	**230**	4	11.1	6.10	
SMT5624	**187**	4	9.1	7.49	
SMM5624	**156**	5	9.4	8.99	
(1400 min^{-1})	**138**	6	8.3	10.16	
SMT SMM	**116**	7	7.0	12.07	
	105	8	8.9	13.40	
	92	9	7.8	15.14	
	77	11	6.5	18.17	
	65	13	5.5	21.58	
	60	14	5.1	23.51	
	56	15	4.7	25.10	
	52	16	4.4	27.08	
	43	19	3.7	32.49	
	33	25	2.8	42.04	
	31	26	2.6	44.89	
	29	29	2.4	48.86	
	25	32	2.2	55.10	

0.12

SMT5044	**279**	4	10.1	5.03	**CMG002**
SMT5634	**230**	5	8.3	6.10	
SMM5634	**187**	6	6.8	7.49	
(1400 min^{-1})	**156**	7	7.1	8.99	
SMT SMM	**138**	8	6.3	10.16	
	116	9	5.3	12.07	
	105	11	6.7	13.40	
	92	12	5.9	15.14	
	77	14	4.9	18.17	
	65	17	4.1	21.58	
	60	18	3.8	23.51	
	56	20	3.5	25.10	
	52	21	3.3	27.08	
	43	26	2.7	32.49	
	33	33	2.1	42.04	
	31	35	2.0	44.89	
	29	38	1.8	48.86	
	25	43	1.6	55.10	

IEC

Motori *Motors*	SMT		SMM	
	5014 5024 5034 5044	5624 5634	5014 5024 5034	5624 5634 5644
IEC	56 B14		56 B14	



Dati tecnici — *Technical data*

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i	
0.18					
SMT5644	**279**	6	6.8	5.03	**CMG002**
SMM5644	**230**	7	5.6	6.10	
SMT6324	**187**	9	4.5	7.49	
SMM6324	**156**	11	4.7	8.99	
(1400 min^{-1})	**138**	12	4.2	10.16	
SMT SMM	**116**	14	3.5	12.07	
	105	16	4.4	13.40	
	92	18	3.9	15.14	
	77	21	3.3	18.17	
	65	25	2.8	21.58	
	60	28	2.5	23.51	
	56	30	2.4	25.10	
	52	32	2.2	27.08	
	43	38	1.8	32.49	
	33	50	1.4	42.04	
	31	53	1.3	44.89	
	29	58	1.2	48.86	
	25	65	1.1	55.10	
0.25					
SMT5654	**279**	8	4.9	5.03	**CMG002**
SMT6334	**230**	10	4.0	6.10	
SMM6334	**187**	12	3.3	7.49	
(1400 min^{-1})	**156**	15	3.4	8.99	
SMT SMM	**138**	17	3.0	10.16	
	116	20	2.5	12.07	
	105	22	3.2	13.40	
	92	25	2.8	15.14	
	77	30	2.4	18.17	
	65	35	2.0	21.58	
	60	38	1.8	23.51	
	56	41	1.7	25.10	
	52	44	1.6	27.08	
	43	53	1.3	32.49	
	33	69	1.0	42.04	
	31	73	1.0	44.89	
	29	80	0.9	48.86	
	25	90	0.8	55.10	

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i	
0.37					
SMT6344	**279**	12	3.3	5.03	**CMG002**
SMT7124	**230**	15	2.7	6.10	
SMM7124	**187**	18	2.2	7.49	
(1400 min^{-1})	**156**	22	2.3	8.99	
SMT SMM	**138**	25	2.0	10.16	
	116	29	1.7	12.07	
	105	32	2.2	13.40	
	92	37	1.9	15.14	
	77	44	1.6	18.17	
	65	52	1.3	21.58	
	60	57	1.2	23.51	
	56	61	1.2	25.10	
	52	66	1.1	27.08	
	43	79	0.9	32.49	
0.55					
SMT7134	**279**	18	2.2	5.03	**CMG002**
SMM7134	**230**	22	1.8	6.10	
(1400 min^{-1})	**187**	27	1.5	7.49	
SMT SMM	**156**	32	1.5	8.99	
	138	37	1.4	10.16	
	116	43	1.2	12.07	
	105	48	1.5	13.40	
	92	55	1.3	15.14	
	77	65	1.1	18.17	
	65	78	0.9	21.58	
0.75					
SMT7144	**279**	25	1.6	5.03	**CMG002**
(1400 min^{-1})	**230**	30	1.3	6.10	
SMT SMM	**187**	37	1.1	7.49	
	156	44	1.1	8.99	
	138	50	1.0	10.16	
	116	59	0.8	12.07	
	105	66	1.1	13.40	
	92	74	0.9	15.14	

IEC

Motori *Motors*	SMT			SMM		
	5644 5654	6324 6334 6344	7124 7134 7144	5644	6324 6334	7124 7134
IEC	56 B14	63 B14	71 B14	56 B14	63 B14	71 B14

Dati tecnici elettrici — *Electrical technical data*

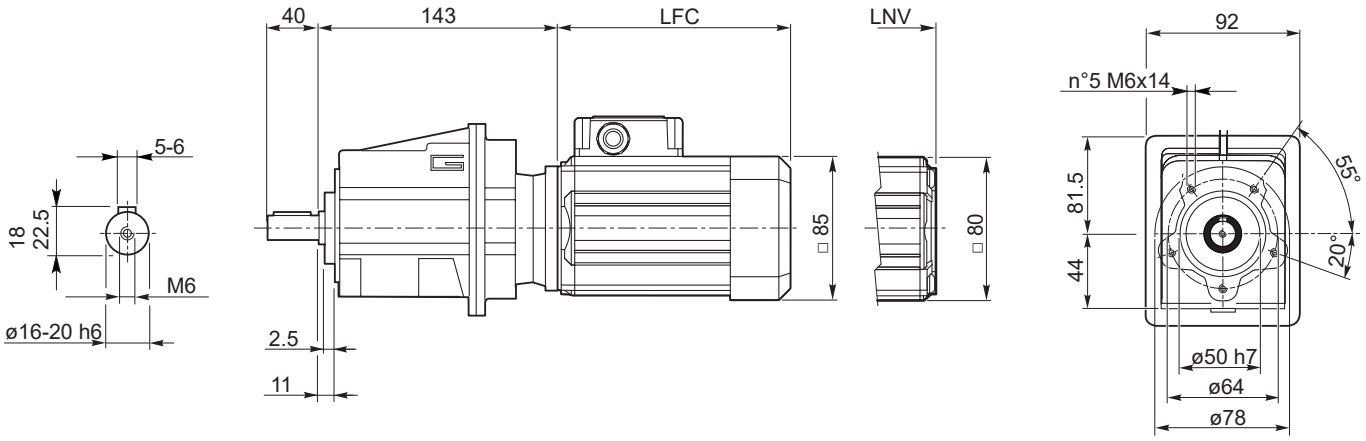
SMT SMM → AA3

Dimensioni | *Dimensions*

CMG 002 U

CMG 002 U

SMT50...TEFC **SMT50...TENV**
SMM50... TEFC **SMM50... TENV**
S3 servizio *duty* **30%**



SMT	LFC	LNV	Kg
5014	135.5	108.5	5.2
5024	150.5	123.5	5.6
5034	175.5	148.5	6.4
5044	200.5	173.5	7.1

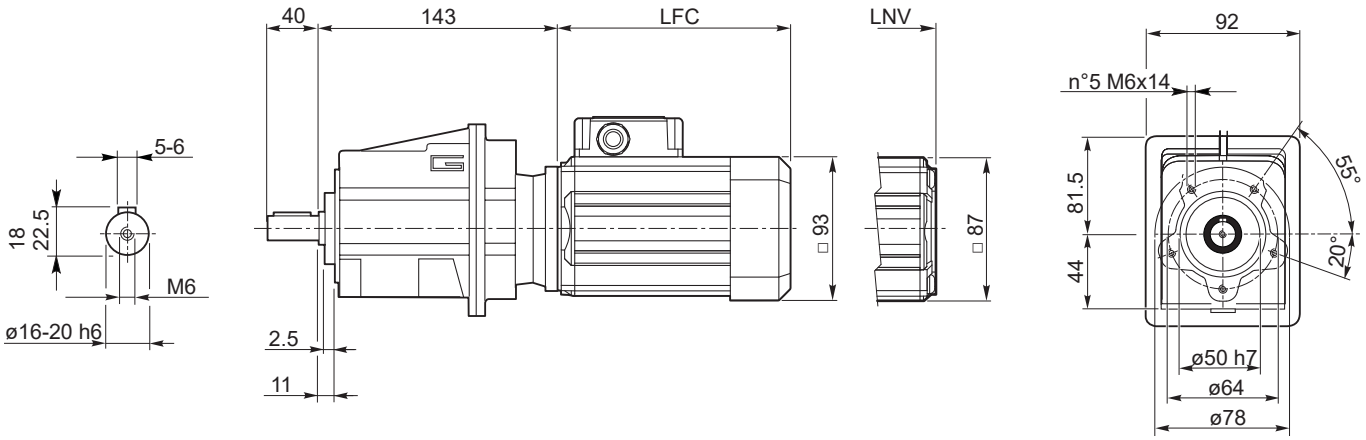
SMM	LFC	LNV	Kg
5014	150.5	123.5	5.6
5024	175.5	148.5	6.4
5034	200.5	173.5	7.1

Nota: il condensatore sarà fornito a corredo
Note: *the capacitor will be supplied separately*

CMG...H → AE8
CMG...F → AE8
CMG...H/F → AE9

CMG 002 U

SMT56...TEFC **SMT56...TENV**
SMM56... TEFC **SMM56... TENV**
S3 servizio *duty* **30%**

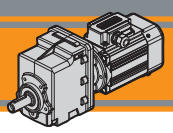


SMT	LFC	LNV	Kg
5624	141	117	5.7
5634	151	127	6.1
5644	186	162	7.3
5654	206	182	8

SMM	LFC	LNV	Kg
5624	151	127	6
5634	171	147	6.6
5644	206	182	7.9

Nota: il condensatore sarà fornito a corredo
Note: *the capacitor will be supplied separately*

CMG...H → AE8
CMG...F → AE8
CMG...H/F → AE9
SMT SMM OPTIONS → AB1 AC1 AD1



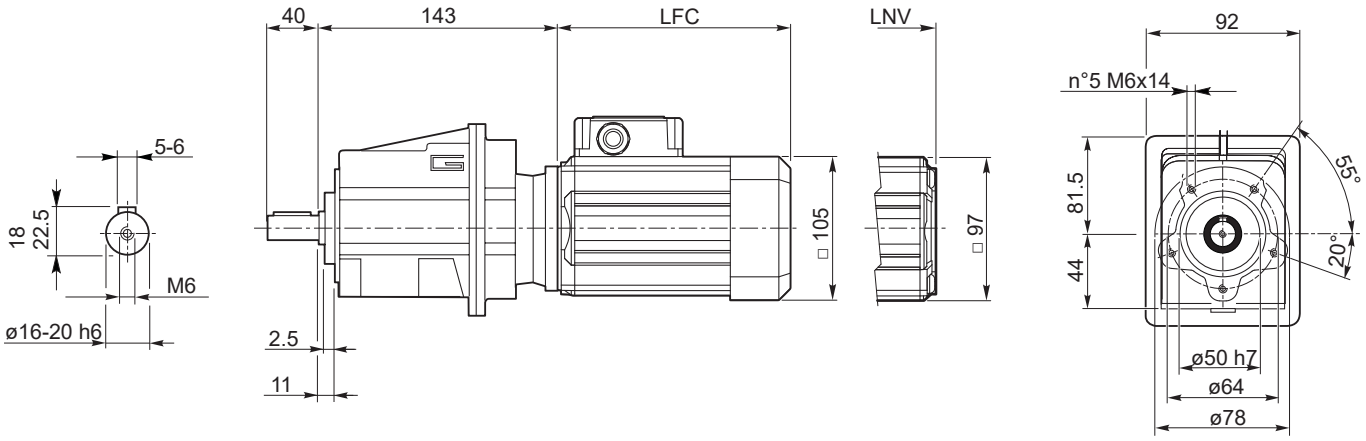
CMG 002 U

CMG 002 U

SMT63...TEFC
SMM63... TEFC

SMT63...TENV
SMM63... TENV

S3 servizio *duty* **30%**



SMT	LFC	LNV	Kg
6324	165.5	138.5	7.2
6334	180.5	153.5	7.9
6344	205.5	178.5	9.1

SMM	LFC	LNV	Kg
6324	180.5	153.5	8
6334	205.5	178.5	9.2

Nota: il condensatore sarà fornito a corredo
Note: *the capacitor will be supplied separately*

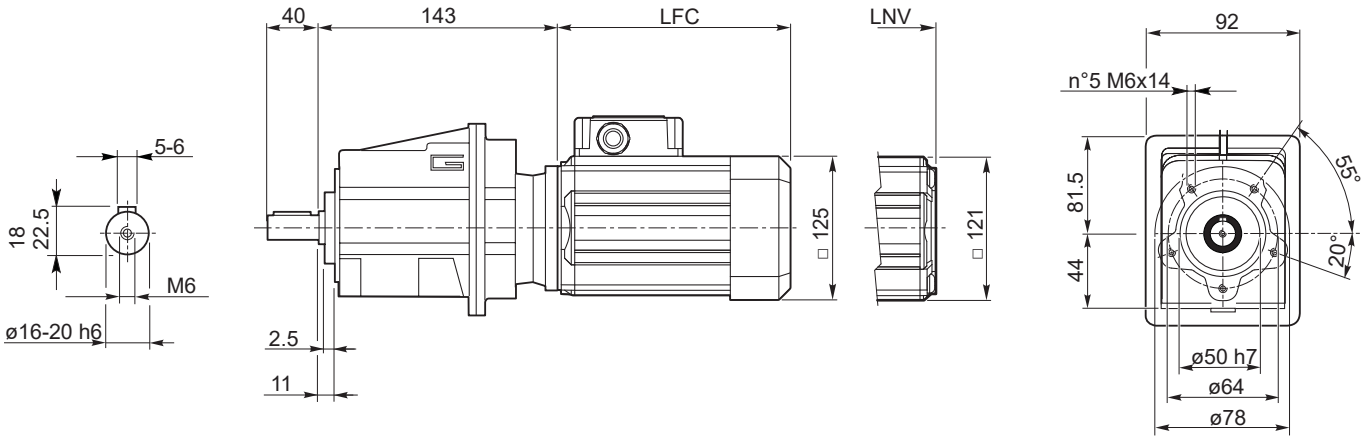
CMG...H → AE8
CMG...F → AE8
CMG...H/F → AE9
SMT SMM OPTIONS → AB1 AC1 AD1

CMG 002 U

SMT71...TEFC
SMM71.. TEFC

SMT71...TENV
SMM71... TENV

S3 servizio *duty* **30%**



SMT	LFC	LNV	Kg
7124	174	174	9.4
7134	189	189	10.5
7144	214	214	12.2

SMM	LFC	LNV	Kg
7124	189	160.5	10.1
7134	214	185.5	12.1

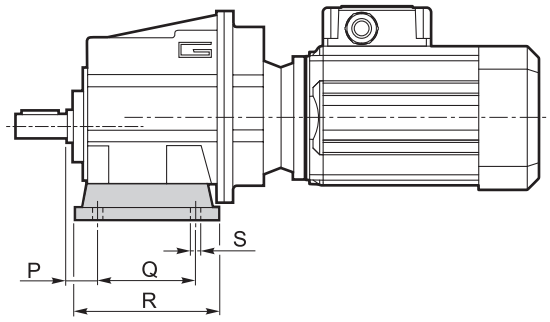
Nota: il condensatore sarà fornito a corredo
Note: *the capacitor will be supplied separately*

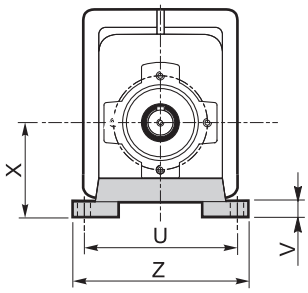
CMG...H → AE8
CMG...F → AE8
CMG...H/F → AE9
SMT SMM OPTIONS → AB1 AC1 AD1

Dimensioni *Dimensions*

CMG..H

CMG002 H..



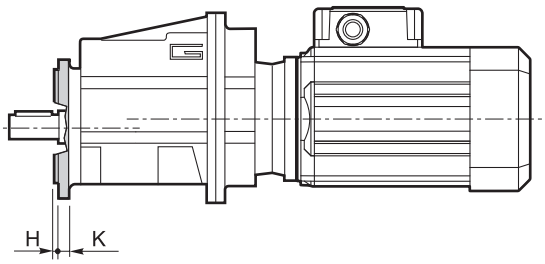


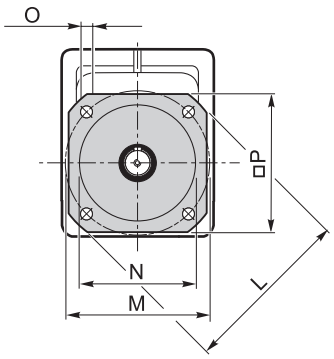
Versione **H** / ***H** Version*										
CMG	**P**	**Q**	**R**	**S**	**U**	**V**	**X**	**Z**	**Piede / *Foot***	
									Tipo / *Type*	Peso / *Weight* [kg]
002	**18**	**60**	**80**	**9**	**100**	**10**	**60**	**120**	**H60**	**0.2**
	18	80	104	9	110 - 120	10	75	145	H75	0.3
	18	50 - 87	110	9	110	10	85	135	H85	0.4

Preferenziale / *Preferred*

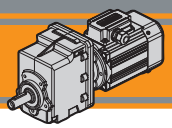
CMG..F

CMG002 F..





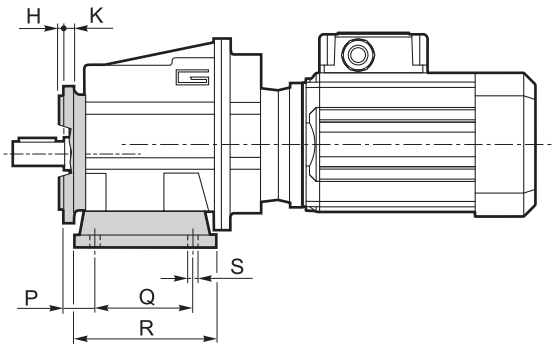
Versione **F** / ***F** Version*									
CMG	**H**	**K**	**L**	**M**	**N** f7	**O**	**P**	**Flangia / *Flange***	
								Tipo / *Type*	Peso / *Weight* [kg]
002	3.5	7	105	85	70	6.5	90	**F105**	0.1
	3.5	8	120	100	80	9	100	**F120**	0.2
	3.5	8	140	115	95	9	115	**F140**	0.2

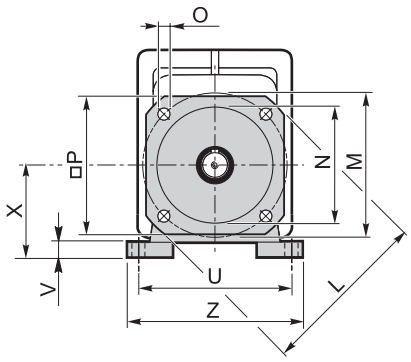


Dimensioni ***Dimensions***

CMG..H../F..

CMG002 H../F..





Versione **H** / ***H*** Version											Combinazioni possibili H/F *Possible combinations H/F*						
CMG	**P**	**Q**	**R**	**S**	**U**	**V**	**X**	**Z**	**Piede** / ***Foot*** Tipo *Type*	Peso / *Weight* [kg]	**F105**	**F120**	**F140**	**F160**	**F200**	**F250**	**F300**
002	**18**	**60**	**80**	**9**	**100**	**10**	**60**	**120**	**H60**	**0.2**	•	•	•				
	18	80	104	9	110 - 120	10	75	145	**H75**	0.3	•	•	•				
	18	50 - 87	110	9	110	10	85	135	**H85**	0.4	•	•	•				

Preferenziale / *Preferred*

• Combinazioni possibili H/F / *Possible combinations H/F*

Versione **F** / ***F*** *Version*									
CMG	**H**	**K**	**L**	**M**	**N** f7	**O**	**P**	**Flangia** / ***Flange*** Tipo / *Type*	Peso / *Weight* [kg]
002	3.5	7	105	85	70	6.5	90	**F105**	0.1
	3.5	8	120	100	80	7	100	**F120**	0.2
	3.5	8	140	115	95	9	115	**F140**	0.2

AC

Note/*Notes*

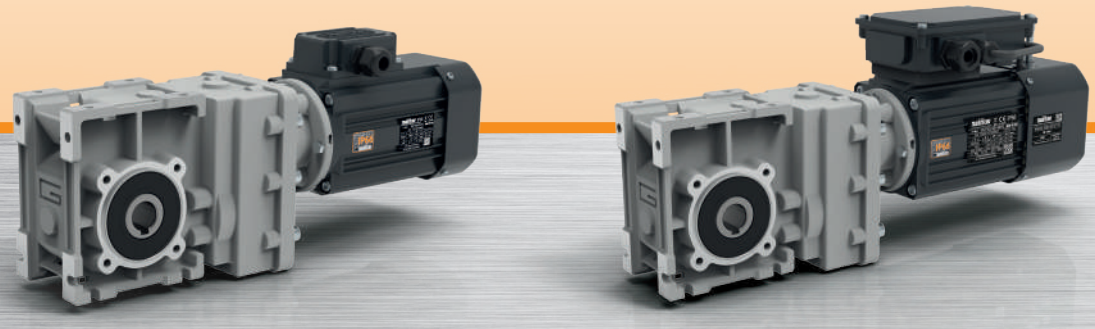
MINI TECNO™

small but strong

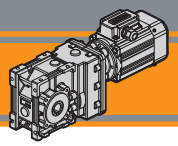
CMB

AC

Motoriduttori CA ad assi ortogonali
AC Helical bevel gearmotors



MINI TECNO™ brand of TRANSTECNO®



ENERGY SAVING

Caratteristiche tecniche

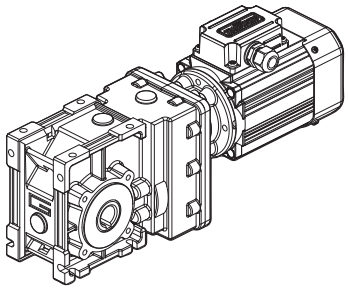
Le caratteristiche principali dei motoriduttori CMB sono:

- Costruzione compatta
- Motorizzazioni in corrente alternata monofase e trifase
- Carcassa motore estrusa in alluminio anodizzato nero
- Carcasse dei riduttori in pressofusione di alluminio
- Motore elettrico AC con grado di protezione IP66
- Lubrificazione permanente con olio sintetico
- Ingranaggi cilindrici a denti elicoidali, induriti e rettificati
- Disponibili sia nella versione ventilata TEFC (servizio S1) che non ventilata TENV (servizio S3)
- Protezione termica PTO 150°C per le taglie motore 56, 63 e 71.
- SMT56, SMT63 e SMT71 adatti al funzionamento con alimentazione da inverter
- Disponibili nelle versioni autofrenante, servoventilata e con certificazione UL.
- Disponibili con giunto elastico in entrata

Technical features

CMB gearmotor range has the following main features:

- *Compact design*
- *AC single phase and three phase motors available*
- *Motor extruded aluminum housing black anodized*
- *Gearbox die-cast aluminum housing*
- *AC electric motor in IP66 protection Standard*
- *Permanent synthetic oil long-life lubrication*
- *Ground-hardened helical gears*
- *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*
- *Brake motors, forced ventilation motors and UL compliance versions available.*
- *Available with input flexible couplin*



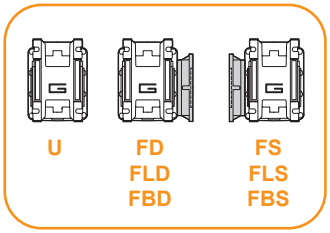
Designazione

Classification

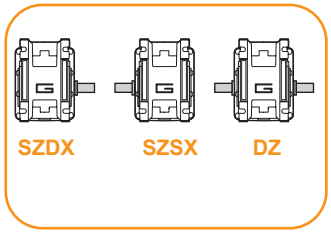
RIDUTTORE / *GEARBOX*

CMB	40	2	U	9.81	D20	63	B14	SZDX	BRSX	90	FX
Tipo *Type*	Grandezza *Size*	Stadi *Stages*	Versione *Version*	Rapporto *Ratio*	Albero cavo uscita *Hollow output shaft*	IEC	Forma costruttiva *Version*	Albero di uscita *Output shaft*	Braccio di reazione *Torque arm*	Angolo *Angle*	Giunto elastico *Flexible coupling*
CMB	40	2	U FD FS FBD FBS FLD FLS	vedi tabelle *see tables*	vedi tabelle *see tables*	56.. 63.. 71..	B14	SZDX SZSX DZ	BRDX BRSX (*)	0° 90° 180° 270°	FX I7

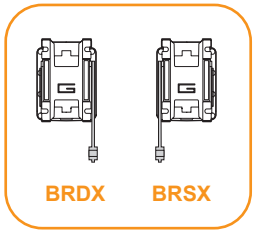
Versione Riduttore *Gearbox Version*



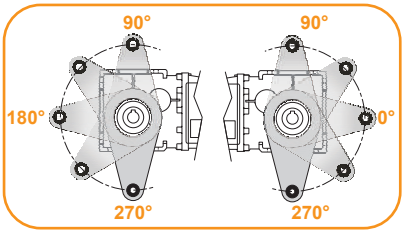
Albero di uscita *Output shaft*



Braccio di reazione (*) *Torque arm*



Angolo *Angle*



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

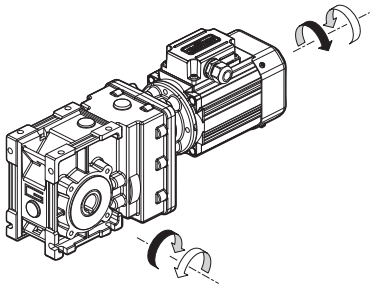
MOTORE TRIFASE / *THREE PHASE MOTOR*

SMT	63	2	4	0.18 kW	B14	230-400 V	50 Hz	TEFC	BR	T1
Tipo *Type*	Grandezza *Size*	Indicativo potenza *Power coefficient*	Poli *Poles*	Potenza *Power*	Forma costruttiva *Version*	Tensione *Voltage*	Frequenza *Frequency*	*Ventilazione Fan cooling*	*Opzioni Options*	Pos. Morsettiera *Terminal box pos.*
SMT	Vedere tab. *See tab.*	1-2-3-4-5	4	0.04 kW ... 0.75 kW	B14	230-400 V 460V	50Hz 60Hz	TEFC TENV	AB1 AC1 AD1	T1 (Std) T4 T2 T3

MOTORE MONOFASE / *SINGLE PHASE MOTOR*

SMM	63	2	4	0.18 kW	B14	230 V	50 Hz	TEFC	UL-CSA	T1
Tipo *Type*	Grandezza *Size*	Indicativo potenza *Power coefficient*	Poli *Poles*	Potenza *Power*	Forma costruttiva *Version*	Tensione *Voltage*	Frequenza *Frequency*	*Ventilazione Fan cooling*	*Opzioni Options*	Pos. Morsettiera *Terminal box pos.*
SMM	Vedere tab. *See tab.*	**1-2-3-4**	**4**	**0.04 kW** ... **0.55 kW**	**B14**	**230V**	**50Hz**	**TEFC** **TENV**	AD1	**T1** (Std) **T4** **T2** **T3**

Sensi di rotazione — *Direction of rotation*



Simbologia — *Symbols*

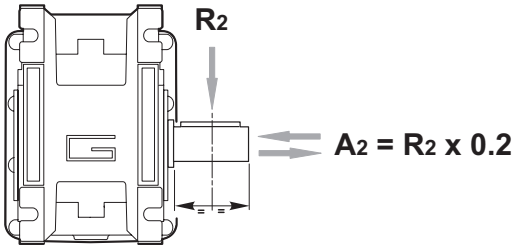
n_1	[min^{-1}]	Velocità in ingresso / *Input speed*	M_2	[Nm]	Coppia in uscita in funzione di P_1 / *Output torque referred to P_1*
n_2	[min^{-1}]	Velocità in uscita / *Output speed*	sf		Fattore di servizio / *Service factor*
i		Rapporto di riduzione / *Ratio*	A_2	N]	Carico assiale ammissibile in uscita / *Permitted output axial load*
P_1	[kW]	Potenza in entrata / *Input power*	R_2	[N]	Carico radiale ammissibile in uscita / *Permitted output radial load*

Lubrificazione — *Lubrication*

Tutti i riduttori nelle taglie 402 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 sizes 402 in all mounting positions; for this reason they can be installed in any assembly position and do not require maintenance.

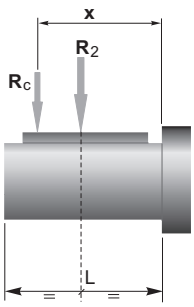
Carichi radiali — *Radial loads*



n_2 [min^{-1}]	R_2 [N]
	CMB 402
400	905
300	996
200	1141
170	1204
140	1414
100	1582
90	1638
60	2047
40	2524
30	2778
20	3180
15	3500
10	3500

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:



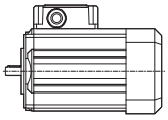
	CMB 402
a	86
b	66
R_{2MAX}	3500

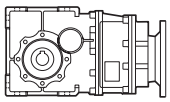
$$R_c = \frac{R_2 \cdot a}{(b+x)} \leq R_{2MAX}$$

$$R \leq R_c$$

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

Motori applicabili — *Motor adapters*





		SMT				SMM			
		5014 5024 5034 5044	5624 5634 5644 5654	6324 6334 6344	7124 7134 7144	5014 5024 5034	5624 5634 5644	6324 6334	7124 7134
CMB	402	6.18 - 72.50							

6.18 - 72.50 Rapporti di riduzione i
Ratio i

Dati tecnici — *Technical data*

0.04

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i	
SMT5014	**227**	2	25.3	6.18	**CMB402**
SMM5014	**187**	2	20.8	7.49	
(1400 min^{-1})	**152**	2	16.9	9.20	
SMT SMM	**118**	3	14.8	11.83	
	112	3	14.1	12.48	
	94	4	11.8	14.83	
	79	5	10.0	17.63	
	75	5	11.5	18.60	
	63	6	9.6	22.33	
	59	6	9.0	23.91	
	48	7	8.8	28.89	
	45	8	8.2	30.84	
	42	9	7.5	33.57	
	39	9	7.1	35.63	
	33	11	5.9	42.75	
	25	14	4.6	55.31	
	24	15	4.3	59.06	
	22	16	3.9	64.29	
	19	19	3.5	72.50	

0.06

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i	
SMT5024	**227**	2	16.8	6.18	**CMB402**
SMM5024	**187**	3	13.9	7.49	
(1400 min^{-1})	**152**	4	11.3	9.20	
SMT SMM	**118**	5	9.9	11.83	
	112	5	9.4	12.48	
	94	6	7.9	14.83	
	79	7	6.6	17.63	
	75	7	7.7	18.60	
	63	9	6.4	22.33	
	59	9	6.0	23.91	
	48	11	5.8	28.89	
	45	12	5.5	30.84	

0.06

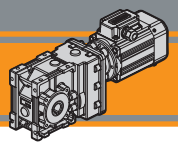
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i	
SMT5024	**42**	13	5.0	33.57	
SMM5024	**39**	14	4.7	35.63	
(1400 min^{-1})	**33**	16	4.0	42.75	
SMT SMM	**25**	21	3.1	55.31	
	24	23	2.9	59.06	
	22	25	2.6	64.29	
	19	28	2.3	72.50	

0.09

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i	
SMT5034	**227**	4	11.2	6.18	**CMB402**
SMM5034	**187**	4	9.3	7.49	
SMT5624	**152**	5	7.5	9.20	
SMM5624	**118**	7	6.6	11.83	
(1400 min^{-1})	**112**	7	6.2	12.48	
SMT SMM	**94**	9	5.3	14.83	
	79	10	4.4	17.63	
	75	11	5.1	18.60	
	63	13	4.3	22.33	
	59	14	4.0	23.91	
	48	17	3.9	28.89	
	45	18	3.7	30.84	
	42	19	3.4	33.57	
	39	21	3.2	35.63	
	33	25	2.6	42.75	
	25	32	2.0	55.31	
	24	34	1.9	59.06	
	22	37	1.8	64.29	
	19	42	1.6	72.50	

IEC

Motori *Motors*	SMT		SMM	
	5014 5024 5034	5624	5014 5024 5034	5624
IEC	56 B14		56 B14	



Dati tecnici — *Technical data*

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i	
0.12					
SMT5044	**227**	5	8.4	6.18	**CMB402**
SMT5634	**187**	6	6.9	7.49	
SMM5634	**152**	7	5.6	9.20	
(1400 min^{-1})	**118**	9	4.9	11.83	
SMT SMM	**112**	10	4.7	12.48	
	94	11	3.9	14.83	
	79	14	3.3	17.63	
	75	14	3.8	18.60	
	63	17	3.2	22.33	
	59	18	3.0	23.91	
	48	22	2.9	28.89	
	45	24	2.7	30.84	
	42	26	2.5	33.57	
	39	27	2.4	35.63	
	33	33	2.0	42.75	
	25	43	1.5	55.31	
	24	45	1.4	59.06	
	22	49	1.3	64.29	
	19	56	1.2	72.50	
0.18					
SMT5644	**227**	7	5.6	6.18	**CMB402**
SMM5644	**187**	9	4.6	7.49	
SMT6324	**152**	11	3.8	9.20	
SMM6324	**118**	14	3.3	11.83	
(1400 min^{-1})	**112**	14	3.1	12.48	
SMT SMM	**94**	17	2.6	14.83	
	79	20	2.2	17.63	
	75	21	2.6	18.60	
	63	26	2.1	22.33	
	59	28	2.0	23.91	
	48	33	1.9	28.89	
	45	36	1.8	30.84	
	42	39	1.7	33.57	
	39	41	1.6	35.63	
	33	49	1.3	42.75	
	25	64	1.0	55.31	
	24	68	0.95	59.06	
	22	74	0.88	64.29	
	19	84	0.8	72.50	

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i	
0.25					
SMT5654	**227**	10	4.0	6.18	**CMB402**
SMT6334	**187**	12	3.3	7.49	
SMM6334	**152**	15	2.7	9.20	
(1400 min^{-1})	**118**	19	2.4	11.83	
SMT SMM	**112**	20	2.2	12.48	
	94	24	1.9	14.83	
	79	28	1.6	17.63	
	75	30	1.8	18.60	
	63	36	1.5	22.33	
	59	38	1.4	23.91	
	48	46	1.4	28.89	
	45	49	1.3	30.84	
	42	54	1.2	33.57	
	39	57	1.1	35.63	
	33	69	0.9	42.75	
0.37					
SMT6344	**227**	15	2.7	6.18	**CMB402**
SMT7124	**187**	18	2.3	7.49	
SMM7124	**152**	22	1.8	9.20	
(1400 min^{-1})	**118**	28	1.6	11.83	
SMT SMM	**112**	30	1.5	12.48	
	94	35	1.3	14.83	
	79	42	1.1	17.63	
	75	44	1.2	18.60	
	63	53	1.0	22.33	
	59	57	1.0	23.91	
	48	69	0.9	28.89	
	45	73	0.9	30.84	
	42	80	0.8	33.57	
0.55					
SMT7134	**227**	22	1.8	6.18	**CMB402**
SMM7134	**187**	26	1.5	7.49	
(1400 min^{-1})	**152**	32	1.2	9.20	
SMT SMM	**118**	42	1.1	11.83	
	112	44	1.0	12.48	
	94	52	0.9	14.83	
0.75					
SMT7144	**227**	30	1.3	6.18	**CMB402**
(1400 min^{-1})	**187**	36	1.1	7.49	
SMT SMM	**152**	44	0.9	9.20	

IEC

Motori *Motors*	SMT				SMM		
	5044	5634 5644 5654	6324 6334 6344	7124 7134 7144	5644	6324 6334	7124 7134
IEC	56 B14		63 B14	71 B14	56 B14	63 B14	71 B14

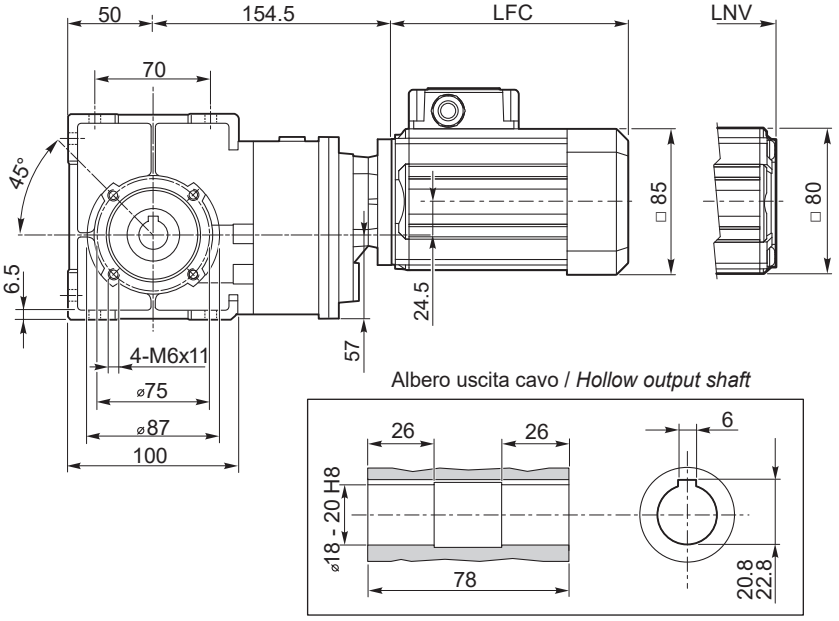
Dati tecnici elettrici — *Electrical technical data*

SMT SMM → AA3

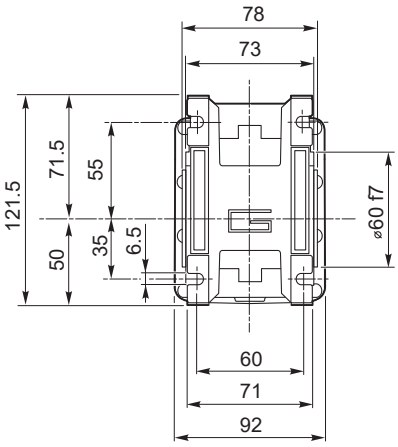
Dimensioni — *Dimensions*

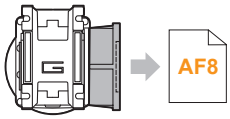
CMB 402 U

SMT50...TEFC **SMT50...TENV**
SMM50... TEFC **SMM50... TENV**
S3 servizio *duty* **30%**



Albero uscita cavo / *Hollow output shaft*





SMT	LFC	LNV	Kg
5014	135.5	108.5	5.7
5024	150.5	123.5	6.1
5034	175.5	148.5	6.9
5044	200.5	173.5	7.6

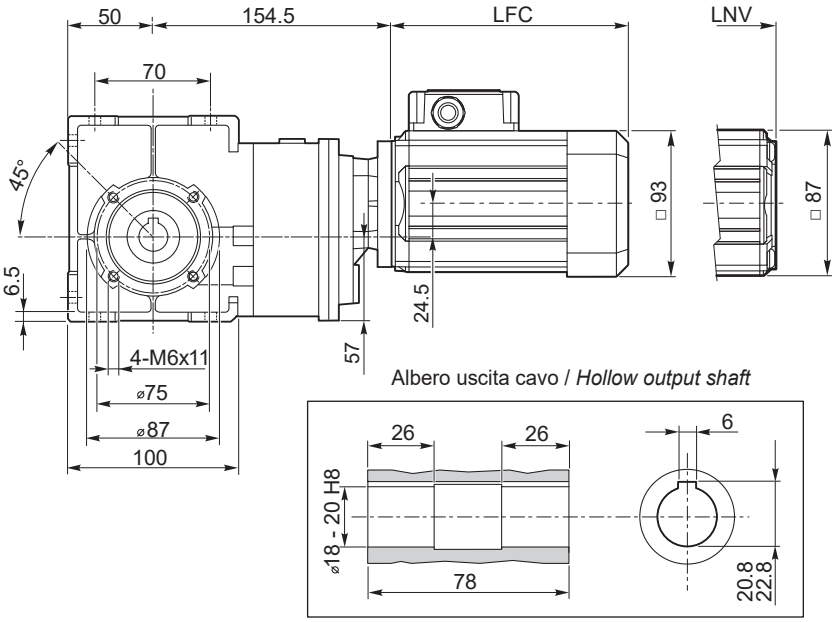
SMM	LFC	LNV	Kg
5014	150.5	123.5	6.1
5024	175.5	148.5	6.9
5034	200.5	173.5	7.6

Nota:
il condensatore sarà fornito a corredo

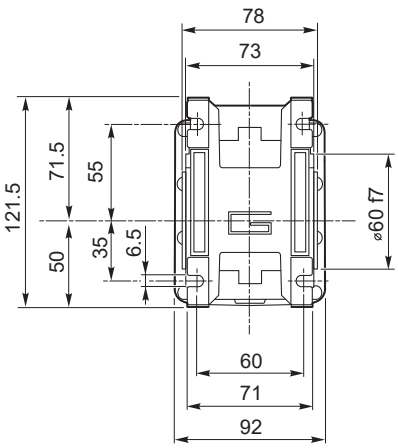
Note:
the capacitor will be supplied separately

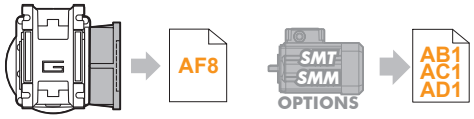
CMB 402 U

SMT56...TEFC **SMT56...TENV**
SMM56... TEFC **SMM56... TENV**
S3 servizio *duty* **30%**



Albero uscita cavo / *Hollow output shaft*





SMT	LFC	LNV	Kg
5624	141	117	6.2
5634	151	127	6.6
5644	186	162	7.8
5654	206	182	8.5

SMM	LFC	LNV	Kg
5624	151	127	6.5
5634	171	147	7.1
5644	206	182	8.4

Nota:
il condensatore sarà fornito a corredo

Note:
the capacitor will be supplied separately

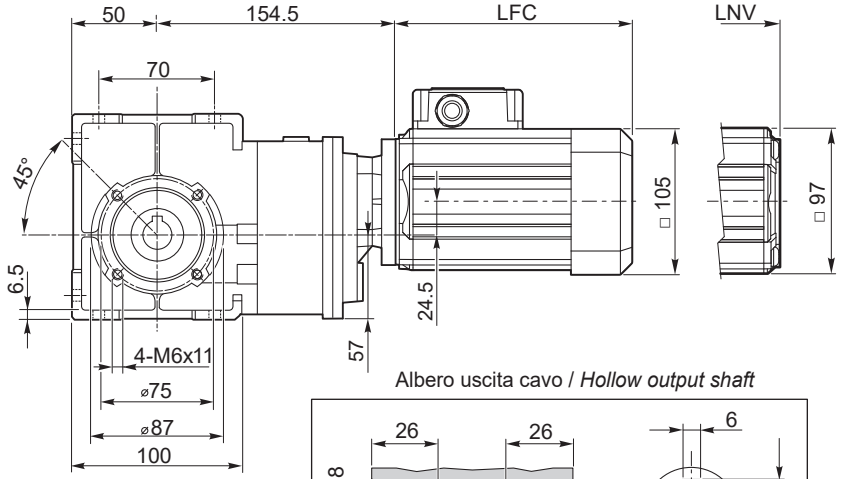
Dimensioni | ***Dimensions***

CMB 402 U

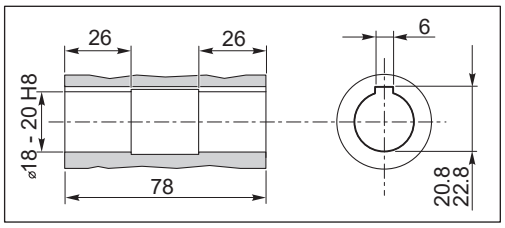
SMT63...TEFC
SMM63... TEFC

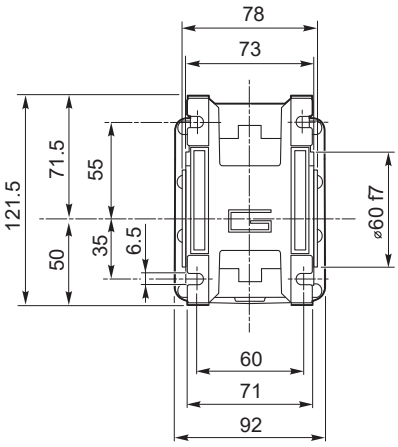
SMT63...TENV
SMM63... TENV

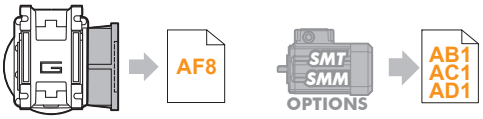
S3 servizio *duty* **30%**



Albero uscita cavo / *Hollow output shaft*







SMT	LFC	LNV	Kg
6324	165.5	138.5	7.7
6334	180.5	153.5	8.4
6344	205.5	178.5	9.6

SMM	LFC	LNV	Kg
6324	180.5	153.5	8.5
6334	205.5	178.5	9.7

Nota:
il condensatore sarà fornito a corredo

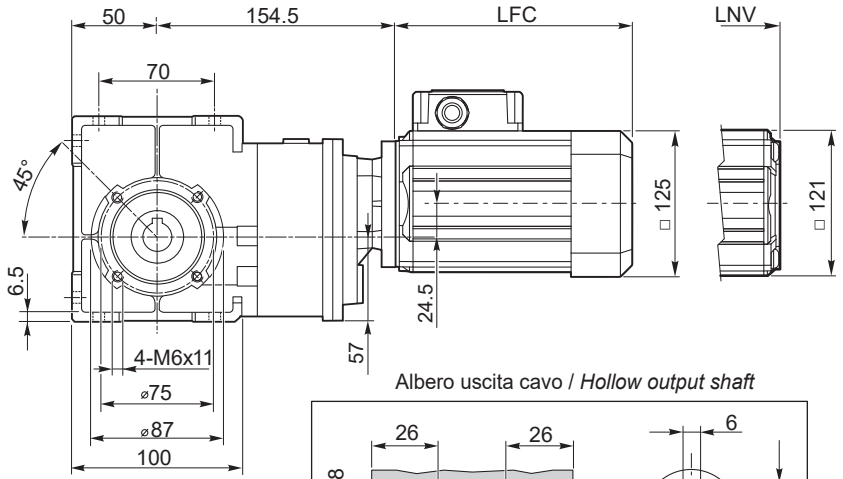
Note:
the capacitor will be supplied separately

CMB 402 U

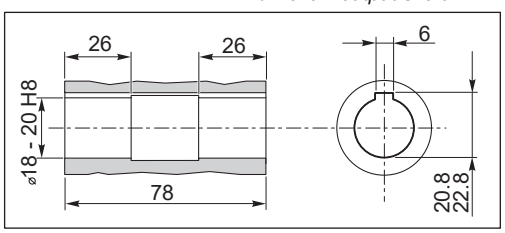
SMT71...TEFC
SMM71... TEFC

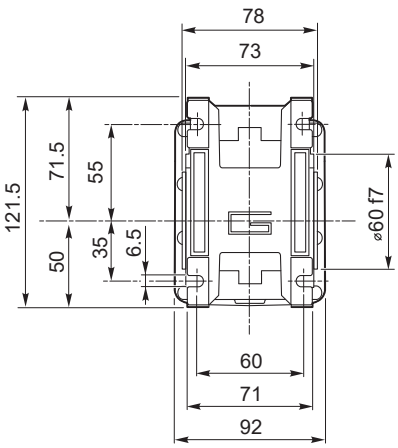
SMT71...TENV
SMM71... TENV

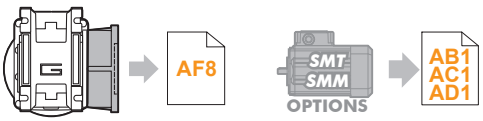
S3 servizio *duty* **30%**



Albero uscita cavo / *Hollow output shaft*







SMT	LFC	LNV	Kg
7124	174	145.5	9.9
7134	189	160.5	11
7144	214	185.5	12.7

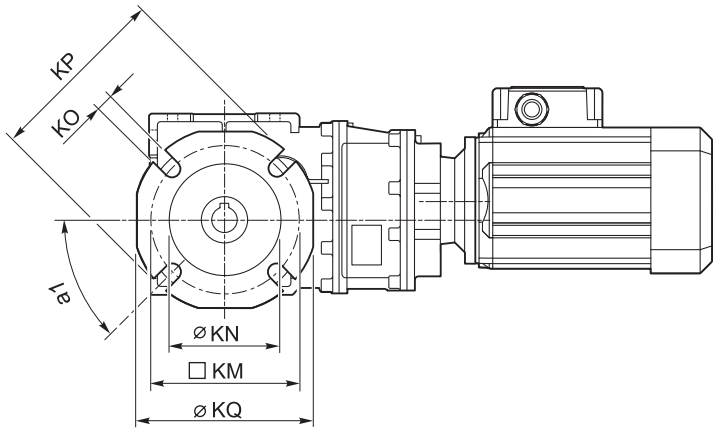
SMM	LFC	LNV	Kg
7124	189	160.5	10.6
7134	214	185.5	12.6

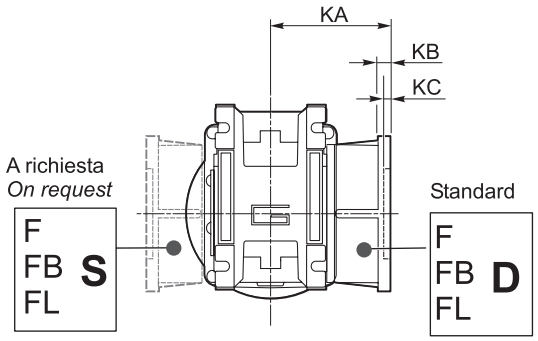
Nota:
il condensatore sarà fornito a corredo

Note:
the capacitor will be supplied separately

AC

CMB402/ F... Flange uscita / *Output flanges*

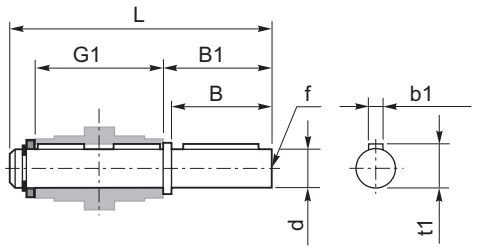




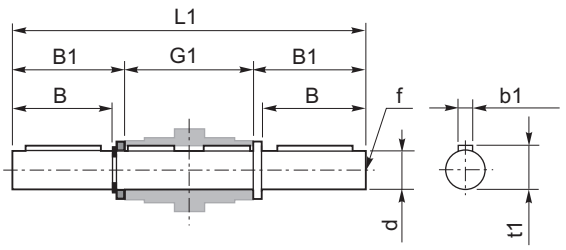
	Flange uscita / *Output flanges*																									
	F									FL										FB								
CMB	a_1	KA	KB	KC	KM	KN H8	KO	KP	KQ	a_1	KA	KB	KC	KM	KN H8	KO	KP	KQ	a_1	KA	KB	KC	KM	KN H8	KO	KP	KQ
402	45°	67	7.5	4.5	80-95	60	9	110	95	45°	97	7.5	4.5	80-95	60	9	110	95	45°	80	8.5	5	115-125	95	9.5	140	112

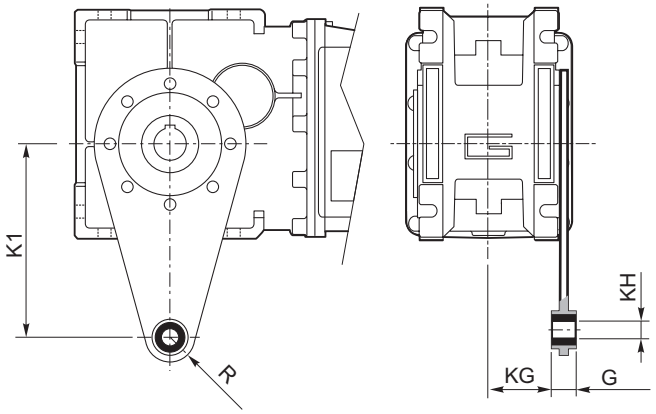
Accessori *Accessories*

SZ



DZ





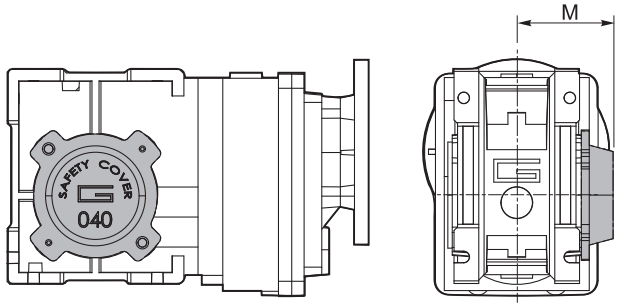
Albero lento / *Output shaft*

CMB	d h7	B	B1	G1	L	L1	f	b1	t1
402	18	40	43	78	128	164	M6	6	20.5

Braccio di reazione / *Torque arm*

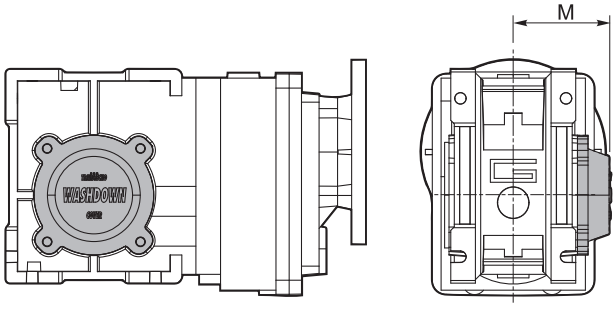
CMB	K1	G	KG	KH	R
402	100	14	31	10	18

SC - *Safety cover*



CMB	M
402	54.5

WD - *Kit washdown cover*



CMB	M
402	55.5

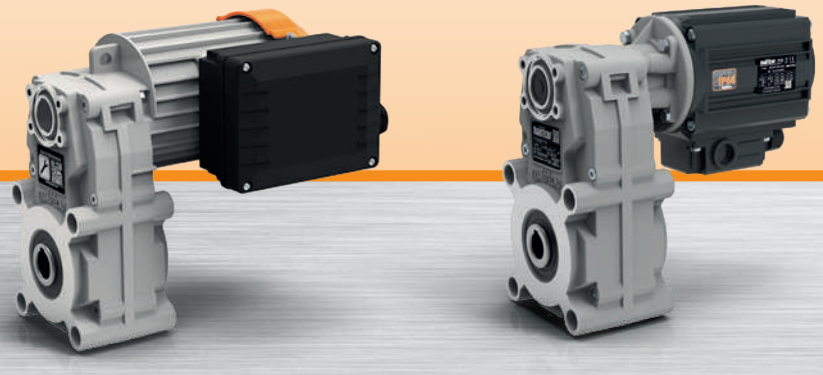
MINI TECNO™

small but strong

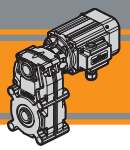
KFT105 - FT

AC

Motoriduttori CA pendolari
AC Helical parallel gearmotors



MINI TECNO™ brand of TRANSTECNO®



ENERGY SAVING

Caratteristiche tecniche

Le caratteristiche principali dei motoriduttori KFT e FT sono:

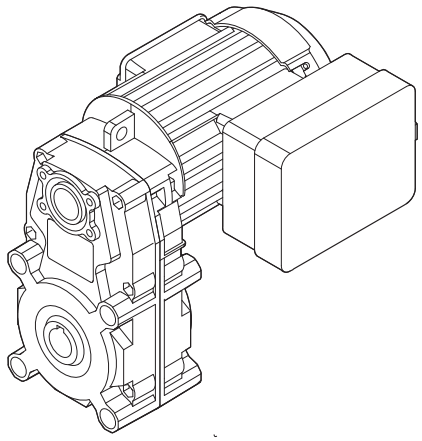
- Costruzione compatta
- Motorizzazioni in corrente alternata monofase e trifase
- Carcassa motore SMT e SMM estrusa in alluminio anodizzato nero
- Carcasse dei riduttori in pressofusione di alluminio
- Motore elettrico SMT e SMM con grado di protezione IP66
- Lubrificazione permanente con olio sintetico
- Ingranaggi cilindrici a denti elicoidali, induriti e rettificati
- Disponibili sia nella versione ventilata TEFC (servizio S1) che non ventilata TENV (servizio S3)
- Protezione termica PTO 150°C per la taglia motore 56.
- SMT56 adatto al funzionamento con alimentazione da inverter
- SMT e SMM Disponibili nelle versioni autofrenante, servoventilata e con certificazione UL.
- Versione KFT105 con motore monofase integrato

Technical features

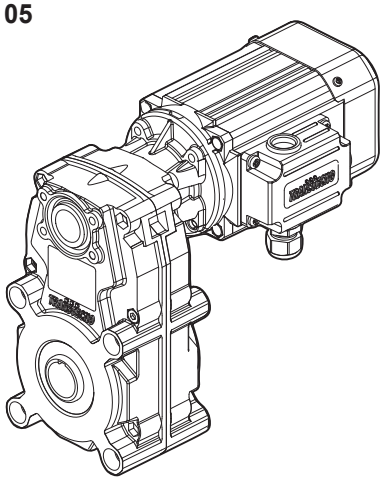
KFT and FT gearmotor range has the following main features:

- *Compact design*
- *AC single phase and three phase motors available*
- *SMT and SMM motors extruded aluminum housing black anodized*
- *Gearbox die-cast aluminum housing*
- *SMT and SMM electric motors in IP66 protection Standard*
- *Permanent synthetic oil long-life lubrication*
- *Ground-hardened helical gears*
- *Fan cooled TEFC (duty S1) and not ventilated TENV (duty S3) versions available*
- *PTO 150°C thermal protection for motor size 56.*
- *SMT56 is suitable for inverter duty*
- *Brake motors, forced ventilation motors and UL compliance versions available for SMT and SMM motors.*
- *KFT105 version with integrated single motor phase*

KFT105



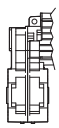
FT105



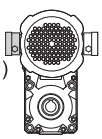
Designazione

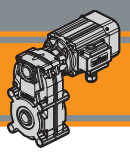
Classification

RIDUTTORE / *GEARBOX*

KFT	105/3	U	88.87	O20
Tipo *Type*	Grandezza *Size*	Versione *Version*	Rapporto *Ratio*	Albero cavo uscita *Hollow output shaft*
KFT 	**105/3** **105/4**	**U...** **F...**	vedi tabelle *see tables*	vedi tabelle *see tables*

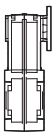
MOTORE / *MOTOR*

40W	4p	3ph	230/400V	50Hz	T1	TEFC
Potenza *Power*	Poli *Poles*	Fasi *Phases*	Tensione *Voltage*	Frequenza *Frequency*	Pos. morsettiera *Terminal box pos.*	Ventilazione *Fan cooling*
vedi tabelle *see tables*	**4p**	**1ph** **3ph**	**230V** **...** **230/400V** **...**	**50Hz** **60Hz**	**T4** (Std)  **T2**	**TEFC** **TENV**

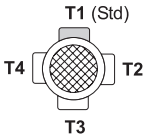


Designazione — *Classification*

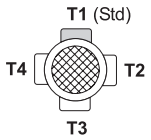
RIDUTTORE / *GEARBOX*

FT	105/3	U	77.07	O20	56	B14
Tipo *Type*	Grandezza *Size*	Versione *Version*	Rapporto *Ratio*	Albero cavo uscita *Hollow output shaft*	IEC	Forma costruttiva *Version*
FT 	**105/3** **105/4**	**U...**	vedi tabelle *see tables*	vedi tabelle *see tables*	**56**	**B14**

MOTORE TRIFASE / *THREE PHASE MOTOR*

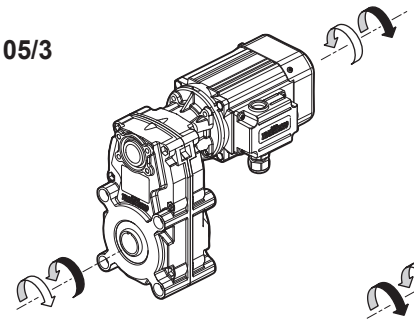
SMT	56	4	4	0.18 kW	B14	230-400 V	50 Hz	TEFC	BR	T1
Tipo *Type*	Grandezza *Size*	Indicativo potenza *Power coefficient*	Poli *Poles*	Potenza *Power*	Forma costruttiva *Version*	Tensione *Voltage*	Frequenza *Frequency*	*Ventilazione Fan cooling*	*Opzioni Options*	Pos. Morsettiera *Terminal box pos.*
SMT 	Vedere tab. *See tab.*	**1-2-3-4-5**	**4**	**0.04 kW** ... **0.25 kW**	**B14**	**230-400 V** **460V**	**50Hz** **60Hz**	**TEFC** **TENV**		

MOTORE MONOFASE / *SINGLE PHASE MOTOR*

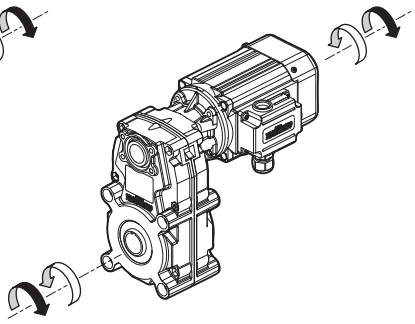
SMM	56	4	4	0.18 kW	B14	230 V	50 Hz	TEFC	UL-CSA	T1
Tipo *Type*	Grandezza *Size*	Indicativo potenza *Power coefficient*	Poli *Poles*	Potenza *Power*	Forma costruttiva *Version*	Tensione *Voltage*	Frequenza *Frequency*	*Ventilazione Fan cooling*	*Opzioni Options*	Pos. Morsettiera *Terminal box pos.*
SMM 	Vedere tab. *See tab.*	**1-2-3-4**	**4**	**0.04 kW** ... **0.18 kW**	**B14**	**230V**	**50Hz**	**TEFC** **TENV**		

Sensi di rotazione — *Direction of rotation*

FT 105/3



FT 105/4



Simbologia — *Symbols*

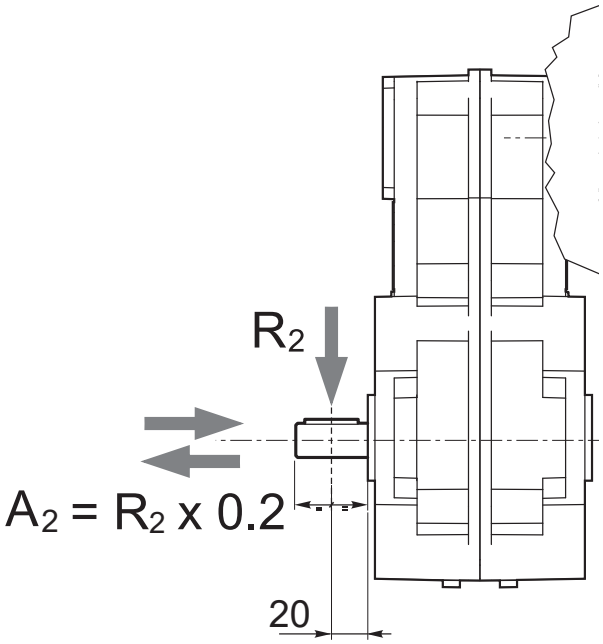
n_1	[min^{-1}]	Velocità in ingresso / *Input speed*
n_2	[min^{-1}]	Velocità in uscita / *Output speed*
i		Rapporto di riduzione / *Ratio*
P_1	[kW]	Potenza in entrata / *Input power*
M_2	[Nm]	Coppia nominale in uscita in funzione di P_1 / *Output torque referred to* P_1
Pn_1	[kW]	Potenza nominale in entrata / *Nominal input power*
Mn_2	[Nm]	Coppia nominale in uscita in funzione di Pn_1 / *Nominal output torque referred to* Pn_1
sf		Fattore di servizio / *Service factor*
R_2	[N]	Carico radiale ammissibile in uscita / *Permitted output radial load*
A_2	[N]	Carico assiale ammissibile in uscita / *Permitted output axial load*

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.

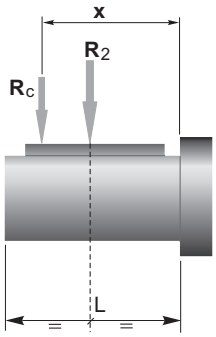
Carichi radiali — *Radial loads*



n_2 [min^{-1}]	R_2 [N]
	KFT105 FT105
70	1500
40	1700
30	1850
20	2000
10	2000
5	2000

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:



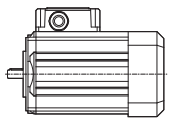
	KFT105 FT105
a	82
b	62
R_{2MAX}	2000

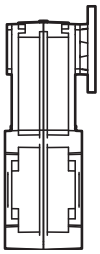
$$R_c = \frac{R_2 \cdot a}{(b+x)} \leq R_{2MAX}$$

$$R \leq R_c$$

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

Motori applicabili — *IEC Motor adapters*

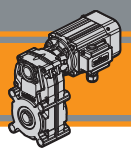




		SMT		SMM	
		5014 5024 5034 5044	5624 5634 5644 5654	5014 5024 5034	5624 5634 5644
FT	105/3	20.57 - 315.05			
FT	105/4	368.19 - 929.4			

20.57 - 929.4

Rapporti di riduzione i
Ratio i



Dati tecnici

Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	M_n [Nm]	i	
0.025						
	68	3	12.1	40	20.57	**KFT105/3**
	42	5	9.4	50	33.32	
	32	7	9.1	65	44.36	
	26	9	7.4	65	54.87	
	19	12	5.6	65	71.84	
	18	12	5.3	65	77.07	
	16	14	4.6	65	88.87	
	11	20	3.2	65	124.81	
	7.7	29	2.2	65	181.35	
	6.2	36	1.8	65	224.32	
	4.4	51	1.3	65	315.05	
	3.8	58	1.1	65	368.19	**KFT105/4**
	2.6	84	0.8	65	534.98	
	2.1	104	0.6	65	661.76	
	1.5	120	0.5	65	929.40	
0.04						
	68	5	7.6	40	20.57	**KFT105/3**
	42	9	5.9	50	33.32	
	32	11	5.7	65	44.36	
	26	14	4.6	65	54.87	
	19	18	3.5	65	71.84	
	18	20	3.3	65	77.07	
	16	23	2.9	65	88.87	
	11	32	2.0	65	124.81	
	7.7	47	1.4	65	181.35	
	6.2	58	1.1	65	224.32	
	4.4	81	0.8	65	315.05	
	3.8	92	0.7	65	368.19	**KFT105/4**
	2.6	120	0.5	65	534.98	
	2.1	120	0.5	65	661.76	
0.06						
	68	8	5.1	40	20.57	**KFT105/3**
	42	13	3.9	50	33.32	
	32	17	3.8	65	44.36	
	26	21	3.1	65	54.87	
	19	28	2.4	65	71.84	
	18	30	2.2	65	77.07	
	16	34	1.9	65	88.87	
	11	48	1.4	65	124.81	
	7.7	70	0.9	65	181.35	
	6.2	86	0.8	65	224.32	
	4.4	110	0.6	65	315.05	
	3.8	120	0.5	65	368.19	**KFT105/4**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	M_n [Nm]	i	
0.09						
	68	12	3.4	40	20.57	**KFT105/3**
	42	19	2.6	50	33.32	
	32	26	2.5	65	44.36	
	26	32	2.1	65	54.87	
	19	41	1.6	65	71.84	
	18	44	1.5	65	77.07	
	16	51	1.3	65	88.87	
	11	72	0.9	65	124.81	
	7.7	105	0.6	65	181.35	
	6.2	110	0.6	65	224.32	
0.12						
	68	16	2.5	40	20.57	**KFT105/3**
	42	26	2.0	50	33.32	
	32	34	1.9	65	44.36	
	26	42	1.5	65	54.87	
	19	55	1.2	65	71.84	
	18	59	1.1	65	77.07	
	16	68	1.0	65	88.87	
	11	96	0.7	65	124.81	
	7.7	110	0.6	65	181.35	

N.B.
Verificare sempre che la coppia M2 utilizzata non ecceda il valore indicato nelle caselle in grigio

N.B.
Please check that the output torque M2 does not exceed the value in the grey areas

Dati tecnici — *Technical data*

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i	
0.04					
SMT5014	**68**	5	7.6	20.57	**FT105/3**
SMM5014	**42**	9	5.9	33.32	
(1400 min^{-1})	**32**	11	5.7	44.36	
SMT SMM	**26**	14	4.6	54.87	
	19	18	3.5	71.84	
	18	20	3.3	77.07	
	16	23	2.9	88.87	
	11	32	2.0	124.81	
	7.7	47	1.4	181.35	
	6.2	58	1.1	224.32	
	4.4	81	0.8	315.05	
	3.8	92	0.7	368.19	**FT105/4**
	2.6	120	0.5	534.98	
	2.1	120	0.5	661.76	
0.06					
SMT5024	**68**	8	5.1	20.57	**FT105/3**
SMM5024	**42**	13	3.9	33.32	
(1400 min^{-1})	**32**	17	3.8	44.36	
SMT SMM	**26**	21	3.1	54.87	
	19	28	2.4	71.84	
	18	30	2.2	77.07	
	16	34	1.9	88.87	
	11	48	1.4	124.81	
	7.7	70	0.9	181.35	
	6.2	86	0.8	224.32	
	4.4	92	0.7	315.05	
0.09					
SMT5034	**68**	12	3.4	20.57	**FT105/3**
SMM5034	**42**	19	2.6	33.32	
SMT5624	**32**	26	2.5	44.36	
SMM5624	**26**	32	2.1	54.87	
(1400 min^{-1})	**19**	41	1.6	71.84	
SMT SMM	**18**	44	1.5	77.07	
	16	51	1.3	88.87	
	11	72	0.9	124.81	
	7.7	105	0.6	181.35	
	6.2	110	0.6	224.32	

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i	
0.12					
SMT5044	**68**	16	2.5	20.57	**FT105/3**
SMT5634	**42**	26	2.0	33.32	
SMM5624	**32**	34	1.9	44.36	
(1400 min^{-1})	**26**	42	1.5	54.87	
SMT SMM	**19**	55	1.2	71.84	
	18	59	1.1	77.07	
	16	68	1.0	88.87	
	11	96	0.7	124.81	
	7.7	110	0.6	181.35	
0.18					
SMT5644	**68**	24	1.7	20.57	**FT105/3**
SMM5644	**42**	38	1.3	33.32	
(1400 min^{-1})	**32**	51	1.3	44.36	
SMT SMM	**26**	63	1.0	54.87	
	19	83	0.8	71.84	
	18	89	0.7	77.07	
	16	92	0.7	88.87	
	11	110	0.6	124.81	
0.25					
SMT5654	**68**	33	1.2	20.57	**FT105/3**
(1400 min^{-1})	**42**	53	0.9	33.32	
SMT SMM	**32**	71	0.9	44.36	

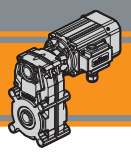
N.B.
Verificare sempre che la coppia M2 utilizzata non ecceda il valore indicato nelle caselle in grigio

N.B.
Please check that the output torque M2 does not exceed the value in the grey areas

Motori *Motors*	SMT		SMM	
	5014 5024 5034 5044	**5624 5634 5644 5654**	**5014 5024 5034**	**5624 5634 5644**
IEC	**56 B14**		**56 B14**	

Dati tecnici elettrici — *Electrical technical data*

SMT SMM → AA3



Dati tecnici elettrici - KFT 105

KFT 105 - Electrical technical data

	P_n [W]	V [V]	F [Hz]	I_n [A]	I_s [A]	cosØ	C [µF]	TEFC Servizio *Duty*	TENV Servizio *Duty*
1 Ph	25	230	50	0.42	0.84	0.87	6.0	S1 100%	S3 30%
	40			0.47	0.86	0.91	6.3		
	60			0.74	1.50	0.82	8.0		
	90			0.82	1.60	0.93	12.5		
	120			1.38	3.10	0.81	14.0		

	P_n [W]	V [V]	F [Hz]	I_n [A]	I_s [A]	cosØ	TEFC Servizio *Duty*	TENV Servizio *Duty*
3 Ph	25	230	50	0.41	0.97	0.54	S1 100%	S3 30%
		400		0.24	0.56	0.54		
	40	230	50	0.43	0.97	0.62		
		400		0.25	0.56	0.62		
	60	230	50	0.72	1.80	0.48		
		400		0.42	1.04	0.48		
	90	230	50	0.74	1.80	0.60		
		400		0.44	1.04	0.60		
	120	230	50	1.34	3.70	0.50		
		400		0.87	2.13	0.50		

Nota:
Classe di rendimento Standard IE1

Note:
Standard efficiency IE1

Normative di riferimento

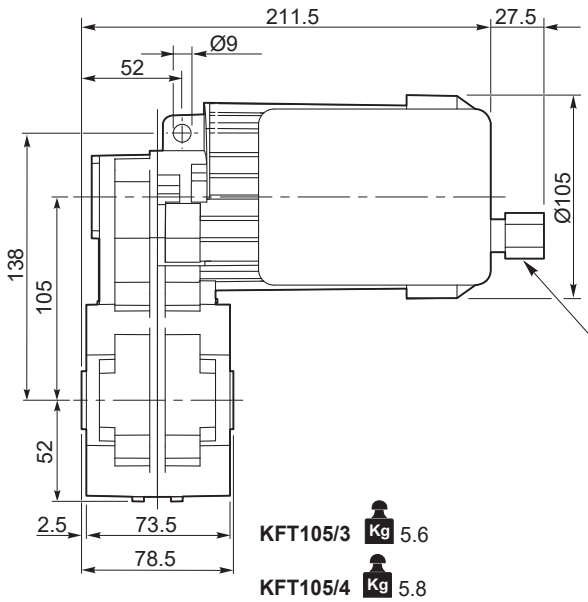
Reference standards

	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*

Dimensioni *Dimensions*

KFT 105... 25W - 40W - 60W - 90W

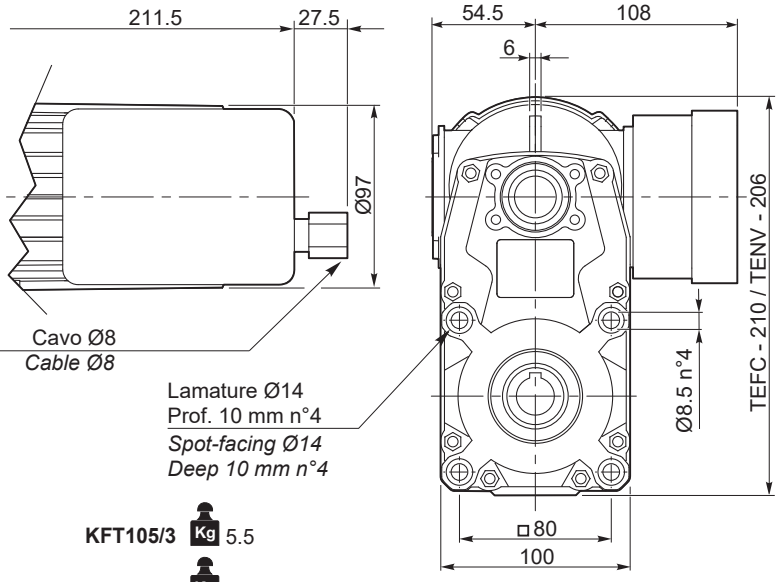
KFT 105...1 Ph...TEFC



KFT105/3 Kg 5.6

KFT105/4 Kg 5.8

KFT 105...1 Ph...TENV S3 servizio duty 30%

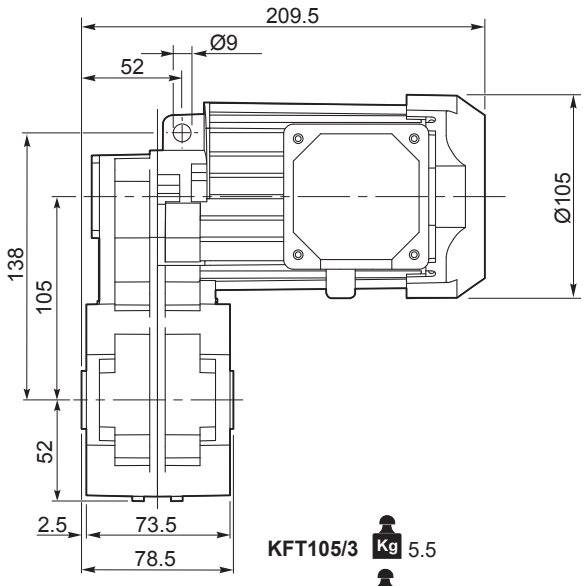


KFT105/3 Kg 5.5

KFT105/4 Kg 5.7

NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

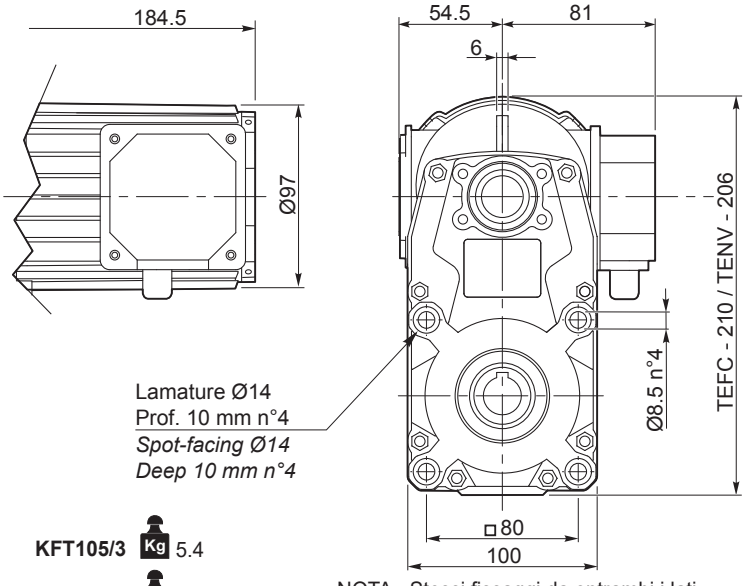
KFT 105...3 Ph... TEFC



KFT105/3 Kg 5.5

KFT105/4 Kg 5.7

KFT 105...3 Ph... TENV S3 servizio duty 30%



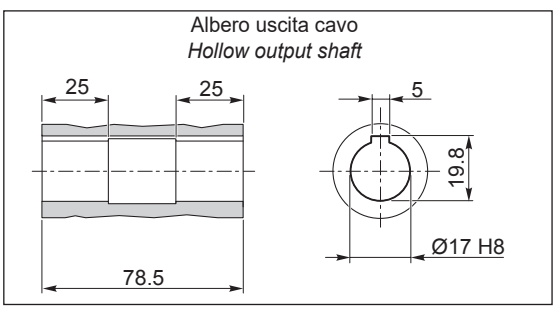
KFT105/3 Kg 5.4

KFT105/4 Kg 5.6

NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

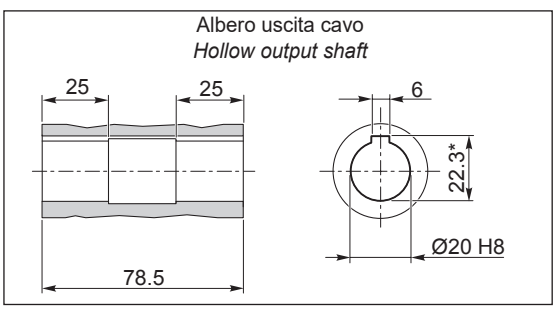
Ø17

Albero uscita cavo
Hollow output shaft

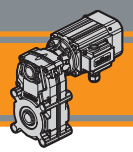


Ø20

Albero uscita cavo
Hollow output shaft

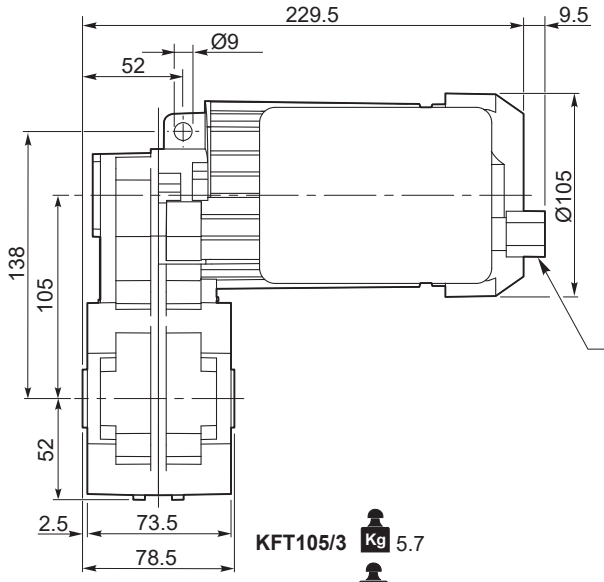


*Sede linguetta ribassata / *Special Keyway*



KFT 105... 120W

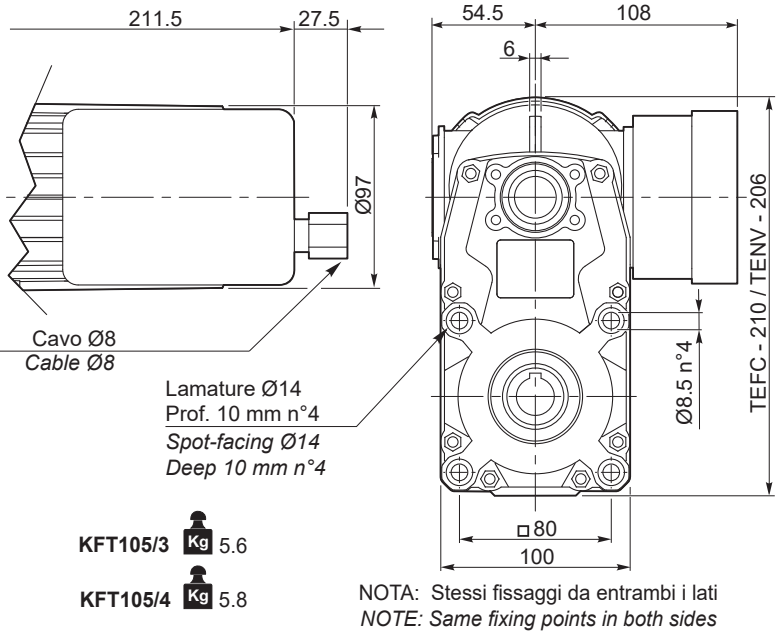
KFT 105...1 Ph... TEFC



KFT105/3 Kg 5.7

KFT105/4 Kg 5.9

KFT 105...1 Ph...TENV S3 servizio *duty* 30%

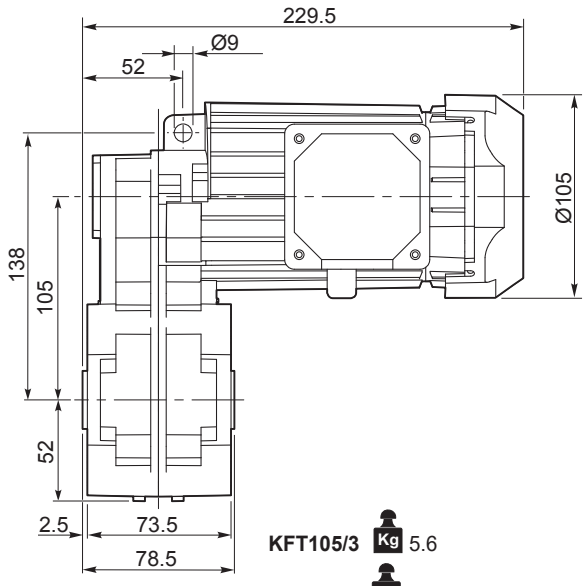


KFT105/3 Kg 5.6

KFT105/4 Kg 5.8

NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

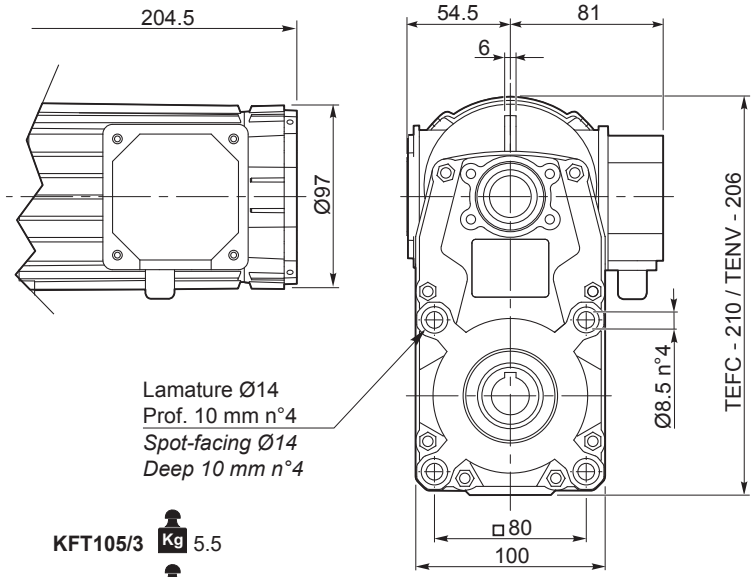
KFT 105...3 Ph... TEFC



KFT105/3 Kg 5.6

KFT105/4 Kg 5.8

KFT 105...3 Ph... TENV S3 servizio *duty* 30%



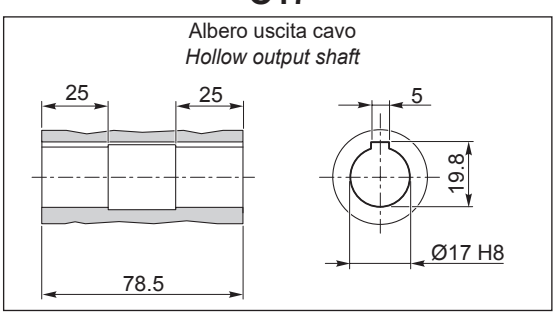
KFT105/3 Kg 5.5

KFT105/4 Kg 5.7

NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

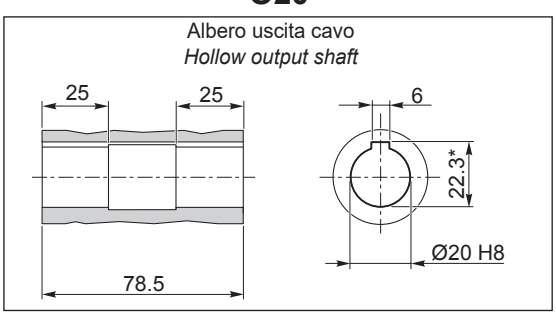
Ø17

Albero uscita cavo
Hollow output shaft



Ø20

Albero uscita cavo
Hollow output shaft



*Sede linguetta ribassata/ *Special Keyway*

Dimensioni — *Dimensions*

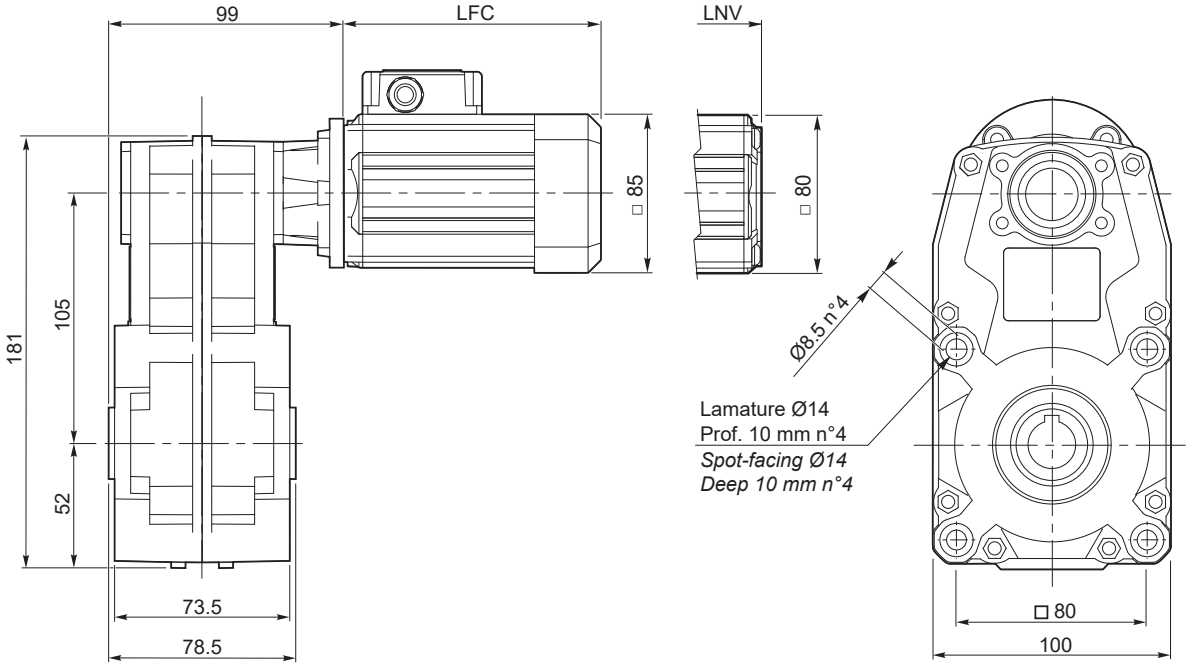
FT105 U

FT 105...U

SMT50...TEFC
SMM50... TEFC

SMT50...TENV
SMM50... TENV

S3 servizio *duty* **30%**



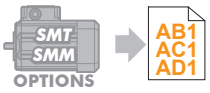
NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

SMT	LFC	LNV	Kg
5014	135.5	108.5	6.5
5024	150.5	123.5	6.9
5034	175.5	148.5	7.7
5044	200.5	173.5	8.4

SMM	LFC	LNV	Kg
5014	150.5	123.5	6.9
5024	175.5	148.5	7.7
5034	200.5	173.5	8.4

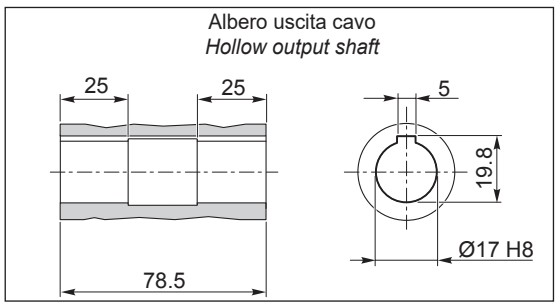
Nota:
il condensatore sarà fornito a corredo

Note:
the capacitor will be supplied separately



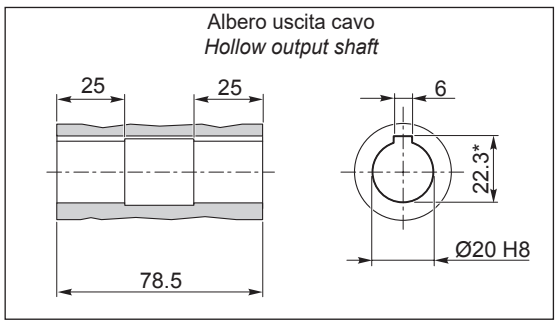
O17

Albero uscita cavo
Hollow output shaft

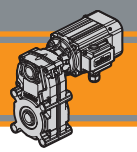


O20

Albero uscita cavo
Hollow output shaft



*: Sede linguetta ribassata / *Special keyway*



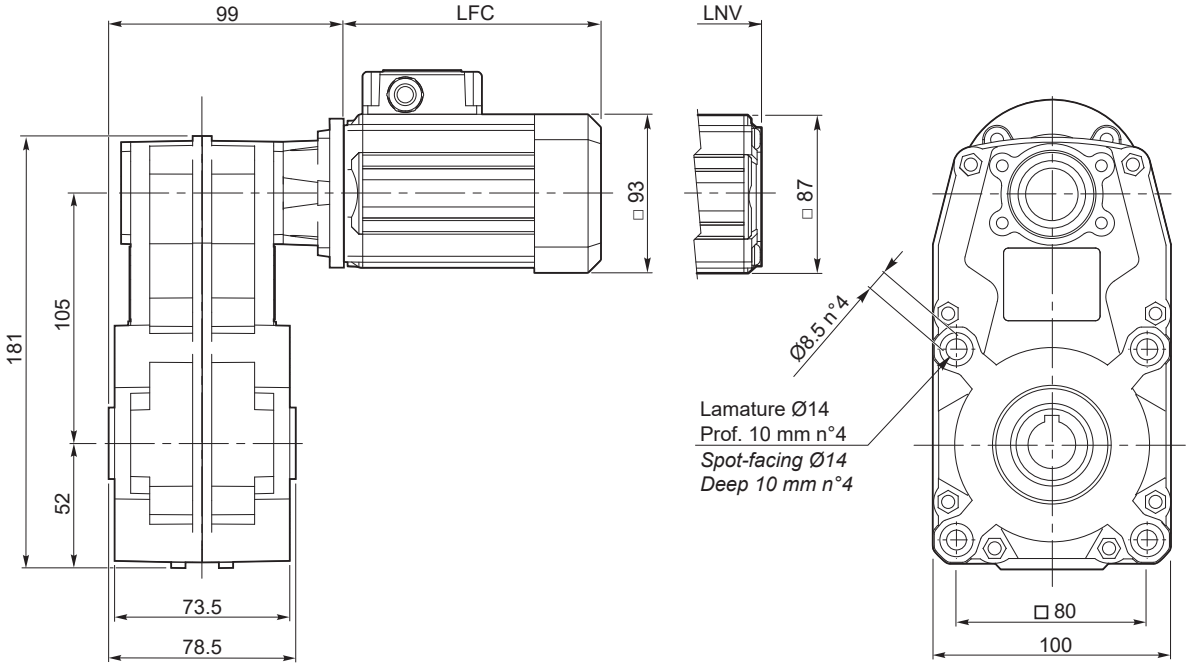
FT105 U

FT 105...U

SMT56...TEFC
SMM56... TEFC

SMT56...TENV
SMM56... TENV

S3 servizio *duty* **30%**



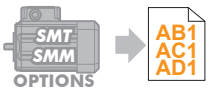
NOTA: Stessi fissaggi da entrambi i lati
NOTE: Same fixing points in both sides

SMT	LFC	LNV	Kg
5624	141	117	7
5634	151	127	7.4
5644	186	162	8.6
5654	206	182	9.3

SMM	LFC	LNV	Kg
5624	151	127	7.3
5634	171	147	7.9
5644	206	182	9.2

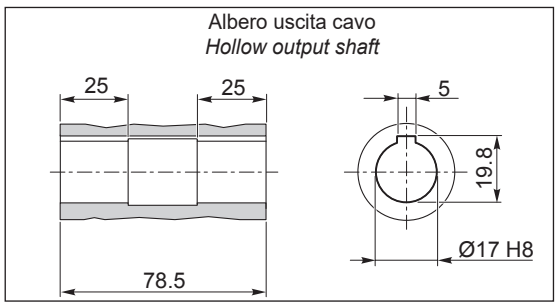
Nota:
il condensatore sarà fornito a corredo

Note:
the capacitor will be supplied separately



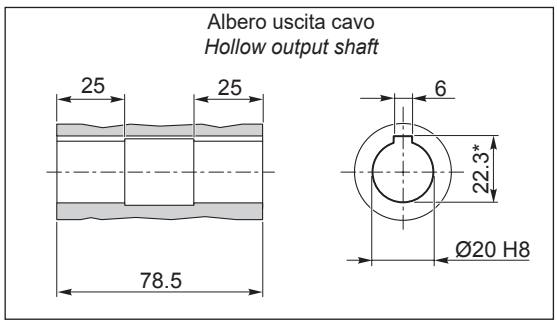
O17

Albero uscita cavo
Hollow output shaft



O20

Albero uscita cavo
Hollow output shaft



*: Sede linguetta ribassata / *Special keyway*

Note/*Notes*

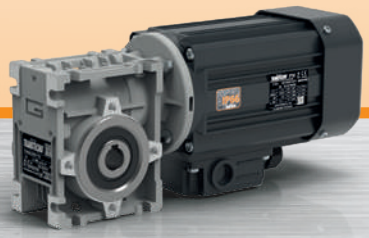
MINI TECNO™

small but strong

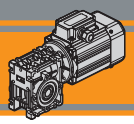
CM-CMP

AC

Motoriduttori CA a vite senza fine
AC Wormgearmotors



MINI TECNO™ brand of TRANSTECNO®



Caratteristiche tecniche

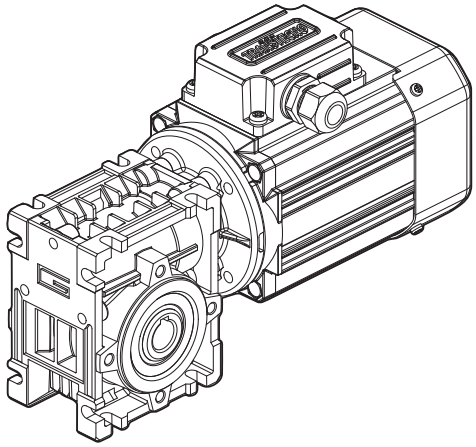
Le caratteristiche principali dei motoriduttori CM e CMP sono:

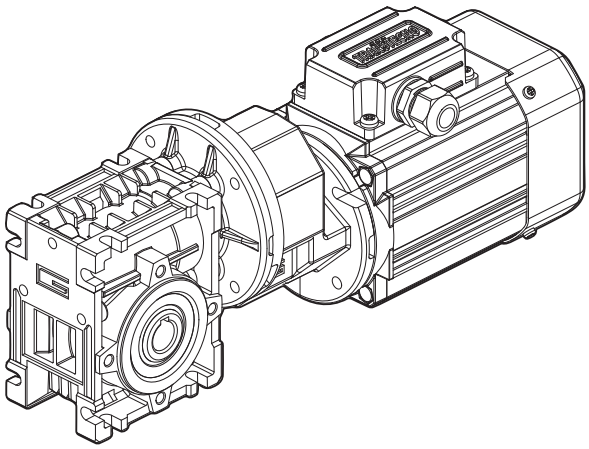
- Costruzione compatta
- Motorizzazioni in corrente alternata monofase e trifase
- Carcassa motore estrusa in alluminio anodizzato nero
- Carcasse dei riduttori in pressofusione di alluminio
- Motore elettrico AC con grado di protezione IP66
- Lubrificazione permanente con olio sintetico
- Disponibili sia nella versione ventilata TEFC (servizio S1) che non ventilata TENV (servizio S3)
- Protezione termica PTO 150°C per le taglie motore 56, 63 e 71.
- SMT56, SMT63 e SMT71 adatti al funzionamento con alimentazione da inverter
- Disponibili nelle versioni autofrenante, servoventilata e con certificazione UL.

Technical features

CM and CMP gearmotors range has the following main features:

- *Compact design*
- *AC single phase and three phase motors available*
- *Motor extruded aluminum housing black anodized*
- *Gearbox die-cast aluminum housing*
- *AC electric motor in IP66 protection Standard*
- *Permanent synthetic oil long-life lubrication*
- *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*
- *Brake motors, forced ventilation motors and UL compliance versions available.*





Designazione — *Classification*

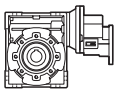
RIDUTTORI A VITE SENZA FINE / WORMGEARBOXES

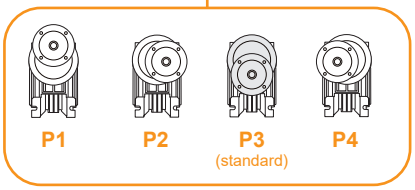
RIDUTTORE / *GEARBOX*

CM	040	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*
CM 	026 026 (D11) 026 (D14) 030 040	U F...	Vedere tabella *See tables*	56.. 63.. 71..	B14	SZDX SZSX DZ	BRDX BRSX (*)	0° 90° 180° 270°	VS

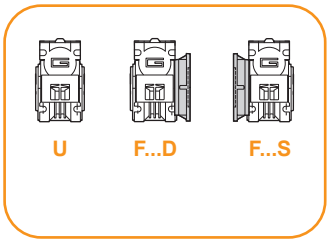
RIDUTTORI A VITE SENZA FINE CON PRECOPPIA / PRE-STAGE WORMGEARBOXES

RIDUTTORE / *GEARBOX*

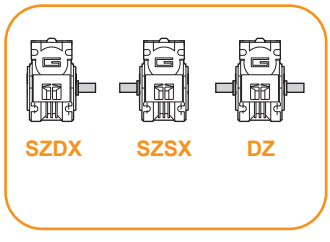
CMP	063/040	U	90	63	B14	SZDX	BRSX	90	P4	VS
Tipo *Type*	Grandezza *Size*	Versione Riduttore *Gearbox Version*	Rapporto *Ratio*	IEC	Forma costruttiva Version	Albero di uscita *Output shaft*	Braccio di reazione *Torque arm*	Angolo *Angle*	Pos. di montaggio precoppia *Pre stage mounting position*	Opzioni *Options*
CMP 	056/030 056/040 063/040	U F...	Vedere tabella *See tables*	56.. 63..	B5 B14	SZDX SZSX DZ	BRDX BRSX (*)	0° 90° 180° 270°	P1 P2 P3 (standard) P4	VS



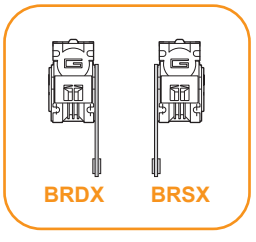
Versione Riduttore *Gearbox Version*



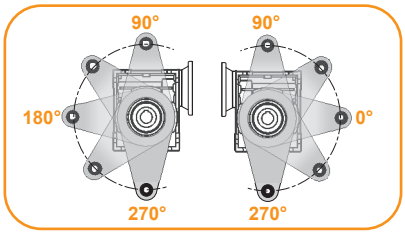
Albero di uscita *Output shaft*



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*

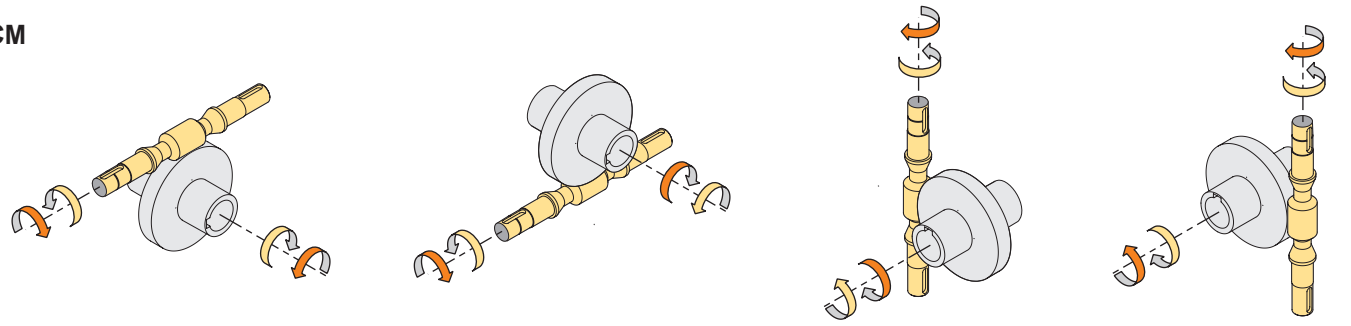
SMT	63	2	4	0.18 kW	B14	230-400 V	50 Hz	TEFC	BR	T1
Tipo *Type*	Grandezza *Size*	Indicativo potenza *Power coefficient*	Poli *Poles*	Potenza *Power*	Forma costruttiva *Version*	Tensione *Voltage*	Frequenza *Frequency*	*Ventilazione Fan cooling*	*Opzioni Options*	Pos. Morsettiera *Terminal box pos.*
SMT 	Vedere tab. *See tab.*	1-2-3-4-5	4	0.04 kW ... 0.75 kW	B14	230-400 V 460V	50Hz 60Hz	TEFC TENV	AB1 AC1 AD1	T1 (Std) T4 T2 T3

MOTORE MONOFASE / *SINGLE PHASE MOTOR*

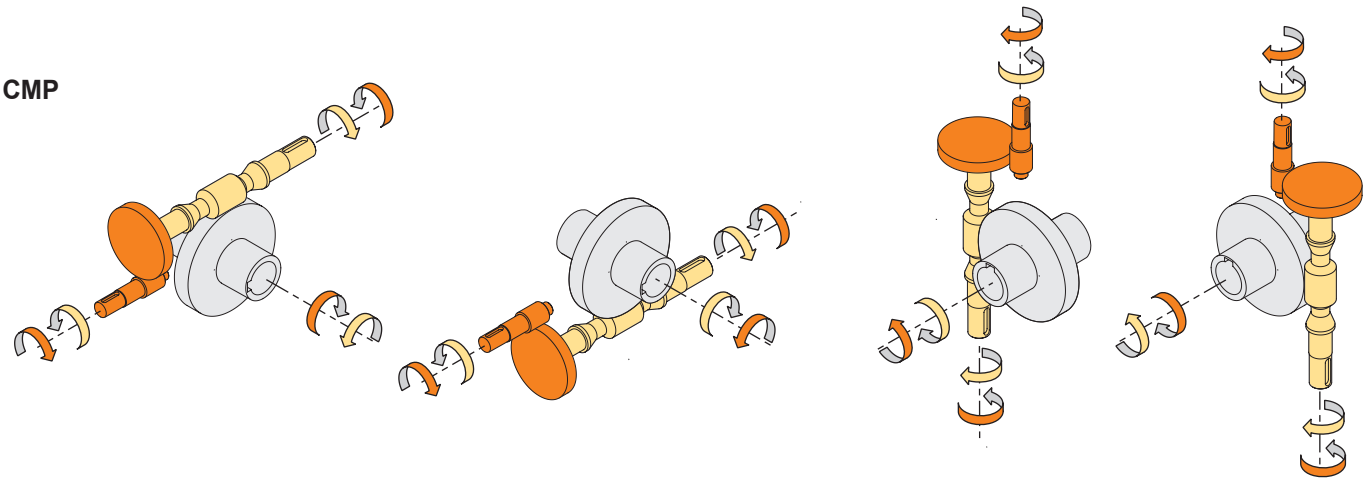
SMM	63	2	4	0.18 kW	B14	230 V	50 Hz	TEFC	UL-CSA	T1
Tipo *Type*	Grandezza *Size*	Indicativo potenza *Power coefficient*	Poli *Poles*	Potenza *Power*	Forma costruttiva *Version*	Tensione *Voltage*	Frequenza *Frequency*	*Ventilazione Fan cooling*	*Opzioni Options*	Pos. Morsettiera *Terminal box pos.*
SMM 	Vedere tab. *See tab.*	1-2-3-4	4	0.04 kW ... 0.55 kW	B14	230V	50Hz	TEFC TENV	AD1	T1 (Std) T4 T2 T3

Sensi di rotazione — *Direction of rotation*

CM



CMP



Simbologia — *Symbols*

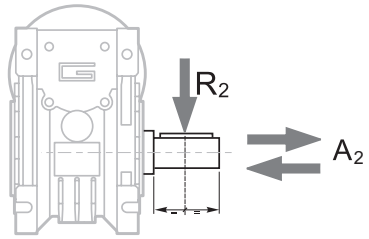
n_1	[min^{-1}]	Velocità in ingresso / *Input speed*	Rd	%	Rendimento dinamico / *Dynamic efficiency*
n_2	[min^{-1}]	Velocità in uscita / *Output speed*	A_2	N]	Carico assiale ammissibile in uscita / *Permitted output axial load*
i		Rapporto di riduzione / *Ratio*	Rs	%	Rendimento statico / *Static efficiency*
P_1	[kW]	Potenza in entrata / *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*	Z		Numero di principi della vite / *Worm starts*
sf		Fattore di servizio / *Service factor*	β		Angolo d'elica / *Helix angle*

Lubrificazione — *Lubrication*

I riduttori a vite senza fine della serie CM sono lubrificati a vita con olio sintetico di viscosità 320 e possono essere installati in qualunque posizione di montaggio.

Permanent synthetic oil long-life lubrication allow to use CM wormgearbox range in all mounting position.

Carichi radiali — *Radial loads*

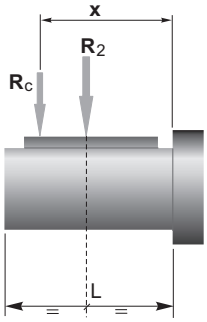


$A_2 = R_2 \times 0.2$

n_2 [min^{-1}]	R_2 [N]		
	CM026	CM030	CM040
187	400	674	1264
140	490	743	1392
93	580	851	1596
70	610	936	1754
56	610	1008	1890
47	610	1069	2004
35	610	1179	2210
28	610	1270	2381
23	610	1356	2542
18	610	1471	2759
14	610	1600	3000
		CMP... /030	CMP... /040

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:



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

$$R \leq R_c$$

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

	CM	CM / CMP	
	026	030	040
a	56	65	84
b	43	50	64
R_{2MAX}	610	1600	3000

Dati di dentatura — *Toothing data*

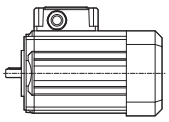
	Dati della coppia vite-corona Worm wheel data	Rapporto / *Ratio*											
		5	7.5	10	15	20	25	30	40	50	60	80	100
CM026	Z	6	4	3	2	2		1	1	1	1		
	β	34° 35'	24° 41'	19° 1'	12° 57 '	10° 30'		6° 33'	5° 17'	4° 26'	3°49'		
CM030	Z	6	4	3	2	2	2	1	1	1	1	1	1
	β	27° 4'	24° 28'	18° 50'	12° 49'	10° 23'	8° 43'	6° 29'	5° 14'	4° 23'	3° 46'	2° 57'	2° 25'
CM040	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'

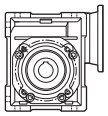
Rendimento — *Efficiency*

	n_1 [min^{-1}]	Rendimento Efficiency	Rapporto / *Ratio*											
			5	7.5	10	15	20	25	30	40	50	60	80	100
CM026	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		
CM030	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
CM040	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

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

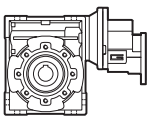
Motori applicabili — *Motor adapters*





		SMT				SMM			
		5014 5024 5034 5044	5624 5634 5644 5654	6324 6334 6344	7124 7134 7144	5014 5024 5034	5624 5634 5644	6324 6334	7124 7134
CM	026	5 - 60				5 - 60			
	030	5 - 100		5-50		5 - 100		5-50	
	040	5- 100			5-30	5- 100			5-30

5 - 100 Rapporti di riduzione i
Ratio i



		SMT			SMM		
		5014 5024 5034 5044	5624 5634 5644 5654	6324 6334 6344	5014 5024 5034	5624 5634 5644	6324 6334
CMP	056/030	60 - 150			60 - 150		
	056/040	60 - 300			60 - 300		
	063/040			60 - 120			60 - 120

60 - 300 Rapporti di riduzione i
Ratio i

Dati tecnici

Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		
0.04						
SMT5014	**280**	1.2	11.0	5	**CM026**	
SMM5014	**187**	1.7	8.1	7.5	**CM026**	
(1400 min^{-1})	**140**	2.3	6.2	10	**CM026**	
SMT SMM	**93**	3.2	4.4	15	**CM026**	
	70	4.0	3.5	20	**CM026**	
	47	5.4	2.8	30	**CM026**	
	35	6.7	2.1	40	**CM026**	
	28	7.8	1.7	50	**CM026**	
	23	8.7	1.4	60	**CM026**	
	280	1.2	15.3	5	**CM030**	
	187	1.7	11.5	7.5	**CM030**	
	140	2.3	9.2	10	**CM030**	
	93	3.2	6.5	15	**CM030**	
	70	4.1	4.6	20	**CM030**	
	56	4.9	4.1	25	**CM030**	
	47	5.5	4.0	30	**CM030**	
	35	6.8	3.0	40	**CM030**	
	28	7.9	2.4	50	**CM030**	
	23	9.0	1.9	60	**CM030**	
	23	11	2.4	60		**CMP056/030**
	19	12	2.1	75		**CMP056/030**
	18	10	1.4	80	**CM030**	
	16	14	2.3	90		**CMP056/030**
	14	12	1.2	100	**CM030**	
	12	17	1.7	120		**CMP056/030**
	9	20	1.4	150		**CMP056/030**
	23	9.5	3.8	60	**CM040**	
	23	11	5.2	60		**CMP056/040**
	19	13	3.9	75		**CMP056/040**
	18	11	2.9	80	**CM040**	
	16	15	4.7	90		**CMP056/040**
	14	13	2.5	100	**CM040**	
	12	19	3.3	120		**CMP056/040**
	9	21	2.7	150		**CMP056/040**
	8	24	2.3	180		**CMP056/040**
	6	28	1.7	240		**CMP056/040**
	5	30	1.4	300		**CMP056/040**
0.06						
SMT5024	**280**	1.8	7.3	5	**CM026**	
SMM5024	**187**	2.6	5.4	7.5	**CM026**	
(1400 min^{-1})	**140**	3.4	4.1	10	**CM026**	
SMT SMM	**93**	4.8	2.9	15	**CM026**	
	70	6.1	2.3	20	**CM026**	
	47	8.1	1.9	30	**CM026**	
	35	10	1.4	40	**CM026**	
	28	12	1.1	50	**CM026**	
	23	13	0.9	60	**CM026**	

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		
0.06						
SMT5024	**280**	1.8	10.2	5	**CM030**	
SMM5024	**187**	2.6	7.7	7.5	**CM030**	
(1400 min^{-1})	**140**	3.4	6.1	10	**CM030**	
SMT SMM	**93**	4.9	4.3	15	**CM030**	
	70	6.1	3.1	20	**CM030**	
	56	7.4	2.7	25	**CM030**	
	47	8.2	2.7	30	**CM030**	
	35	10	2.0	40	**CM030**	
	28	12	1.6	50	**CM030**	
	23	14	1.3	60	**CM030**	
	23	16	1.6	60		**CMP056/030**
	19	19	1.4	75		**CMP056/030**
	18	16	1.0	80	**CM030**	
	16	21	1.6	90		**CMP056/030**
	14	18	0.8	100	**CM030**	
	12	25	1.1	120		**CMP056/030**
	9	29	0.9	150		**CMP056/030**
	35	11	3.9	40	**CM040**	
	28	12	3.2	50	**CM040**	
	23	14	2.5	60	**CM040**	
	23	17	3.4	60		**CMP056/040**
	19	20	2.6	75		**CMP056/040**
	18	17	1.9	80	**CM040**	
	16	23	3.1	90		**CMP056/040**
	14	19	1.6	100	**CM040**	
	12	28	2.2	120		**CMP056/040**
	9	32	1.8	150		**CMP056/040**
	8	35	1.5	180		**CMP056/040**
	6	41	1.1	240		**CMP056/040**
	5	46	0.9	300		**CMP056/040**
0.09						
SMT5034	**280**	2.7	4.9	5	**CM026**	
SMM5034	**187**	3.9	3.6	7.5	**CM026**	
SMT5624	**140**	5.1	2.7	10	**CM026**	
SMM5624	**93**	7.2	1.9	15	**CM026**	
(1400 min^{-1})	**70**	9.1	1.5	20	**CM026**	
	47	12	1.2	30	**CM026**	
SMT SMM	**35**	15	0.9	40	**CM026**	
	28	17	0.7	50	**CM026**	

IEC

Motori *Motors*	SMT		SMM	
	5014 5024 5034	**5624**	**5014 5024 5034**	**5624**
IEC	**56 B14**		**56 B14**	

Dati tecnici

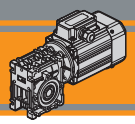
Technical data

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		
0.09						
SMT5034	**280**	2.6	6.8	5	**CM030**	
SMM5034	**187**	3.9	5.1	7.5	**CM030**	
SMT5624	**140**	5.2	4.1	10	**CM030**	
SMM5624	**93**	7.3	2.9	15	**CM030**	
(1400 min^{-1})	**70**	9.2	2.1	20	**CM030**	
SMT SMM	**56**	11	1.8	25	**CM030**	
	47	12	1.8	30	**CM030**	
	35	15	1.3	40	**CM030**	
	28	18	1.1	50	**CM030**	
	23	20	0.8	60	**CM030**	
	23	24	1.1	60		**CMP056/030**
	19	29	0.9	75		**CMP056/030**
	16	32	1.0	90		**CMP056/030**
	70	10	4.2	20	**CM040**	
	56	11	3.3	25	**CM040**	
	47	13	3.7	30	**CM040**	
	35	16	2.6	40	**CM040**	
	28	18	2.1	50	**CM040**	
	23	21	1.7	60	**CM040**	
	23	25	2.3	60		**CMP056/040**
	19	30	1.7	75		**CMP056/040**
	18	26	1.3	80	**CM040**	
	16	34	2.1	90		**CMP056/040**
	14	28	1.1	100	**CM040**	
	12	42	1.5	120		**CMP056/040**
	9	48	1.2	150		**CMP056/040**
	8	53	1.0	180		**CMP056/040**
0.12						
SMT5044	**280**	3.6	3.7	5	**CM026**	
SMT5634	**187**	5.2	2.7	7.5	**CM026**	
SMM5634	**140**	6.8	2.1	10	**CM026**	
(1400 min^{-1})	**93**	10	1.5	15	**CM026**	
SMT SMM	**70**	12	1.2	20	**CM026**	
	47	16	0.9	30	**CM026**	
	35	20	0.7	40	**CM026**	
	280	3.5	5.1	5	**CM030**	
	187	5.2	3.8	7.5	**CM030**	
	140	6.9	3.1	10	**CM030**	
	93	10	2.2	15	**CM030**	
	70	12	1.5	20	**CM030**	
	56	15	1.4	25	**CM030**	
	47	16	1.3	30	**CM030**	
	35	20	1.0	40	**CM030**	
	28	24	0.8	50	**CM030**	
	23	32	0.8	60		**CMP056/030**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		
0.12						
SMT5044	**93**	10	4.5	15	**CM040**	
SMT5634	**70**	13	3.1	20	**CM040**	
SMM5634	**56**	15	2.5	25	**CM040**	
(1400 min^{-1})	**47**	17	2.8	30	**CM040**	
SMT SMM	**35**	21	2.0	40	**CM040**	
	28	25	1.6	50	**CM040**	
	23	28	1.3	60	**CM040**	
	23	34	1.7	60		**CMP056/040**
	19	40	1.3	75		**CMP056/040**
	18	34	1.0	80	**CM040**	
	16	45	1.6	90		**CMP056/040**
	14	38	0.8	100	**CM040**	
	12	56	1.1	120		**CMP056/040**
	9	64	1.0	150		**CMP056/040**
0.18						
SMT5644	**280**	5.3	2.4	5	**CM026**	
SMM5644	**187**	7.7	1.8	7.5	**CM026**	
(1400 min^{-1})	**140**	10	1.4	10	**CM026**	
SMT SMM	**93**	14	1.0	15	**CM026**	
	70	18	0.8	20	**CM026**	
	280	5.3	3.4	5	**CM030**	
	187	7.8	2.6	7.5	**CM030**	
	140	10	2.0	10	**CM030**	
	93	15	1.4	15	**CM030**	
	70	18	1.0	20	**CM030**	
	56	22	0.9	25	**CM030**	
	47	25	0.9	30	**CM030**	
	280	5.4	7.6	5	**CM040**	
	187	7.9	5.6	7.5	**CM040**	
	140	10	4.4	10	**CM040**	
	93	15	3.0	15	**CM040**	
	70	19	2.1	20	**CM040**	
	56	23	1.7	25	**CM040**	
	47	26	1.9	30	**CM040**	
	35	32	1.3	40	**CM040**	
	28	37	1.1	50	**CM040**	
	23	43	0.8	60	**CM040**	
	23	51	1.1	60		**CMP056/040**
	19	60	0.9	75		**CMP056/040**
	18	68	1.0	90		**CMP056/040**
	280	5.3	3.4	5	**CM030**	
	187	7.8	2.6	7.5	**CM030**	
	140	10	2.0	10	**CM030**	
	93	15	1.4	15	**CM030**	
	70	18	1.0	20	**CM030**	
	56	22	0.9	25	**CM030**	
	47	25	0.9	30	**CM030**	

IEC

Motori *Motors*	SMT		SMM	
	5034 **5044**	**5624** **5634** **5644**	**5034**	**5624** **5634** **5644**
IEC	**56 B14**		**56 B14**	



Dati tecnici — *Technical data*

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		
0.18						
SMT6324	**280**	5.4	7.6	5	**CM040**	
SMM6324	**187**	7.9	5.6	7.5	**CM040**	
(1400 min^{-1})	**140**	10	4.4	10	**CM040**	
SMT SMM	**93**	15	3.0	15	**CM040**	
	70	19	2.1	20	**CM040**	
	56	23	1.7	25	**CM040**	
	47	26	1.9	30	**CM040**	
	35	32	1.3	40	**CM040**	
	28	37	1.1	50	**CM040**	
	23	43	0.8	60	**CM040**	
	23	51	1.1	60		**CMP063/040**
	19	60	0.9	75		**CMP063/040**
	18	68	1.0	90		**CMP063/040**
0.25						
SMT5654	**280**	7	1.8	5	**CM026**	
(1400 min^{-1})	**187**	11	1.3	8	**CM026**	
SMT SMM	**140**	14	1.0	10	**CM026**	
	280	7.3	2.5	5	**CM030**	
	187	11	1.8	7.5	**CM030**	
	140	14	1.5	10	**CM030**	
	93	20	1.0	15	**CM030**	
	70	26	0.7	20	**CM030**	
	280	7.5	5.5	5	**CM040**	
	187	11	4.0	7.5	**CM040**	
	140	14	3.1	10	**CM040**	
	93	21	2.2	15	**CM040**	
	70	27	1.5	20	**CM040**	
	56	32	1.2	25	**CM040**	
	47	36	1.3	30	**CM040**	
	35	44	0.9	40	**CM040**	
	28	51	0.8	50	**CM040**	
	23	70	0.8	60		**CMP056/040**
0.25						
SMT6334	**280**	7.3	2.5	5	**CM030**	
SMM6334	**187**	11	1.8	7.5	**CM030**	
(1400 min^{-1})	**140**	14	1.5	10	**CM030**	
SMT SMM	**93**	20	1.0	15	**CM030**	
	70	26	0.7	20	**CM030**	

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i		
0.25						
SMT6334	**280**	7.5	5.5	5	**CM040**	
SMM6334	**187**	11	4.0	7.5	**CM040**	
(1400 min^{-1})	**140**	14	3.1	10	**CM040**	
SMT SMM	**93**	21	2.2	15	**CM040**	
	70	27	1.5	20	**CM040**	
	56	32	1.2	25	**CM040**	
	47	36	1.3	30	**CM040**	
	35	44	0.9	40	**CM040**	
	28	51	0.8	50	**CM040**	
	23	70	0.8	60		**CMP063/040**
0.37						
SMT6344	**280**	11	1.7	5	**CM030**	
(1400 min^{-1})	**187**	16	1.2	7.5	**CM030**	
SMT SMM	**140**	21	1.0	10	**CM030**	
	93	30	0.7	15	**CM030**	
	280	11	3.7	5	**CM040**	
	187	16	2.7	7.5	**CM040**	
	140	21	2.1	10	**CM040**	
	93	31	1.5	15	**CM040**	
	70	39	1.0	20	**CM040**	
	56	47	0.8	25	**CM040**	
	47	53	0.9	30	**CM040**	
0.37						
SMT7124	**280**	11	3.7	5	**CM040**	
SMM7124	**187**	16	2.7	7.5	**CM040**	
(1400 min^{-1})	**140**	21	2.1	10	**CM040**	
SMT SMM	**93**	31	1.5	15	**CM040**	
	70	39	1.0	20	**CM040**	
	56	47	0.8	25	**CM040**	
	47	53	0.9	30	**CM040**	
0.55						
SMT7134	**280**	17	2.5	5	**CM040**	
SMM7134	**187**	24	1.8	7.5	**CM040**	
(1400 min^{-1})	**140**	32	1.4	10	**CM040**	
SMT SMM	**93**	46	1.0	15	**CM040**	
0.75						
SMT7144	**280**	23	1.8	5	**CM040**	
(1400 min^{-1})	**187**	33	1.3	7.5	**CM040**	
SMT SMM	**140**	43	1.0	10	**CM040**	

IEC

Motori *Motors*	SMT			SMM	
	5654	**6324 6334 6344**	**7124 7134 7144**	**6324 6334**	**7124 7134**
IEC	**56 B14**	**63 B14**	**71 B14**	**63 B14**	**71 B14**

Dati tecnici elettrici — *Electrical technical data*

SMT SMM → AA3

AC

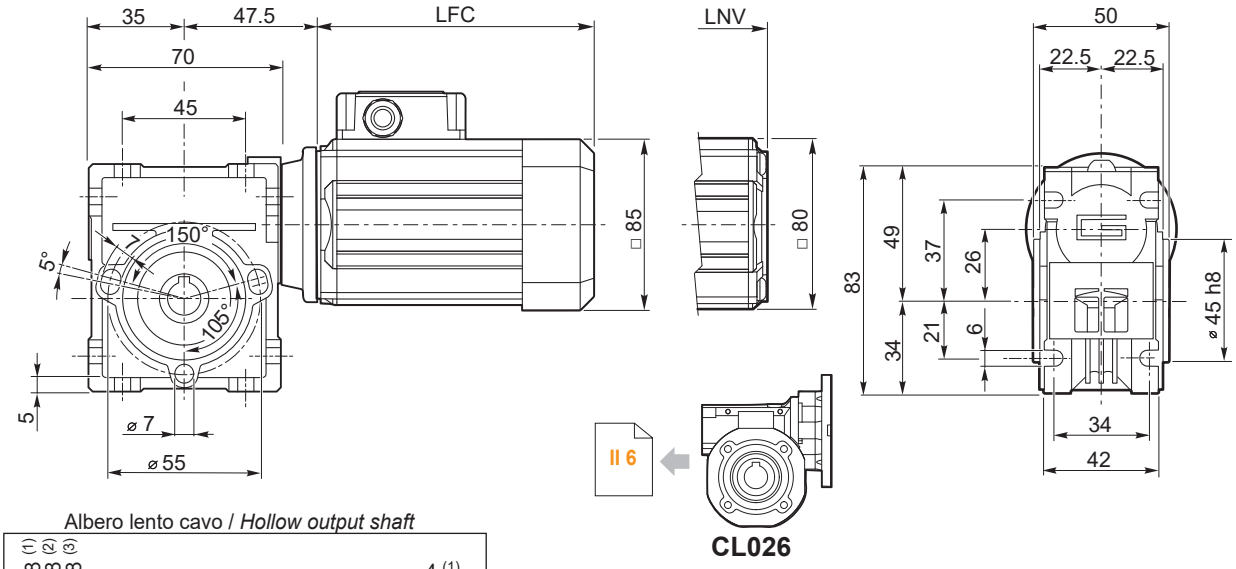
Dimensioni — *Dimensions*

CM 026 .. U

SMT50...TEFC
SMM50... TEFC

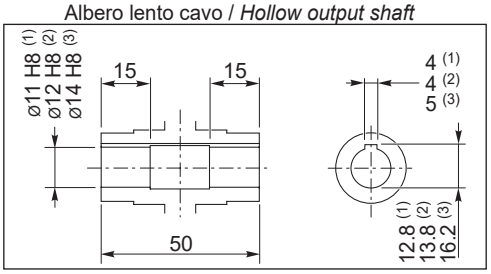
SMT50...TENV
SMM50... TENV

S3 servizio *duty* **30%**



CL026

Albero lento cavo / *Hollow output shaft*



SMT	LFC	LNV	Kg
5014	135.5	108.5	3.1
5024	150.5	123.5	3.5
5034	175.5	148.5	4.3
5044	200.5	173.5	5

SMM	LFC	LNV	Kg
5014	150.5	123.5	3.5
5024	175.5	148.5	4.3
5034	200.5	173.5	5

Nota: il condensatore sarà fornito a corredo
Note: *the capacitor will be supplied separately*

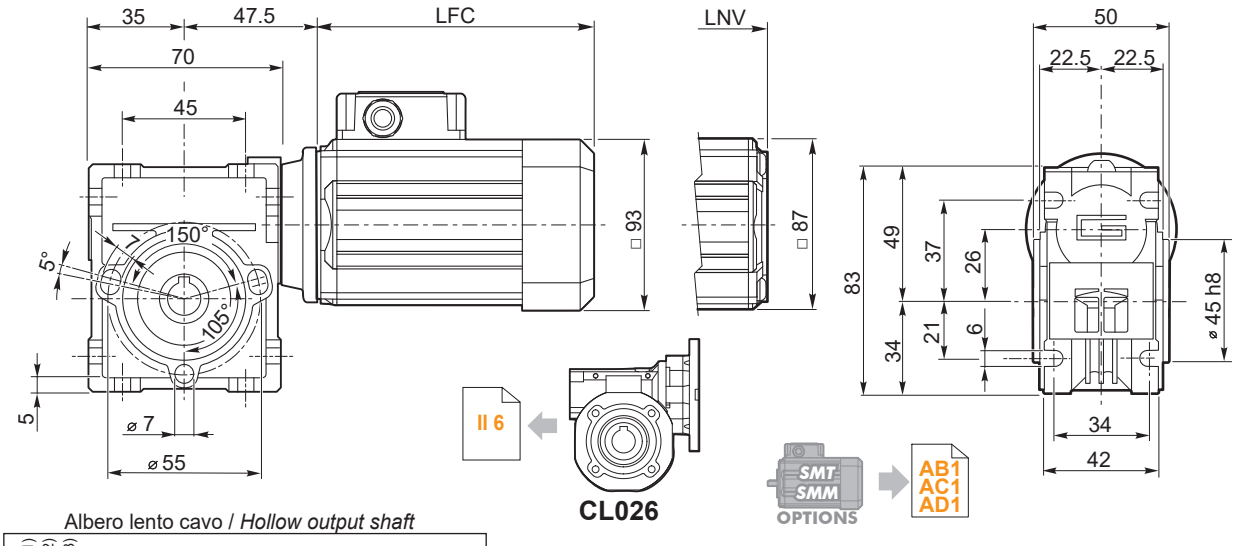
(1): CM 120/026 (D11)
(2): CM 120/026
(3): CM 120/026 (D14)

CM 026 .. U

SMT56...TEFC
SMM56... TEFC

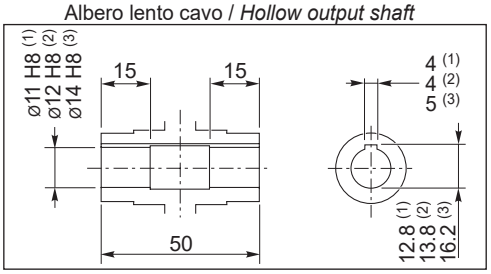
SMT56...TENV
SMM56... TENV

S3 servizio *duty* **30%**



CL026

Albero lento cavo / *Hollow output shaft*



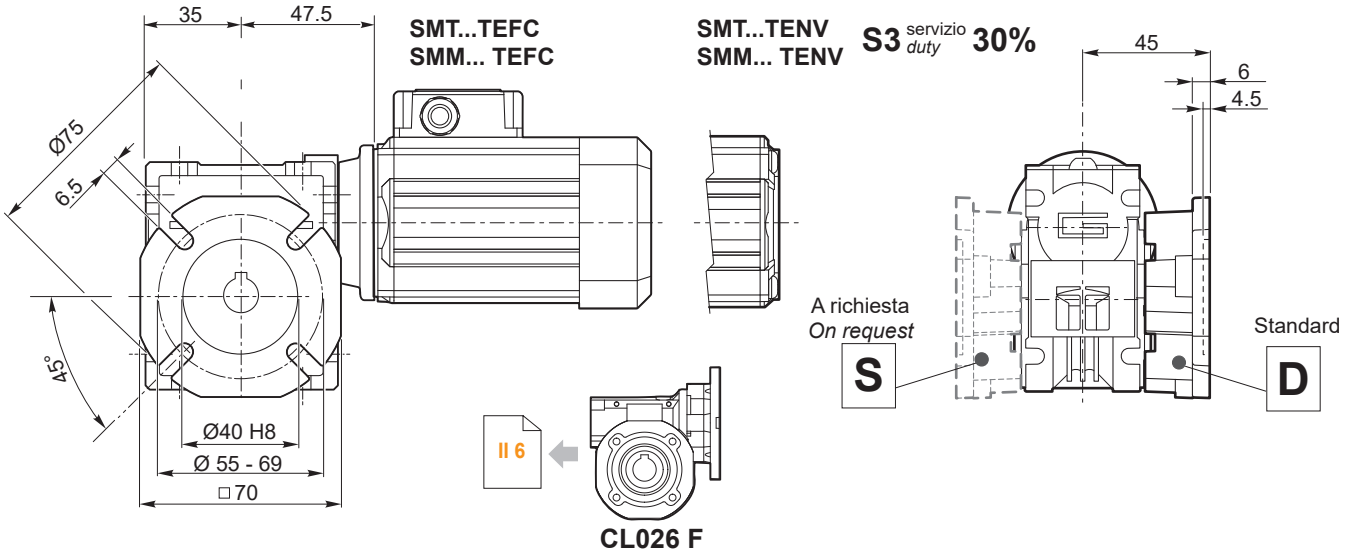
SMT	LFC	LNV	Kg
5624	141	117	3.6
5634	151	127	4
5644	186	162	5.2
5654	206	182	5.9

SMM	LFC	LNV	Kg
5624	151	127	3.9
5634	171	147	4.5
5644	206	182	5.8

Nota: il condensatore sarà fornito a corredo
Note: *the capacitor will be supplied separately*

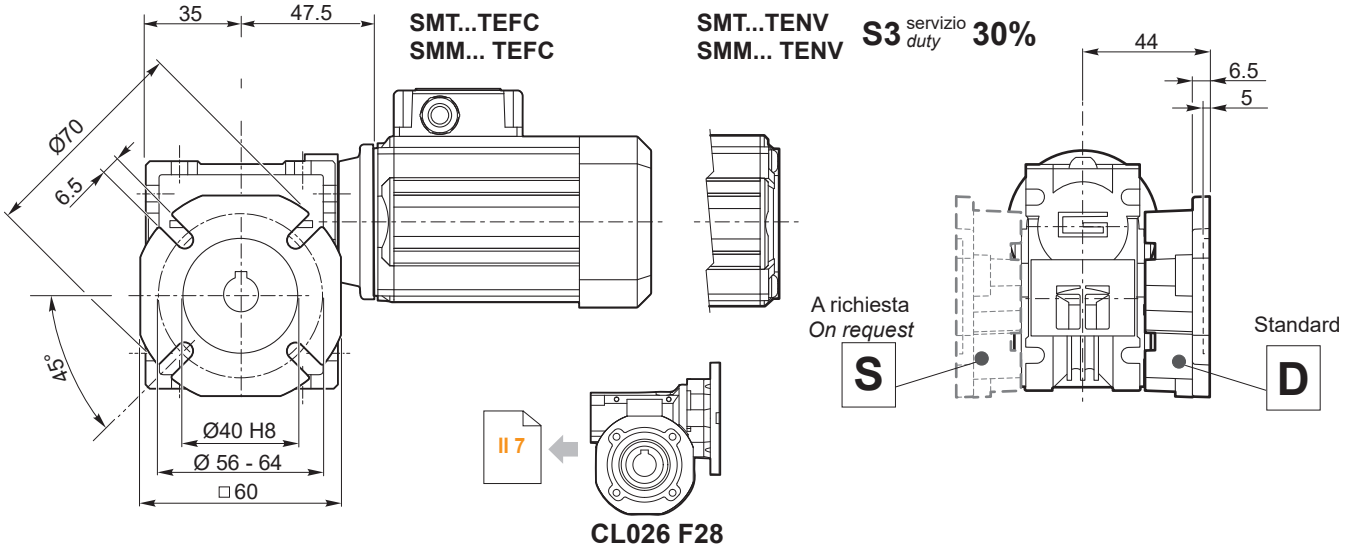
(1): CM 120/026 (D11)
(2): CM 120/026
(3): CM 120/026 (D14)

CM 026 .. F



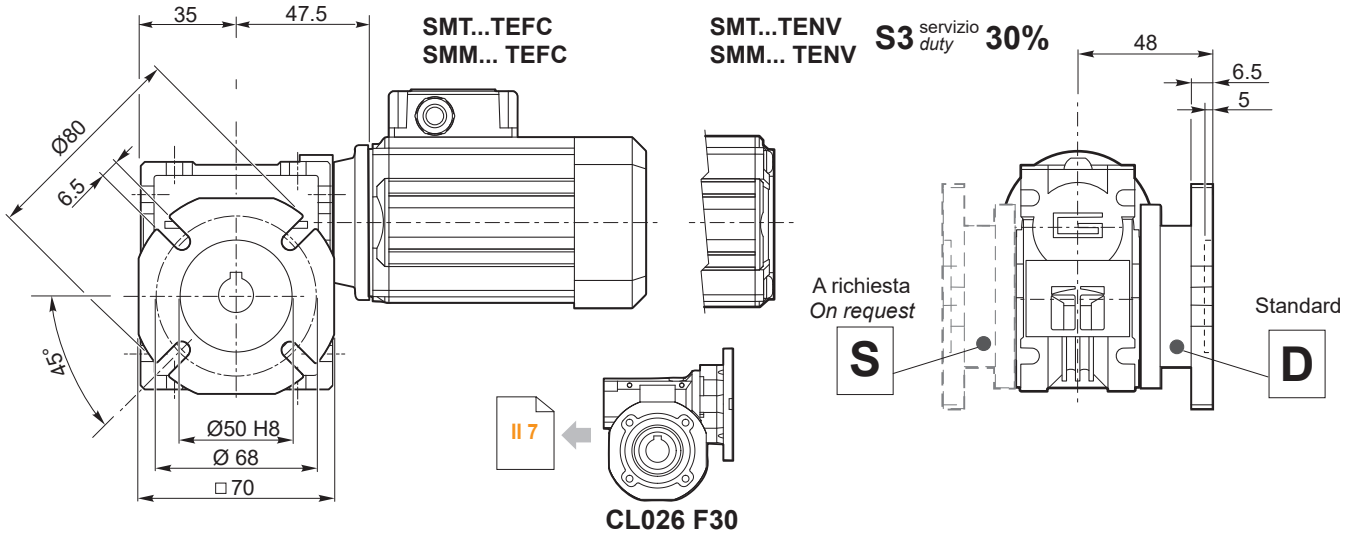
CL026 F

CM 026 .. F28



CL026 F28

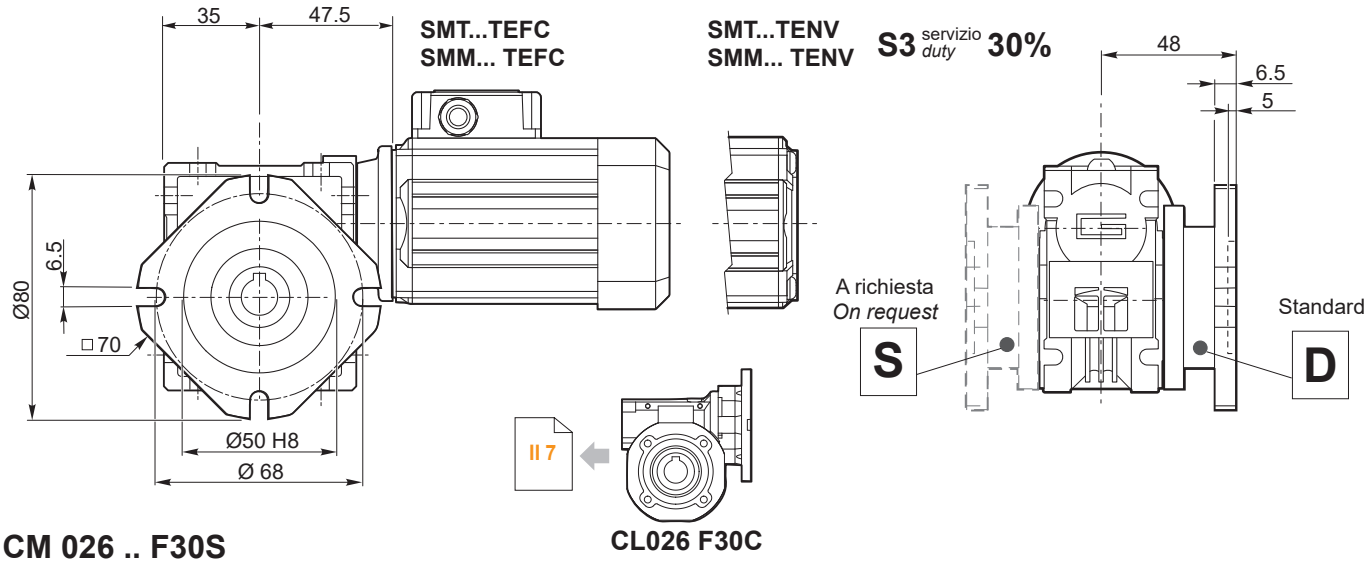
CM 026 .. F30



CL026 F30

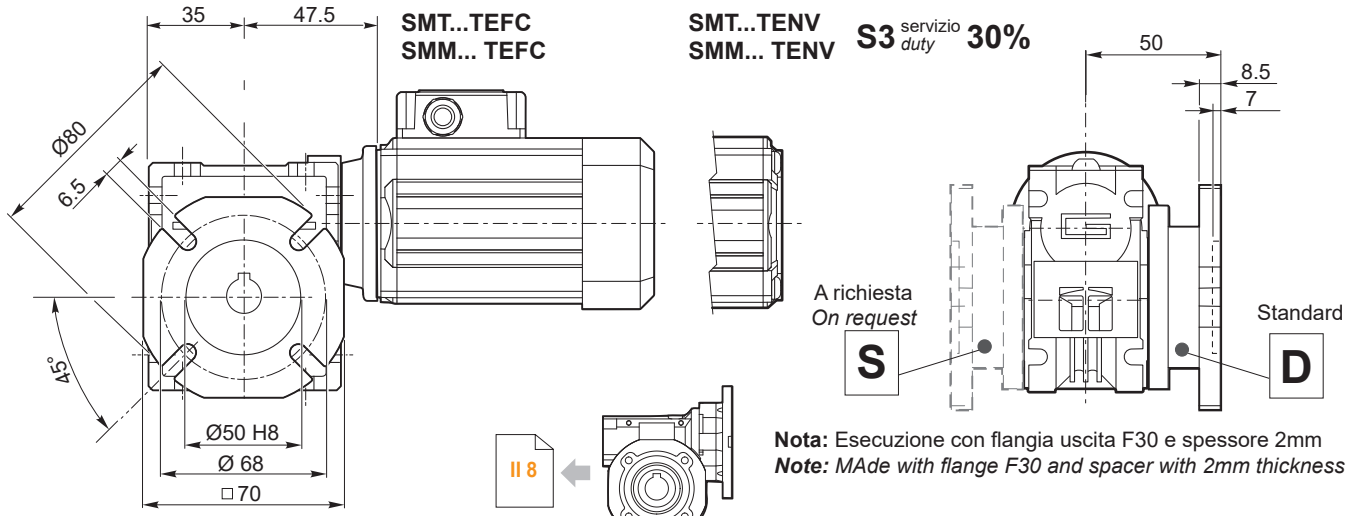
Dimensioni ***Dimensions***

CM 026 .. F30C



CL026 F30C

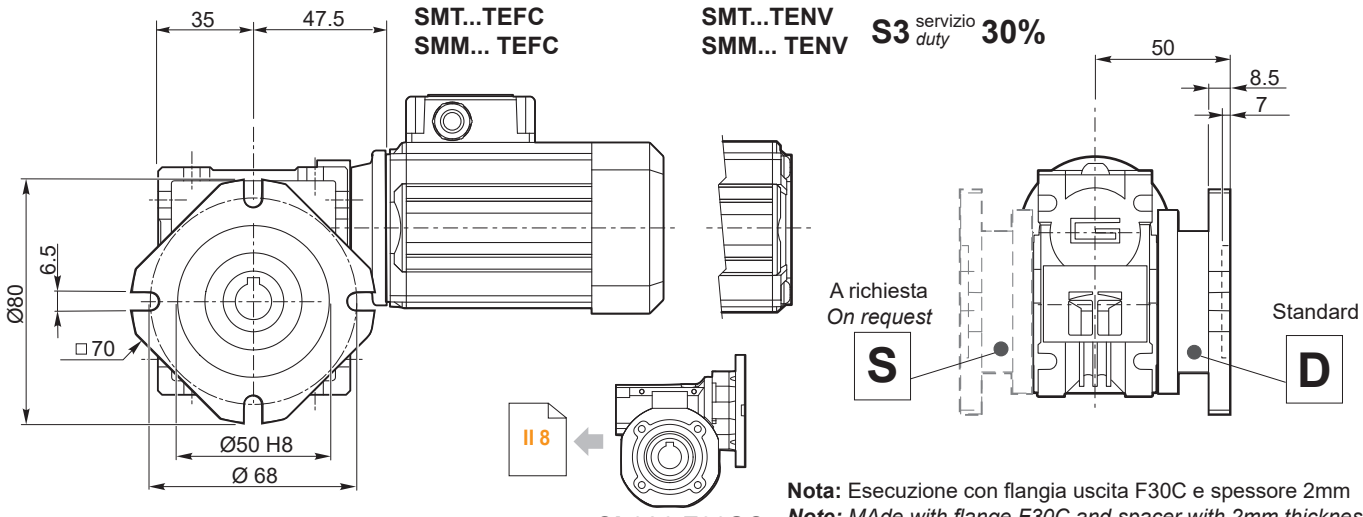
CM 026 .. F30S



CL026 F30S

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

CM 026 .. F30SC

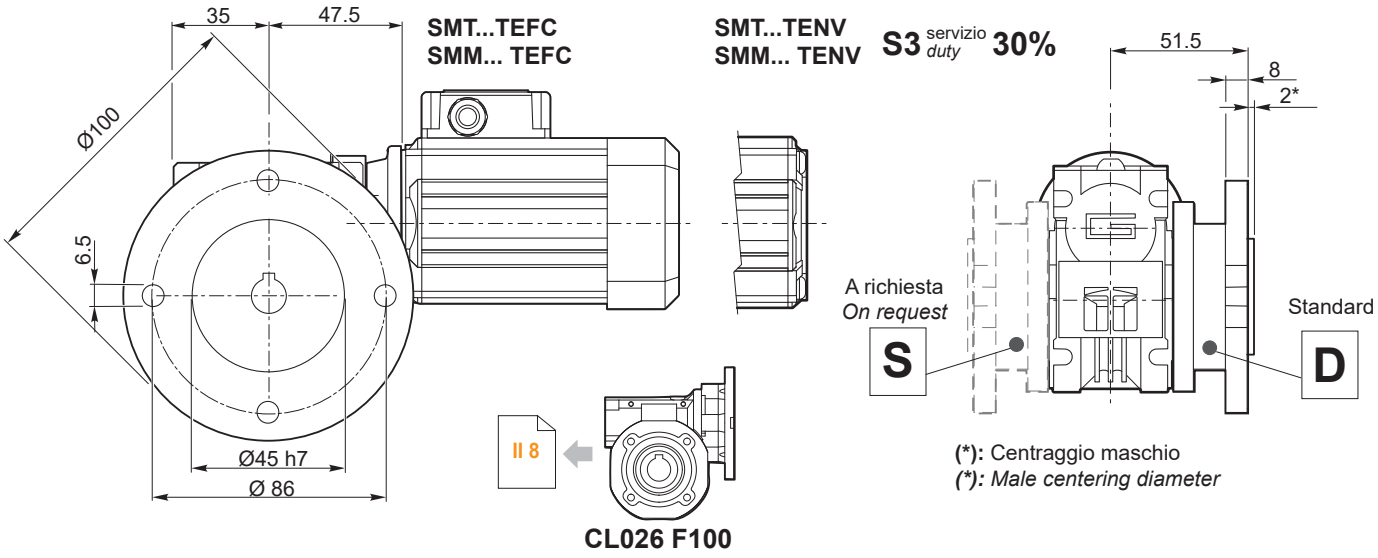


CL026 F30SC

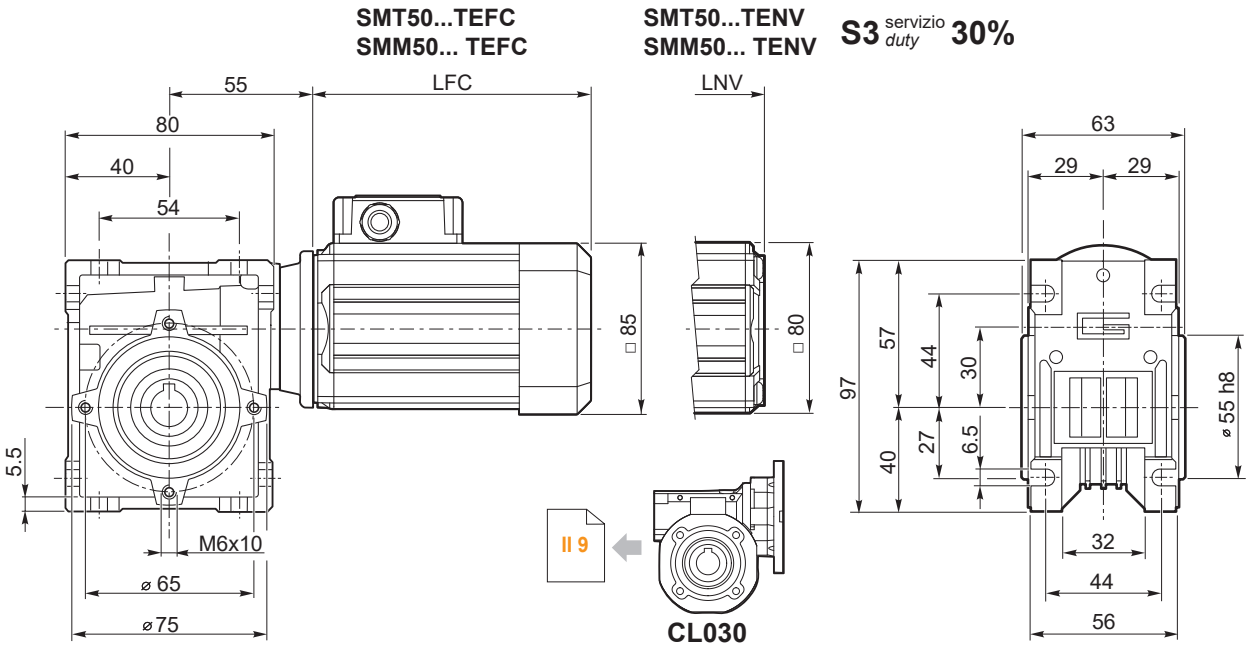
Nota: Esecuzione con flangia uscita F30C e spessore 2mm
Note: *MAde with flange F30C and spacer with 2mm thickness*

Dimensioni — *Dimensions*

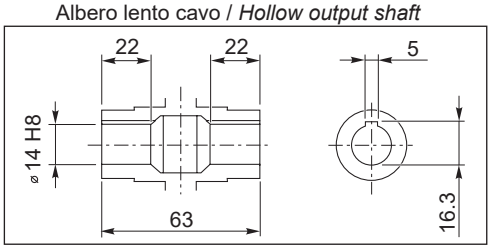
CM 026 .. F100



CM 030 ...U



Albero lento cavo / *Hollow output shaft*



SMT	LFC	LNV	Kg
5014	135.5	108.5	3.5
5024	150.5	123.5	3.9
5034	175.5	148.5	4.7
5044	200.5	173.5	5.4

SMM	LFC	LNV	Kg
5014	150.5	123.5	3.9
5024	175.5	148.5	4.7
5034	200.5	173.5	5.4

Nota: il condensatore sarà fornito a corredo
Note: *the capacitor will be supplied separately*

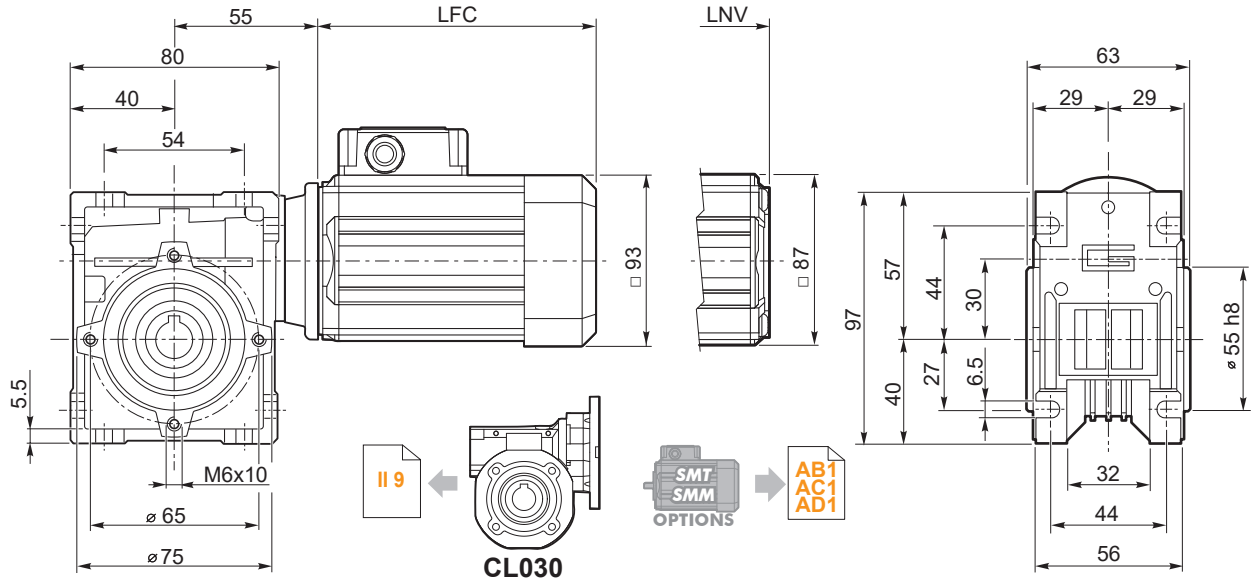
Dimensioni — *Dimensions*

CM 030 ...U

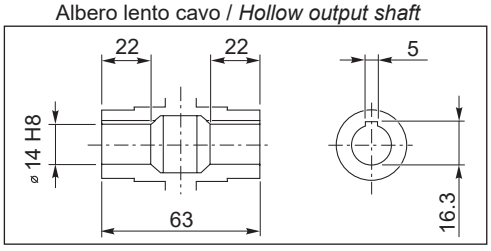
SMT56...TEFC
SMM56... TEFC

SMT56...TENV
SMM56... TENV

S3 servizio *duty* **30%**



Albero lento cavo / *Hollow output shaft*



SMT	LFC	LNV	Kg
5624	141	117	4
5634	151	127	4.4
5644	186	162	5.6
5654	206	182	6.3

SMM	LFC	LNV	Kg
5624	151	127	4.3
5634	171	147	4.9
5644	206	182	6.2

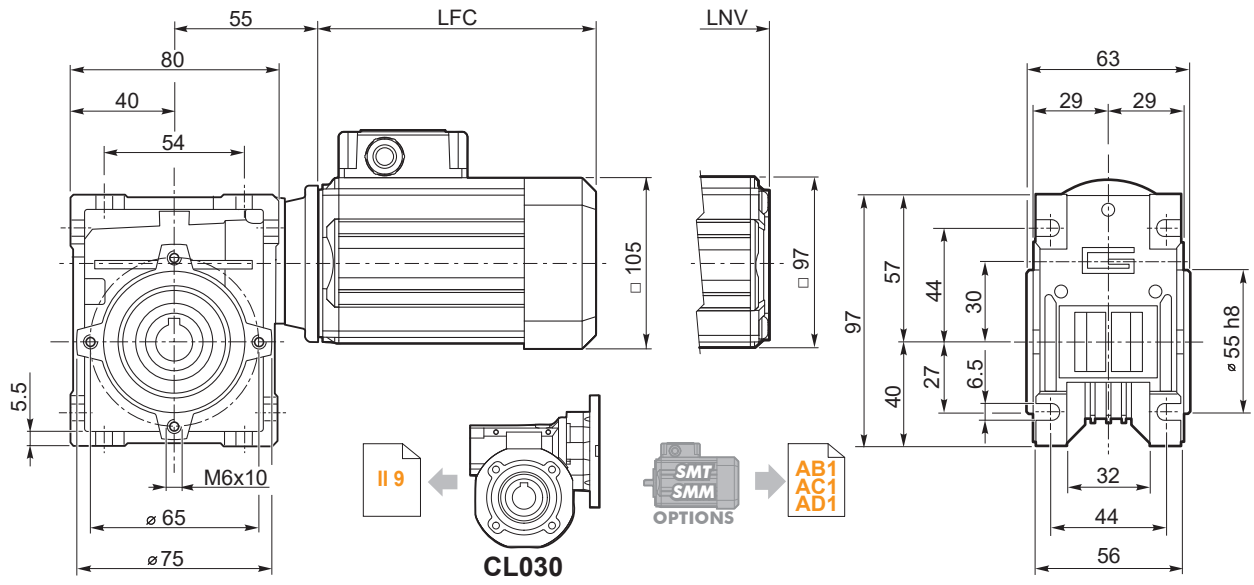
Nota: il condensatore sarà fornito a corredo
Note: *the capacitor will be supplied separately*

CM 030 ...U

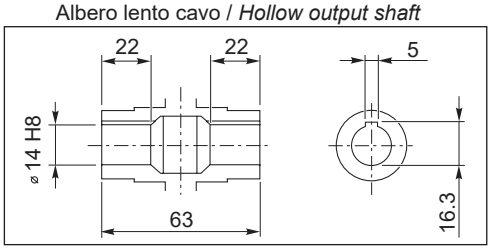
SMT63...TEFC
SMM63... TEFC

SMT63...TENV
SMM63... TENV

S3 servizio *duty* **30%**



Albero lento cavo / *Hollow output shaft*



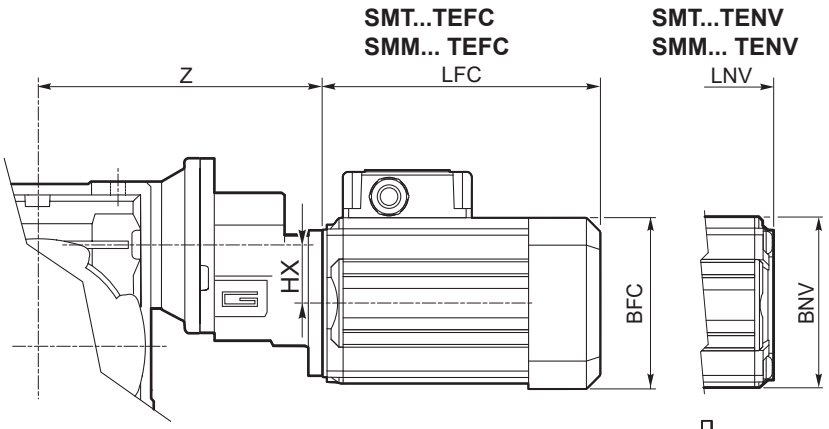
SMT	LFC	LNV	Kg
6324	165.5	138.5	5.5
6334	180.5	153.5	6.2
6344	205.5	178.5	7.4

SMM	LFC	LNV	Kg
6324	180.5	153.5	6.3
6334	205.5	178.5	7.5

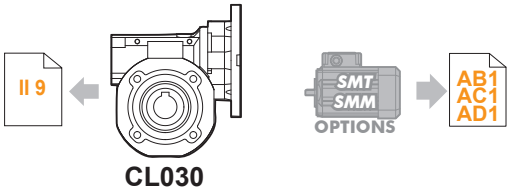
Nota: il condensatore sarà fornito a corredo
Note: *the capacitor will be supplied separately*

Dimensioni — *Dimensions*

CMP 056/030 ...U



	HX	Z
056/030	30.5	124



CL030

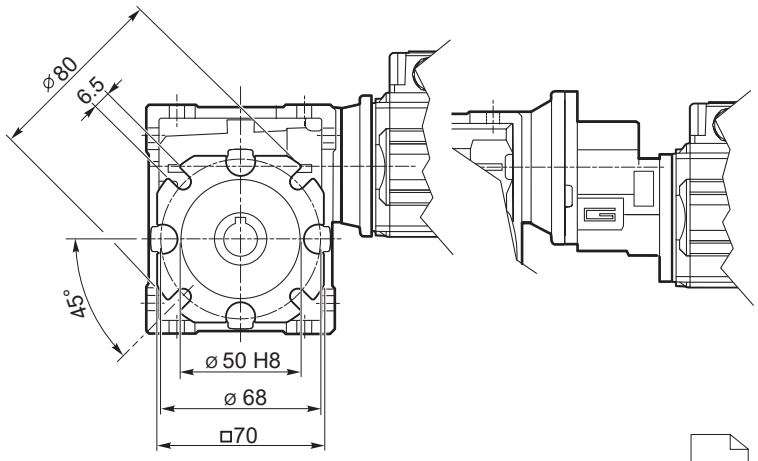
SMT	BFC	BNV	LFC	LNV
5014	□ 85	□ 80	135.5	108.5
5024			150.5	123.5
5034			175.5	148.5
5044			200.5	173.5
5624	□ 93	□ 87	141	117
5634			151	127
5644			186	162
5654			206	182

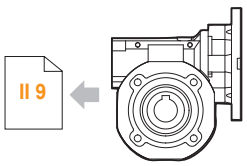
SMM	BFC	BNV	LFC	LNV
5014	□ 85	□ 80	150.5	123.5
5024			175.5	148.5
5034			200.5	173.5
5624	□ 93	□ 87	151	127
5634			186	162
5644			206	182

Nota: il condensatore sarà fornito a corredo
Note: *the capacitor will be supplied separately*

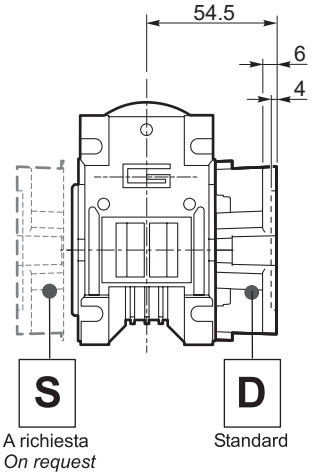
CM 030 ... - F

CMP 056/030 ... - F





CL030 F



A richiesta
On request

Standard

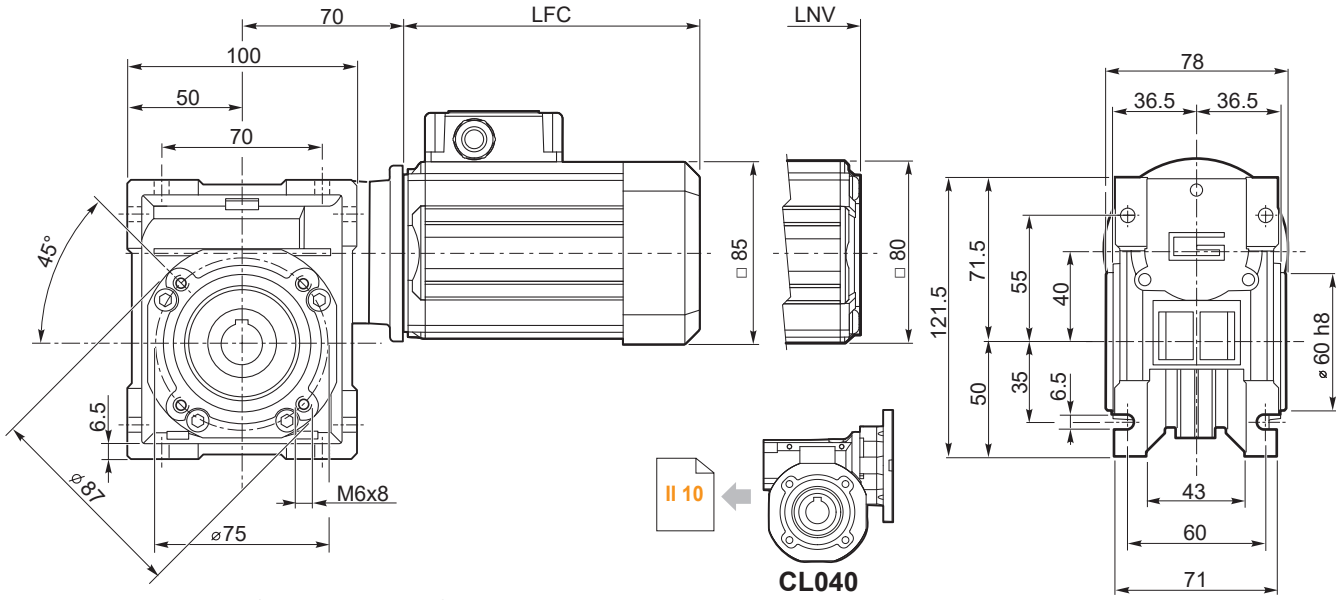
Dimensioni — *Dimensions*

CM 040 ...U

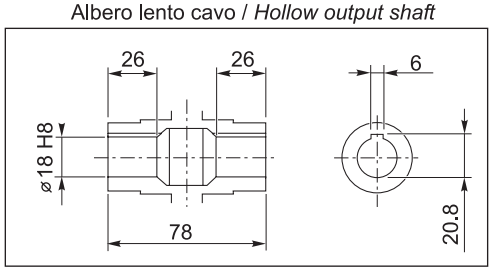
SMT50...TEFC
SMM50... TEFC

SMT50...TENV
SMM50... TENV

S3 servizio *duty* **30%**



Albero lento cavo / *Hollow output shaft*



SMT	LFC	LNV	Kg
5014	135.5	108.5	4.6
5024	150.5	123.5	5
5034	175.5	148.5	5.8
5044	200.5	173.5	6.5

SMM	LFC	LNV	Kg
5014	150.5	123.5	5
5024	175.5	148.5	5.8
5034	200.5	173.5	6.5

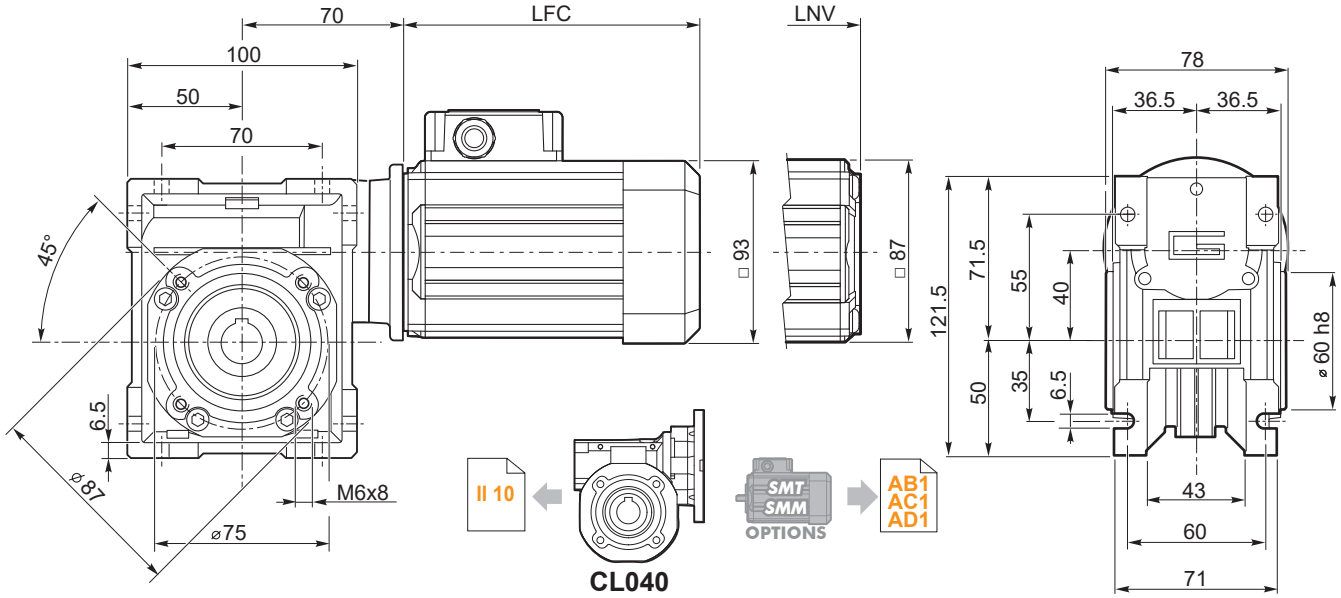
Nota: il condensatore sarà fornito a corredo
Note: *the capacitor will be supplied separately*

CM 040 ...U

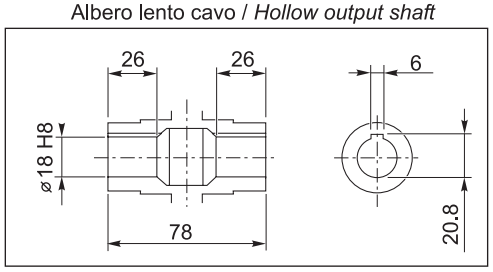
SMT56...TEFC
SMM56... TEFC

SMT56...TENV
SMM56... TENV

S3 servizio *duty* **30%**



Albero lento cavo / *Hollow output shaft*



SMT	LFC	LNV	Kg
5624	141	117	5.1
5634	151	127	5.5
5644	186	162	6.7
5654	206	182	7.4

SMM	LFC	LNV	Kg
5624	151	127	5.4
5634	171	147	6
5644	206	182	7.3

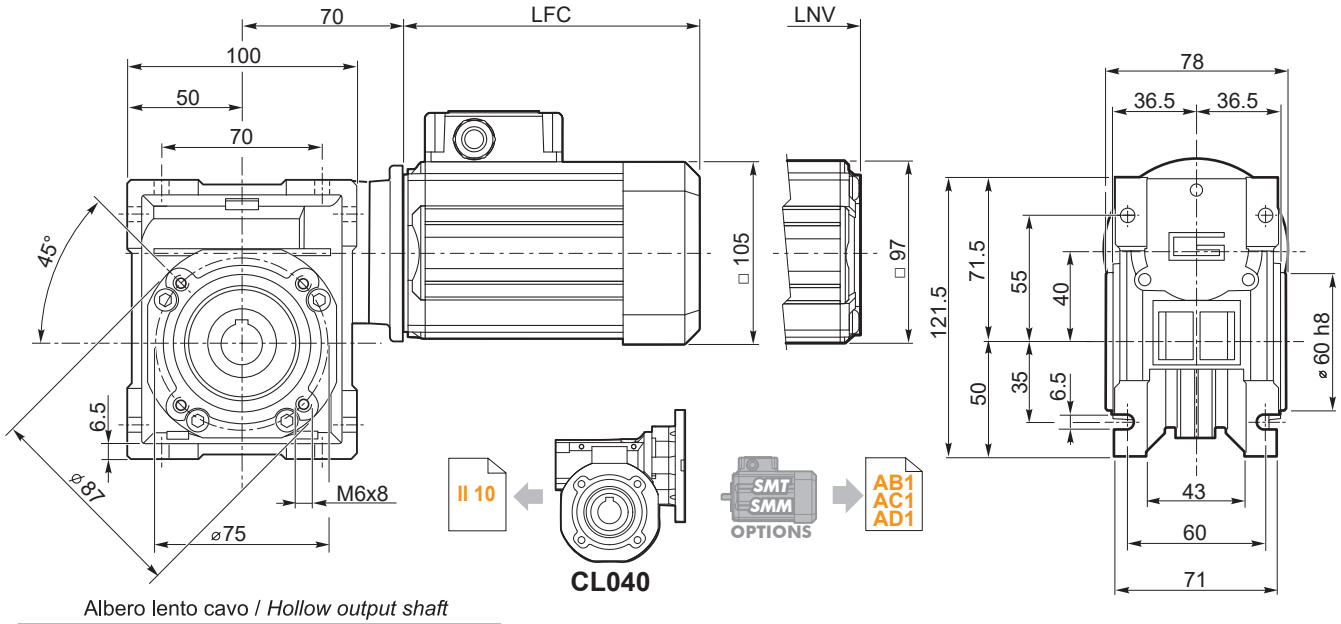
Nota: il condensatore sarà fornito a corredo
Note: *the capacitor will be supplied separately*

CM 040 ...U

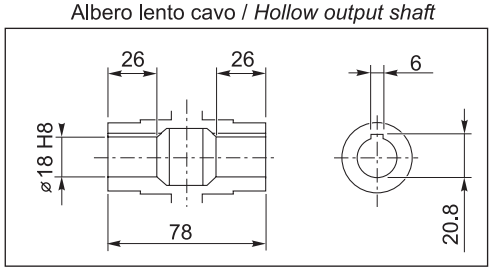
SMT63...TEFC
SMM63... TEFC

SMT63...TENV
SMM63... TENV

S3 servizio *duty* **30%**



Albero lento cavo / *Hollow output shaft*



SMT	LFC	LNV	Kg
6324	165.5	138.5	6.6
6334	180.5	153.5	7.3
6344	205.5	178.5	8.5

SMM	LFC	LNV	Kg
6324	180.5	153.5	7.4
6334	205.5	178.5	8.6

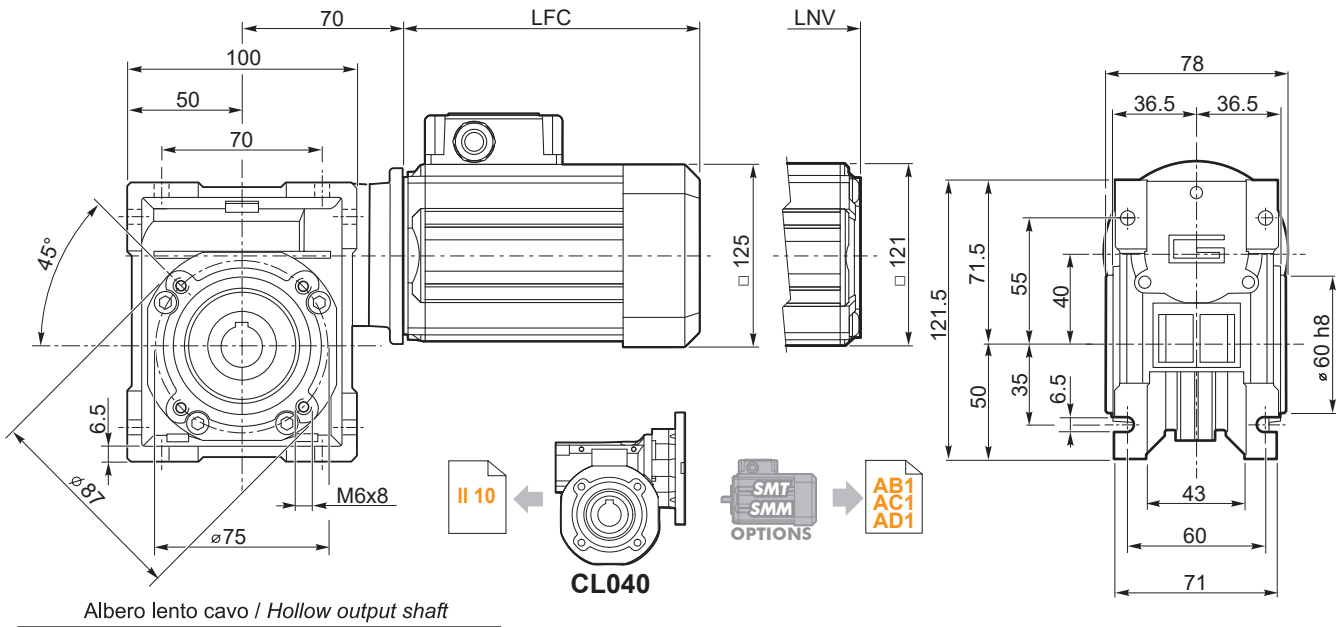
Nota: il condensatore sarà fornito a corredo
Note: *the capacitor will be supplied separately*

CM 040 ...U

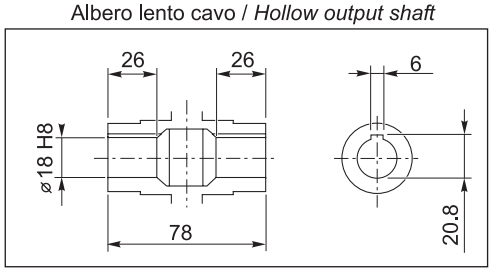
SMT71...TEFC
SMM71... TEFC

SMT71...TENV
SMM71... TENV

S3 servizio *duty* **30%**



Albero lento cavo / *Hollow output shaft*



SMT	LFC	LNV	Kg
7124	174	145.5	8.8
7134	189	160.5	9.9
7144	214	185.5	11.6

SMM	LFC	LNV	Kg
7124	189	160.5	9.5
7134	214	185.5	11.5

Nota: il condensatore sarà fornito a corredo
Note: *the capacitor will be supplied separately*

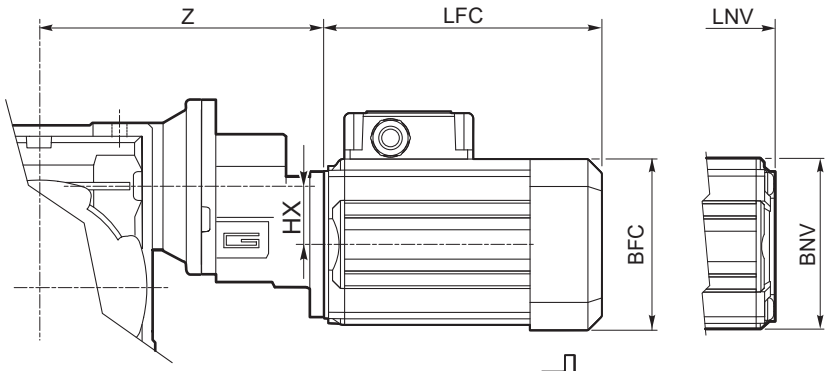
Dimensioni — *Dimensions*

CMP .../040 ...U

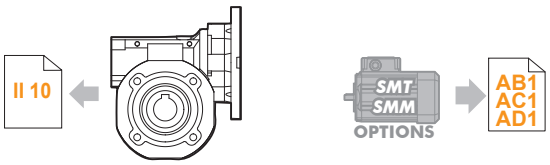
SMT...TEFC
SMM... TEFC

SMT...TENV
SMM... TENV

S3 servizio *duty* **30%**



	HX	Z
056/040	30.5	139
063/040	30.5	142



CL040

SMT	BFC	BNV	LFC	LNV
5014	□ 85	□ 80	135.5	108.5
5024			150.5	123.5
5034			175.5	148.5
5044			200.5	173.5
5624	□ 93	□ 87	141	117
5634			151	127
5644			186	162
5654			206	182
6324	□ 105	□ 97	165.5	138.5
6334			180.5	153.5
6344			205.5	178.5

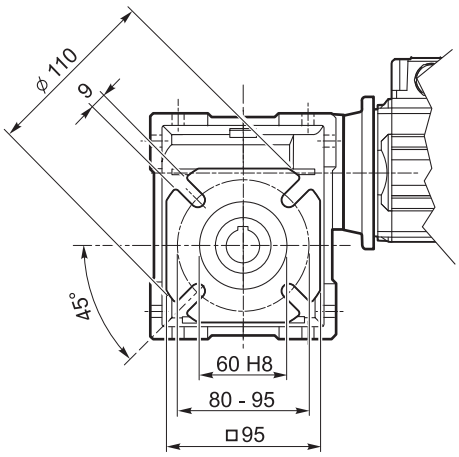
SMM	BFC	BNV	LFC	LNV
5014	□ 85	□ 80	150.5	123.5
5024			175.5	148.5
5034			200.5	173.5
5624	□ 93	□ 87	151	127
5634			186	162
5644			206	182
6324	□ 105	□ 97	180.5	153.5
6334			205.5	178.5

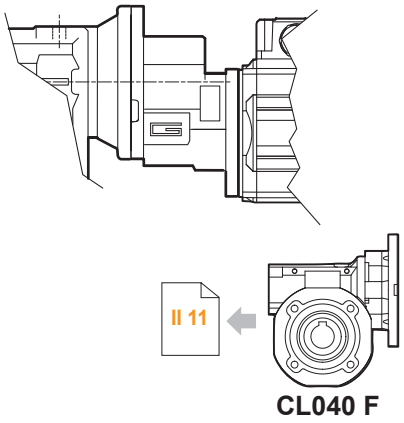
Nota: il condensatore sarà fornito a corredo
Note: *the capacitor will be supplied separately*

Dimensioni — *Dimensions*

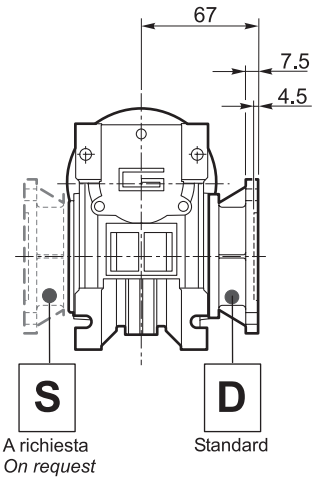
CM 040 ... - F

CMP .../040 ... - F



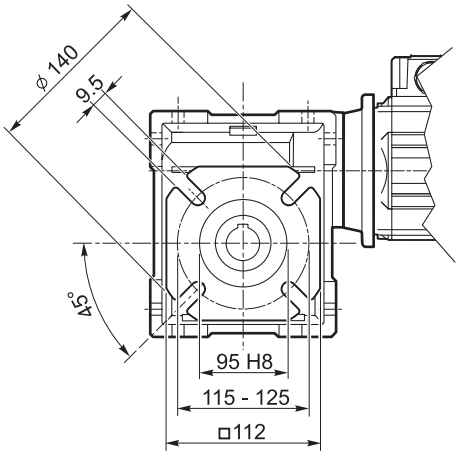


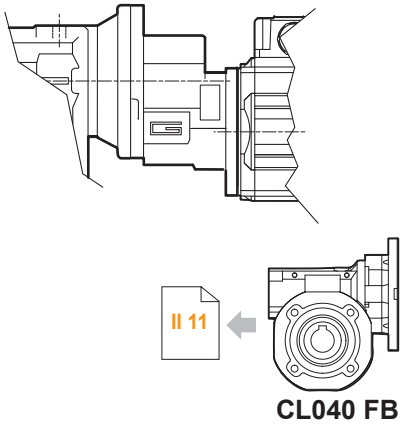
CL040 F



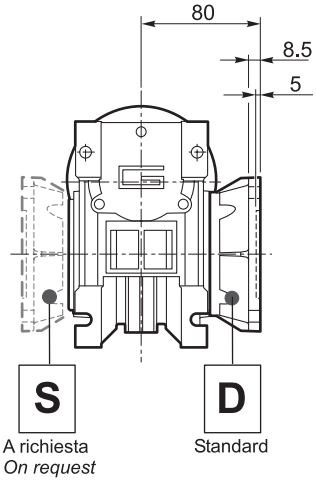
CM 040 ... - FB

CMP .../040 ... - FB



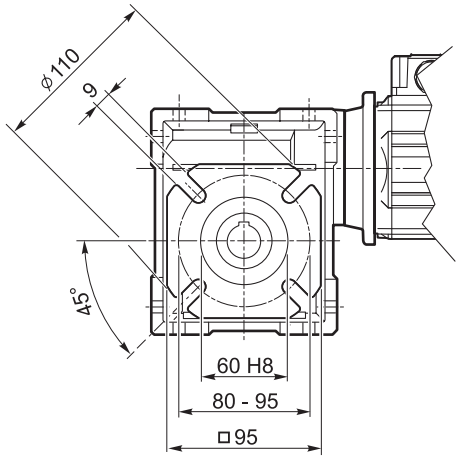


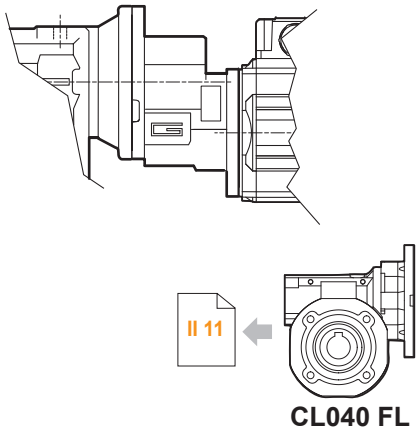
CL040 FB



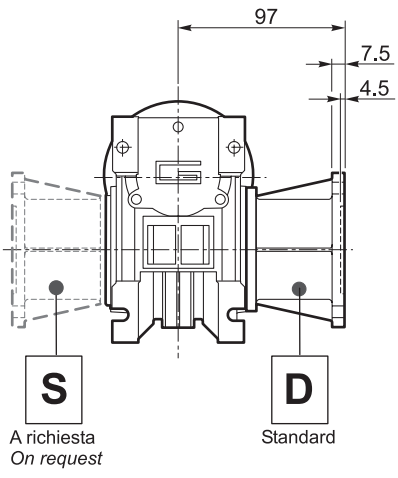
CM 040 ... - FL

CMP .../040 ... - FL





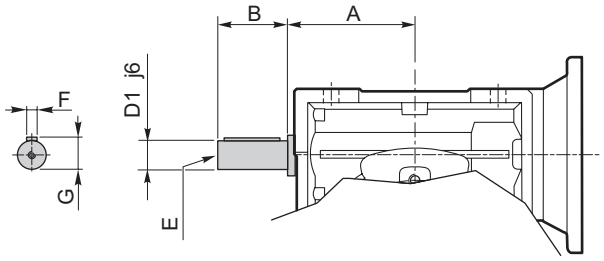
CL040 FL



AC

Opzioni / *Options*

VS - Vite sporgente / *Extended input shaft*

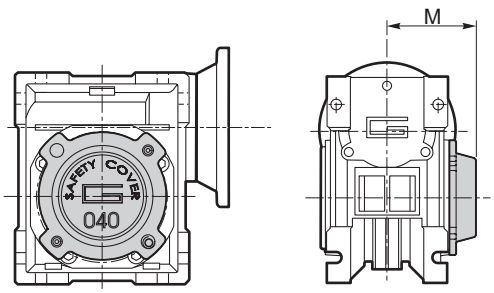


CM	CMP	A	B	D_1 j6	E	F	G
030	056/030	45	20	9	M4	3	10.2
040	056/040 063/040	53	23	11	M5	4	12.5

Costruito su richiesta
Built on request

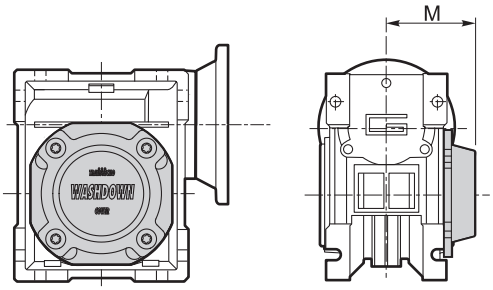
Accessori / *Accessories*

SC - *Safety cover*



CM	CMP	M
030	056/030	47
040	056/040 063/040	54.5

WD - *Kit washdown cover*

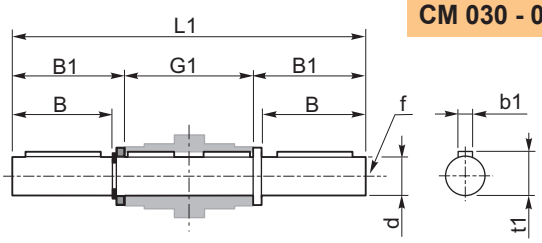


CM	CMP	M
030	056/030	48
040	056/040 063/040	55.5

Accessori — *Accessories*

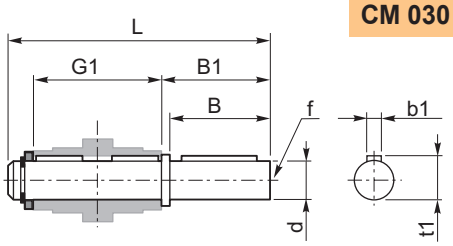
Albero lento — *Output shaft*

CM 030 - 040



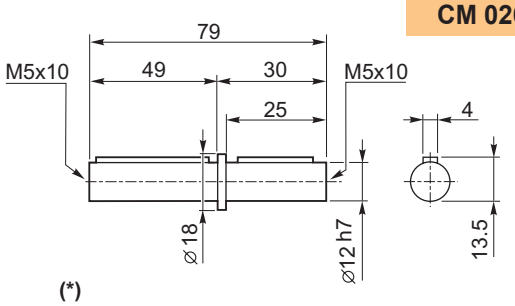
SZ

CM 030 - 040



CM	CMP	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

CM 026 (*)

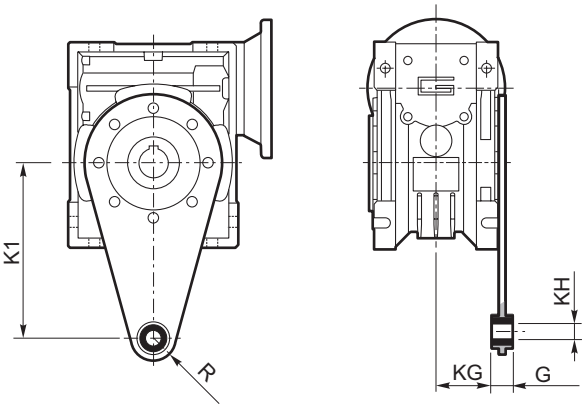


(*)
Nota: disponibile solo per cavo uscita Ø12
Note: *available for output hollow shaft Ø12 only*

Braccio di reazione — *Torque arm*

CM	CMP	K1	G	KG	KH	R
030	056/030	85	14	23	8	15
040	056/040 063/040	100	14	31	10	18

DZ



Note / *Notes*

MINI TECNO™

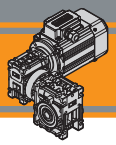
small but strong

CMM

AC

Motoriduttori CA combinati a vite senza fine
AC Double reduction wormgearmotors

MINI TECNO™ brand of TRANSTECNO®



Caratteristiche tecniche

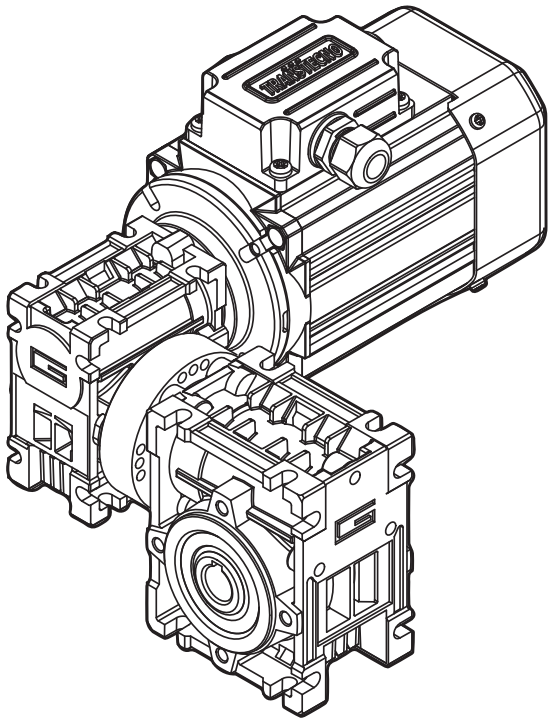
Le caratteristiche principali dei motoriduttori CMM sono:

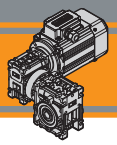
- Costruzione compatta
- Motorizzazioni in corrente alternata monofase e trifase
- Carcassa motore estrusa in alluminio anodizzato nero
- Carcasse dei riduttori in pressofusione di alluminio
- Motore elettrico AC con grado di protezione IP66
- Lubrificazione permanente con olio sintetico
- Disponibili sia nella versione ventilata TEFC (servizio S1) che non ventilata TENV (servizio S3)
- Protezione termica PTO 150°C per le taglie motore 56 e 63.
- SMT56 e SMT63 adatti al funzionamento con alimentazione da inverter
- Disponibili nelle versioni autofrenante, servoventilata e con certificazione UL.

Technical features

CMM gearmotors range has the following main features:

- *Compact design*
- *AC single phase and three phase motors available*
- *Motor extruded aluminum housing black anodized*
- *Gearbox die-cast aluminum housing*
- *AC electric motor in IP66 protection Standard*
- *Permanent synthetic oil long-life lubrication*
- *Fan cooled TEFC (duty S1) and not ventilated TENV (duty S3) versions available*
- *PTO 150°C thermal protection for motor sizes 56 and 63.*
- *SMT56 and SMT63 are suitable for inverter duty*
- *Brake motors, forced ventilation motors and UL compliance versions available.*





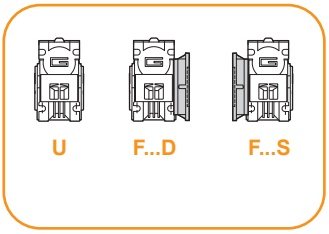
Designazione — *Classification*

RIDUTTORE / *GEARBOX*

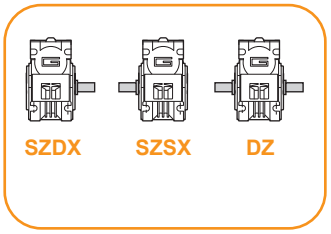
CMM	030/040	FD	150	63	B5	SZDX	BRSX	90	US1	VS
Tipo *Type*	Grandezza *Size*	Versione *Version*	Rapporto *Ratio*	IEC	Forma costruttiva Version	Albero di uscita *Output shaft*	Braccio di reazione *Torque arm*	Angolo *Angle*	*Esecuzione di montaggio Mounting execution*	Opzioni *Options*
CMM	**026/026** **026/026 (D11)** **026/026 (D14)** **026/030** **026/040** **030/040**	**U** **F...**	vedi tabelle *see tables*	**56..** **63..**	**B5** **B14**	**SZDX** **SZSX** **DZ**	**BRDX** **BRSX** (*)	**0°** **90°** **180°** **270°**	**UB1** **UB2** **US1** **US2** **UV1** **UV2** **UC1** **UC2**	**VS1** **VS2**

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

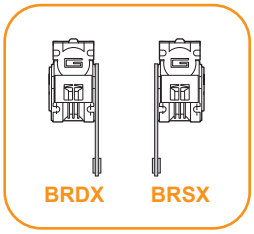
Versione Riduttore *Gearbox Version*



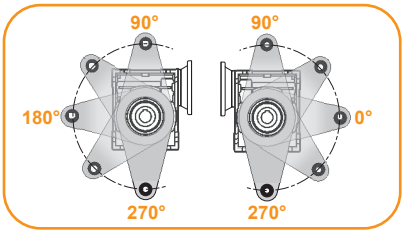
Albero di uscita *Output shaft*



Braccio di reazione (*) *Torque arm*



Angolo *Angle*



MOTORE TRIFASE / *THREE PHASE MOTOR*

SMT	63	2	4	0.18 kW	B14	230-400 V	50 Hz	TEFC	BR	T1
Tipo *Type*	Grandezza *Size*	Indicativo potenza *Power coefficient*	Poli *Poles*	Potenza *Power*	Forma costruttiva *Version*	Tensione *Voltage*	Frequenza *Frequency*	*Ventilazione Fan cooling*	*Opzioni Options*	Pos. Morsettiera *Terminal box pos.*
SMT	Vedere tab. *See tab.*	**1-2-3-4**	**4**	**0.04 kW** ... **0.25 kW**	**B14**	**230-400 V** **460V**	**50Hz** **60Hz**	**TEFC** **TENV**	**AB1** **AC1** **AD1**	**T1** (Std) **T4** **T2** **T3**

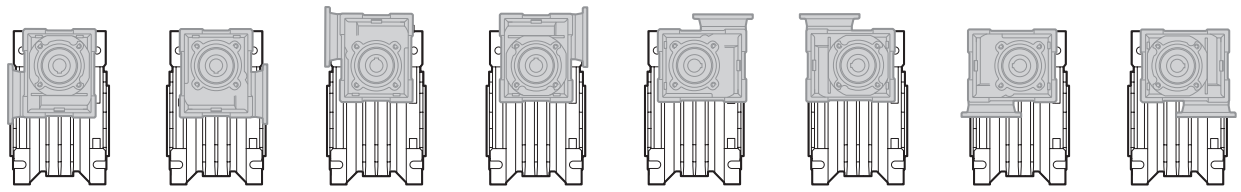
MOTORE MONOFASE / *SINGLE PHASE MOTOR*

SMM	63	2	4	0.18 kW	B14	230 V	50 Hz	TEFC	UL-CSA	T1
Tipo *Type*	Grandezza *Size*	Indicativo potenza *Power coefficient*	Poli *Poles*	Potenza *Power*	Forma costruttiva *Version*	Tensione *Voltage*	Frequenza *Frequency*	*Ventilazione Fan cooling*	*Opzioni Options*	Pos. Morsettiera *Terminal box pos.*
SMM	Vedere tab. *See tab.*	**1-2-3-4**	**4**	**0.04 kW** ... **0.25 kW**	**B14**	**230V**	**50Hz**	**TEFC** **TENV**	**AD1**	**T1** (Std) **T4** **T2** **T3**

Simbologia — *Symbols*

n_1	[min^{-1}]	Velocità in ingresso / *Input speed*	M_2	[Nm]	Coppia in uscita in funzione di P_1 / *Output torque referred to P_1*
n_2	[min^{-1}]	Velocità in uscita / *Output speed*	sf		Fattore di servizio / *Service factor*
i		Rapporto di riduzione / *Ratio*	R_2	[N]	Carico radiale ammissibile in uscita / *Permitted output radial load*
P_1	[kW]	Potenza in entrata / *Input power*	A_2	N]	Carico assiale ammissibile in uscita / *Permitted output axial load*

Esecuzioni di montaggio — *Mounting executions*



UB1 UB2 US1 US2 UV1 UV2 UC1 UC2

Combinazioni rapporti — *Combination ratio*

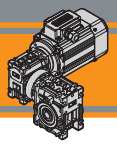
CMM 026/026 - CMM 026/030 - CMM 026/040												
	i (i_1 x i_2)											
	150	**225**	**300**	**450**	**600**	**900**	**1200**	**1500**	**1800**	**2400**	**3000**	**3600**
i_1	10	15	10	15	20	30	40	50	60	60	60	60
i_2	15	15	30	30	30	30	30	30	30	40	50	60

CMM 030/040													
	i (i_1 x i_2)												
	150	**200**	**250**	**300**	**400**	**500**	**600**	**750**	**900**	**1200**	**1500**	**1800**	**2400**	**3000**
i_1	10	10	10	10	10	10	20	25	30	40	50	60	60	60
i_2	15	20	25	30	40	50	30	30	30	30	30	30	40	50

Lubrificazione — *Lubrication*

Tutti i motoriduttori nelle taglie 26, 30, 40 sono forniti completi di lubrificante sintetico viscosità 320, pertanto possono essere installati in qualunque posizione di monatggio e non necessitano di manutenzione.

Permanent synthetic oil long-life lubrication (viscosity grade 320) makes it possible to use the gearmotors size 26, 30, 40 in all mounting positions; for this reason they can be installed in any assembly position and do not require maintenance.



Dati tecnici — *Technical data*

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i	
0.04					
SMT5014	**9.3**	23	1.1	150	**CMM 026/026**
SMM5014	**6.2**	32	0.8	225	
(1400 min^{-1})	**4.7**	34	0.8	300	
	3.1	34	0.8	450	
SMT SMM	**2.3**	34	0.8	600	
	1.6	34	0.8	900	
	1.2	34	0.8	1200	
	0.9	34	0.8	1500	
	0.8	34	0.8	1800	
	0.6	28	0.8	2400	
	0.5	25	0.8	3000	
	0.4	23	0.8	3600	
	9.3	23	1.7	150	**CMM 026/030**
	6.2	32	1.2	225	
	4.7	37	1.1	300	
	3.1	50	0.8	450	
	2.3	50	0.8	600	
	1.6	50	0.8	900	
	1.2	50	0.8	1200	
	0.9	50	0.8	1500	
	0.8	50	0.8	1800	
	0.6	43	0.8	2400	
	0.5	38	0.8	3000	
	0.4	34	0.8	3600	
	9.3	23	3.7	150	**CMM 026/040**
	6.2	33	2.6	225	
	4.7	39	2.3	300	
	3.1	55	1.6	450	
	2.3	69	1.3	600	
	1.6	92	1.0	900	
	1.2	113	0.8	1200	
	0.9	113	0.8	1500	
	0.8	113	0.8	1800	
	0.6	93	0.8	2400	
	0.5	85	0.8	3000	
	0.4	78	0.8	3600	
	9.3	24	3.7	150	**CMM 030/040**
	7.0	31	2.4	200	
	5.6	37	1.8	250	
	4.7	39	2.3	300	
	3.5	48	1.6	400	
	2.8	54	1.3	500	
	2.3	70	1.3	600	
	1.9	84	1.1	750	
	1.6	94	1.0	900	
	1.2	113	0.8	1200	
	0.9	113	0.8	1500	
	0.8	113	0.8	1800	
	0.6	93	0.8	2400	
	0.5	85	0.8	3000	

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i	
0.06					
SMT5024	**9.3**	33	0.8	150	**CMM**
SMM5024	**6.2**	33	0.8	225	**026/026**
(1400 min^{-1})					
	9.3	34	1.1	150	**CMM**
SMT SMM	**6.2**	48	0.8	225	**026/030**
	4.7	50	0.8	300	
	9.3	35	2.5	150	**CMM**
	6.2	50	1.8	225	**026/040**
	4.7	58	1.5	300	
	3.1	82	1.1	450	
	2.3	104	0.9	600	
	1.6	113	0.8	900	
	9.3	36	2.4	150	**CMM**
	7.0	46	1.6	200	**030/040**
	5.6	55	1.2	250	
	4.7	59	1.5	300	
	3.5	72	1.0	400	
	2.8	81	0.8	500	
	2.3	105	0.9	600	
	1.9	113	0.8	750	
	1.6	113	0.8	900	
0.09					
SMT5034	**9.3**	49	0.8	150	**CMM**
SMM5034	**6.2**	49	0.8	225	**026/030**
SMT5624					
SMM5624	**9.3**	53	1.6	150	**CMM**
(1400 min^{-1})	**6.2**	74	1.2	225	**026/040**
	4.7	87	1.0	300	
SMT SMM	**3.1**	113	0.8	450	
	2.3	113	0.8	600	
	9.3	53	1.6	150	**CMM**
	7.0	69	1.1	200	**030/040**
	5.6	83	0.8	250	
	4.7	88	1.0	300	
	3.5	93	0.8	400	
	2.8	85	0.8	500	
	2.3	113	0.8	600	

Nota: Verificare sempre che la coppia M2 utilizzata non ecceda il valore indicato nelle caselle in grigio
Note: *Please check that the output torque M2 does not exceed the value into the grey areas*

IEC

Motori *Motors*	SMT		SMM	
	5014 5024 5034	5624	5014 5024 5034	5624
IEC	56 B14		56 B14	

Dati tecnici — *Technical data*

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i	
0.12					
SMT5044	**9.3**	70	1.2	150	**CMM**
SMT5634	**6.2**	99	0.9	225	**026/040**
SMM5634	**4.7**	113	0.8	300	
(1400 min^{-1})					
SMT SMM	**9.3**	71	1.2	150	**CMM**
	7.0	92	0.8	200	**030/040**
	5.6	84	0.8	250	
	4.7	113	0.8	300	
0.18					
SMT5644	**9.3**	105	0.8	150	**CMM**
SMM5644	**6.2**	109	0.8	225	**026/040**
(1400 min^{-1})					
SMT SMM	**9.3**	107	0.8	150	**CMM**
	7.0	93	0.8	200	**030/040**

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i	
0.18					
SMT6324	**9.3**	107	0.8	150	**CMM**
SMM6324	**7.0**	93	0.8	225	**030/040**
(1400 min^{-1})					
SMT SMM					
0.25					
SMT5654	**9.3**	109	0.8	150	**CMM**
SMT6334					**030/040**
SMM6334					
(1400 min^{-1})					
SMT SMM					

Nota: Verificare sempre che la coppia M2 utilizzata non ecceda il valore indicato nelle caselle in grigio
Note: *Please check that the output torque M2 does not exceed the value into the grey areas*

IEC

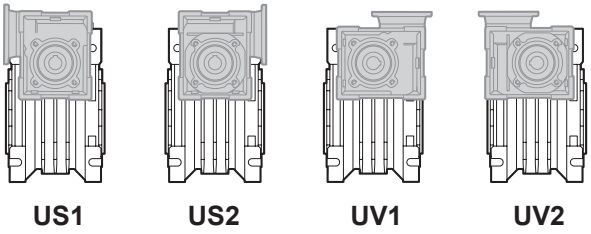
Motori *Motors*	SMT			SMM	
	5044	5644 5654	6324 6334	5634 5644	6324 6334
IEC	56 B14		63 B14	56 B14	63 B14

Dati tecnici elettrici — *Electrical technical data*

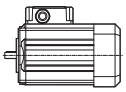
SMT SMM → AA3

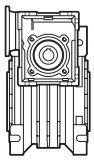
Motori applicabili

Motor adapters



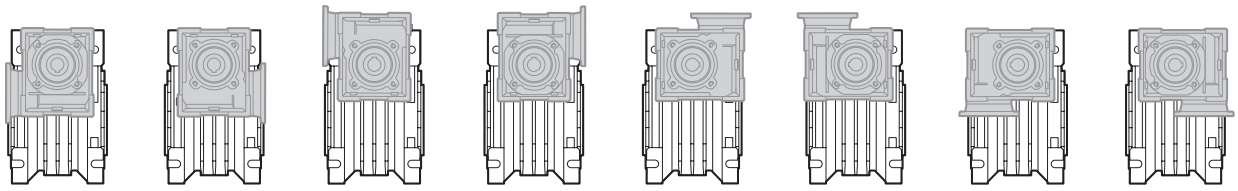
US1 US2 UV1 UV2





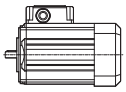
		SMT		SMM	
		5014 5024 5034 5044	5624 5634 5644 5654	5014 5024 5034	5624 5634 5644
CM	026/026	150 - 3600		150 - 3600	

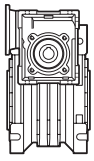
150 - 3600 Rapporti di riduzione i / *Ratio i*



UB1 UB2 US1 US2 UV1 UV2 UC1* UC2*

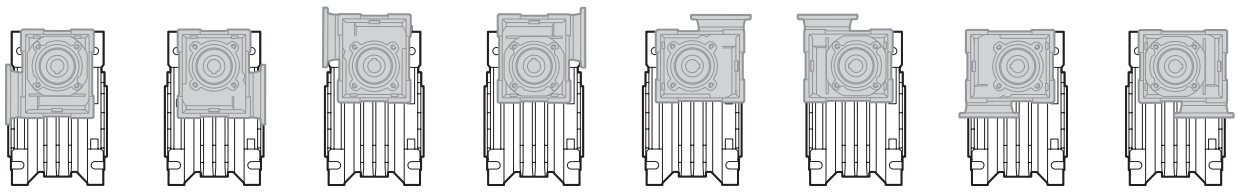
*: Solo / *only* SMT 50 - SMM50



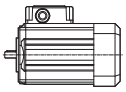


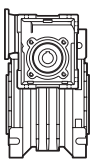
		SMT		SMM	
		5014 5024 5034 5044	5624 5634 5644 5654	5014 5024 5034	5624 5634 5644
CM	026/030	150 - 3600		150 - 3600	
	026/040				

150 - 3600 Rapporti di riduzione i / *Ratio i*



UB1 UB2 US1 US2 UV1 UV2 UC1 UC2





		SMT			SMM		
		5014 5024 5034 5044	5624 5634 5644 5654	6324 6334 6344	5014 5024 5034	5624 5634 5644	6314 6324 6334
CM	030/040	75 - 3600		75-1500	75 - 3600		75-1500

75 - 3600 Rapporti di riduzione i / *Ratio i*

AC

Dimensioni — *Dimensions*

	CMM..U - CMM..F...																
	A	C	D H8	E	F	G	G1	H	H1	I	I1	K	L	M	N h8	N1	N2
026/026 (D11)	45	70	11	83	22	47.5	50	35	34	26	26	34	42	55	45	22.5	21
026/026			12														
026/026 (D14)			14														
026/030	54	80	14	97	32	47.5	63	40	34	30	26	44	56	65	55	29	21
026/040	70	100	18	121.5	43	47.5	78	50	34	40	26	60	71	75	60	36.5	21

	CMM..U - CMM..F...													
	O	P	Q	R	R1	S	T	V	Z	KE	a	b	t	Kg
026/026 (D11)	6	—	37	49	49	5	15	21	76	7	—	4	12.8	1.6
026/026												4	13.8	
026/026 (D14)												5	16.2	
026/030	6.5	75	44	57	49	5.5	22	27	81	M6x10(n.4)	90°	5	16.3	2.4
026/040	6.5	87	55	71.5	49	6.5	26	35	91.5	M6x8(n.4)	45°	6	20.8	3.5

		CMM..F								CMM..F28								CMM..F30								CMM..F30S (1)							
	a1	KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC	KM	KN H8	KO	KP	KQ
026 (D11) 026 026 (D14)	45°	45	6	4.5	55-69	40	6.5 (n.4)	75	70	44	6.5	5	56-64	40	6.5	70	60	48	6.5	5	68	50	6.5	80	70	50	8.5	7	68	50	6.5	80	70

(1): F30S eseguita con F30 e distanziale di spessore 2 mm / *F30S made with F30 and spacer with 2mm thickness*

		CMM..F30C								CMM..F30SC (2)								CMM..F100							
	a1	KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC *	KM	KN h7	KO	KP	KQ
026 (D11) 026 026 (D14)	-	48	6.5	7	68	50	6.5	80	70	50	8.5	7	68	50	6.5	80	70	51.5	8	2 *	86	45	6.5	100	-

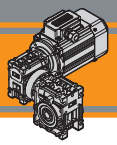
(2): F30SC eseguita con F30C e distanziale di spessore 2 mm / *F30SC made with F30C and spacer with 2mm thickness*

		CMM..F								CMM..FB								CMM..FL							
	a1	KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC	KM	KN H8	KO	KP	KQ
026/030	45°	54.5	6	4	68	50	6.5(n.4)	80	70								—								
026/040	45°	67	7.5	4.5	80-95	60	9(n.4)	110	95	80	8.5	5	115-125	95	9.5(n.4)	140	112	97	7.5	4.5	80-95	60	9(n.4)	110	95

SMT	BFC	BNV	LFC	LNV
5014	□ 85	□ 80	135.5	108.5
5024			150.5	123.5
5034			175.5	148.5
5044			200.5	173.5
5624	□ 93	□ 87	141	117
5634			151	127
5644			186	162
5654			206	182

SMM	BFC	BNV	LFC	LNV
5014	□ 85	□ 80	150.5	123.5
5024			175.5	148.5
5034			200.5	173.5
5624	□ 93	□ 87	151	127
5634			186	162
5644			206	182

Nota: il condensatore sarà fornito a corredo
Note: *the capacitor will be supplied separately*



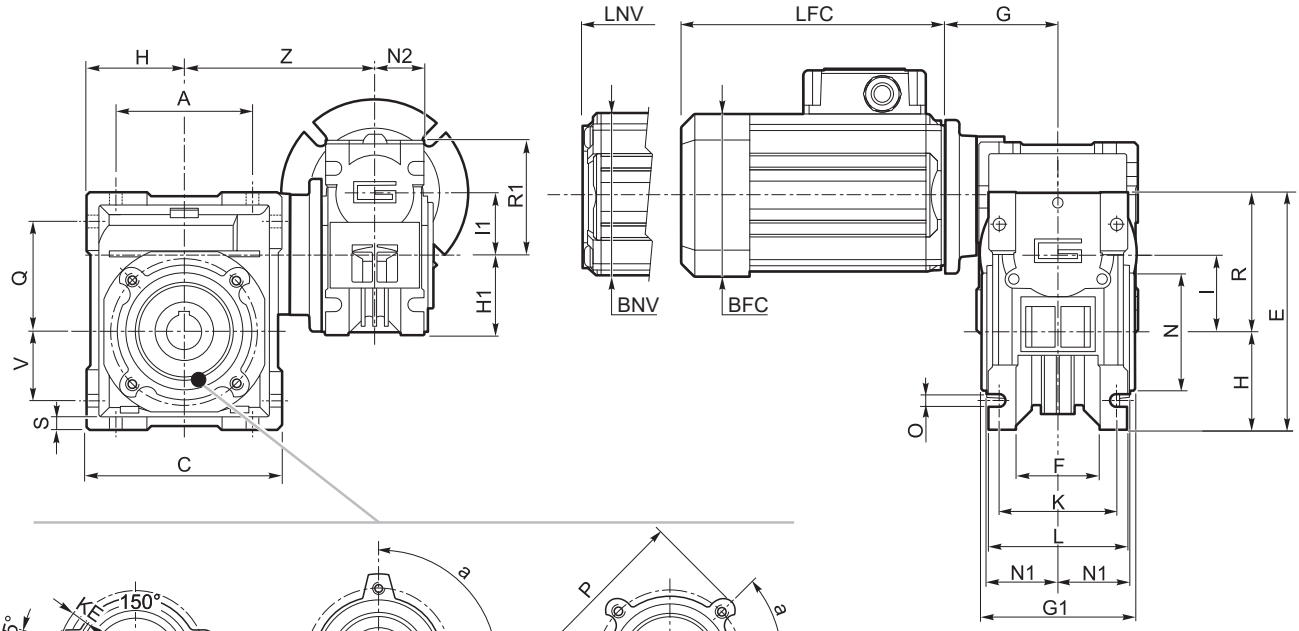
Dimensioni — *Dimensions*

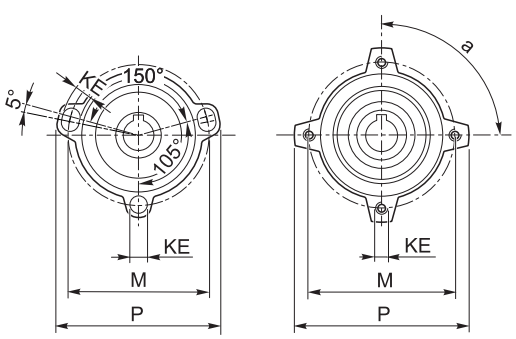
CMM 026/... U

S3 servizio *duty* **30%**

SMT...TENV
SMM... TENV

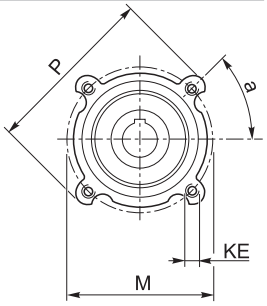
SMT...TEFC
SMM... TEFC



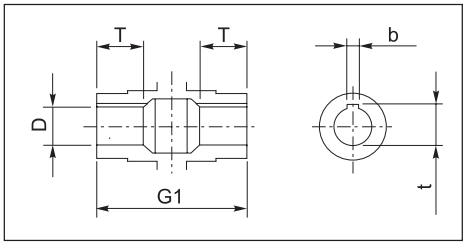


CMM 026/026

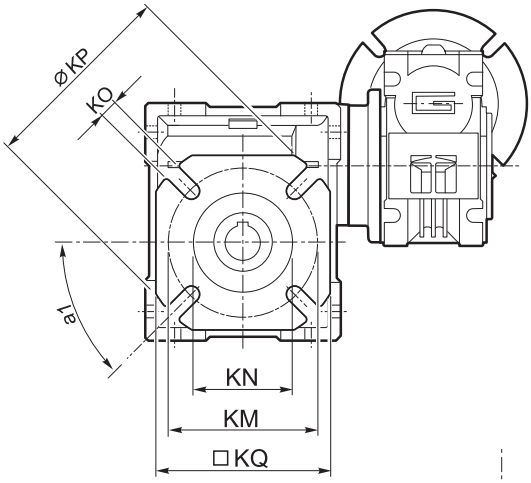
CMM 026/030

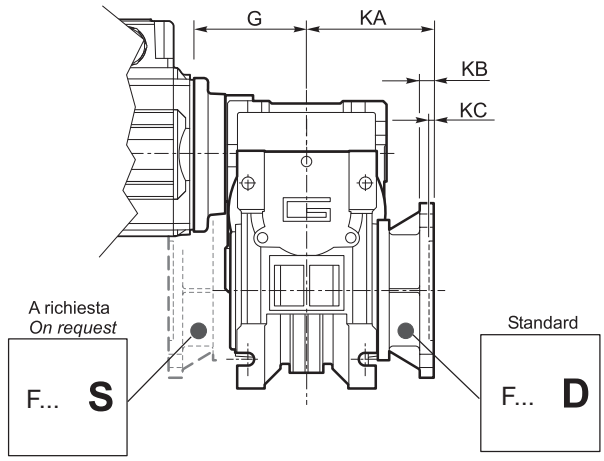


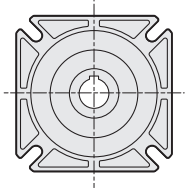
CMM 026/040



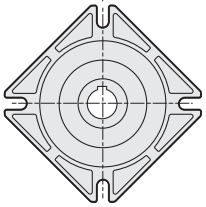
Albero lento cavo / *Hollow output shaft*



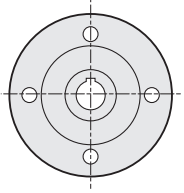




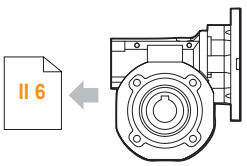
CMM026/026.. F
CMM026/026.. F28
CMM026/026.. F30
CMM026/026.. F30S
CMM026/030.. F..
CMM026/040.. F..



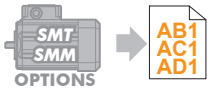
CMM026/026.. F30C
CMM026/026.. F30SC



CMM026/026.. F100



CL026
CL030
CL040



Dimensioni — *Dimensions*

	CMM.. - CMM..F - CMM..FB - CMM..FL																
	A	C	D H8	E	F	G	G1	H	H1	I	I1	K	L	M	N h8	N1	N2
030/040	70	100	18	121.5	43	55	78	50	40	40	30	60	71	75	60	36.5	29

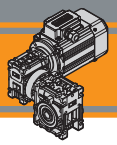
	CMM.. - CMM..F - CMM..FB - CMM..FL													
	O	P	Q	R	R1	S	T	V	Z	KE	a	b	t	Kg
030/040	6.5	87	55	71.5	57	6.5	26	35	122	M6x8(n.4)	45°	6	20.8 (21.8)	3.9

		CMM..F								CMM..FB								CMM..FL							
	a1	KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC	KM	KN H8	KO	KP	KQ
030/040	45°	67	7.5	4	80-95	60	9(n.4)	110	95	80	8.5	5	115-125	95	9.5(n.4)	140	112	97	7.5	4.5	80-95	60	9(n.4)	110	95

SMT	BFC	BNV	LFC	LNV
5014	□ 85	□ 80	135.5	108.5
5024			150.5	123.5
5034			175.5	148.5
5044			200.5	173.5
5624	□ 93	□ 87	141	117
5634			151	127
5644			186	162
5654			206	182
6324	□ 105	□ 97	165.5	138.5
6334			180.5	153.5
6344			205.5	178.5

SMM	BFC	BNV	LFC	LNV
5014	□ 85	□ 80	150.5	123.5
5024			175.5	148.5
5034			200.5	173.5
5624	□ 93	□ 87	151	127
5634			186	162
5644			206	182
6324	□ 105	□ 97	180.5	153.5
6334			205.5	178.5

Nota: il condensatore sarà fornito a corredo
Note: *the capacitor will be supplied separately*

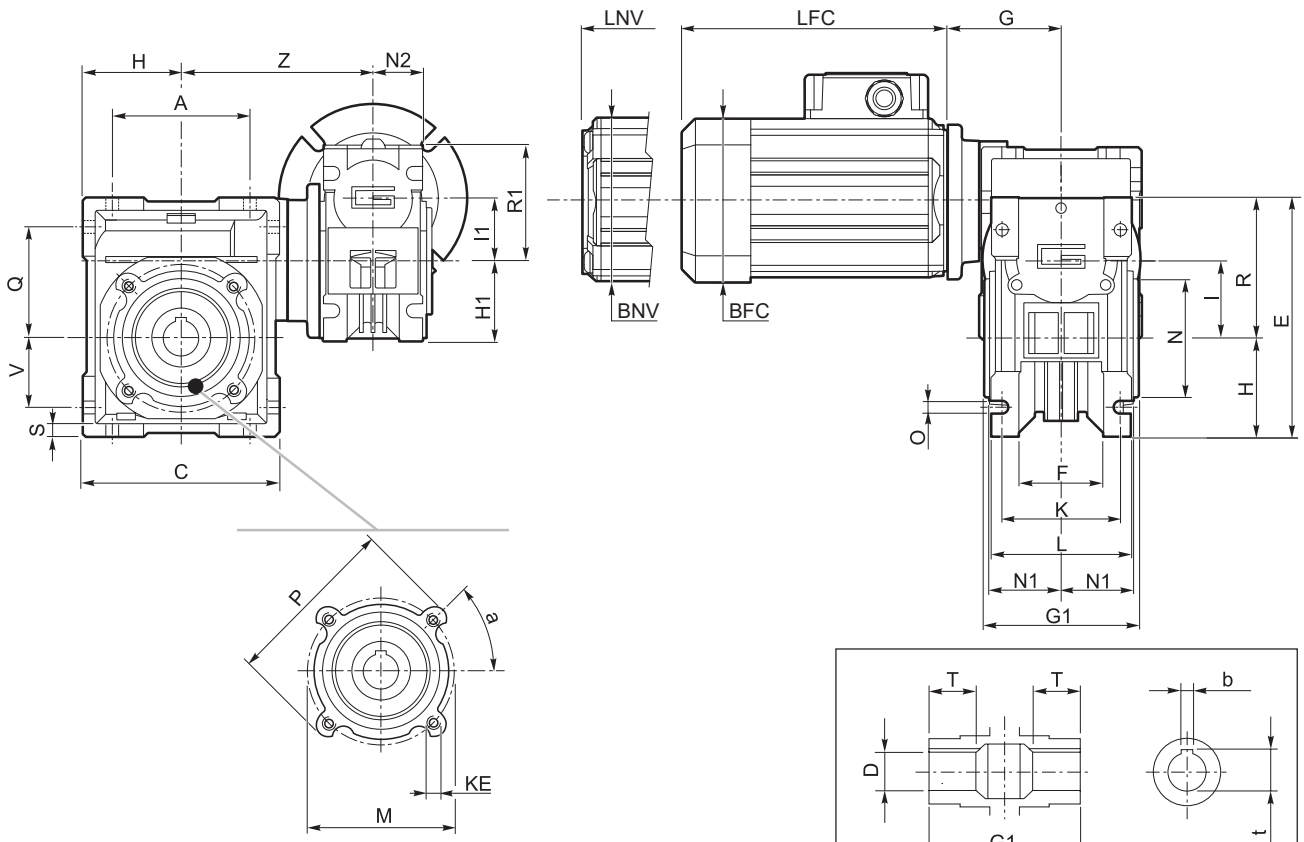


CMM 030/040 U

S3 servizio *duty* **30%**

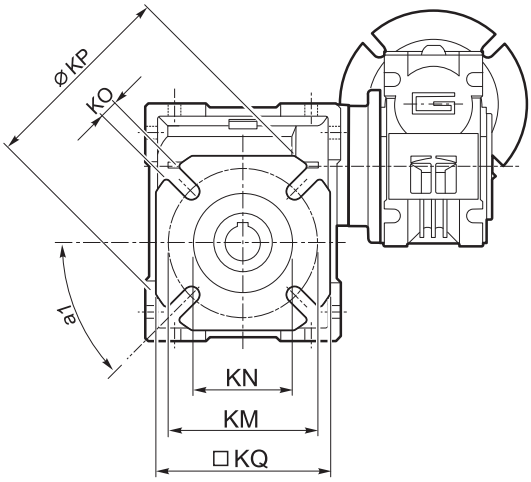
SMT...TENV
SMM... TENV

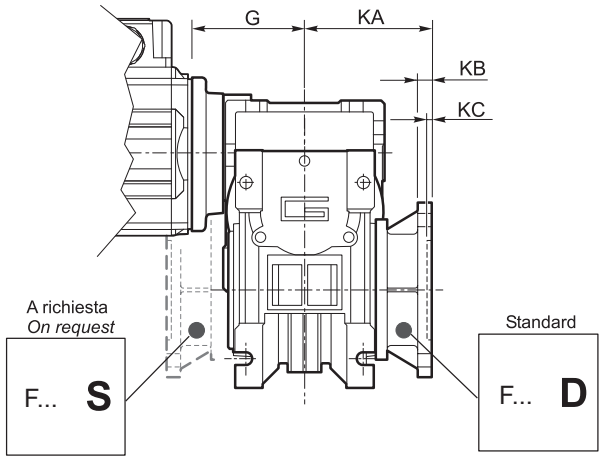
SMT...TEFC
SMM... TEFC

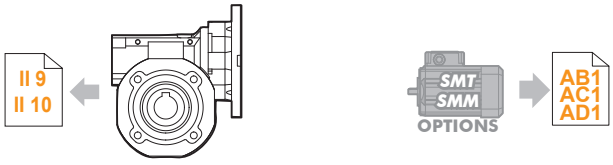


CMM 030/040

Albero lento cavo / *Hollow output shaft*





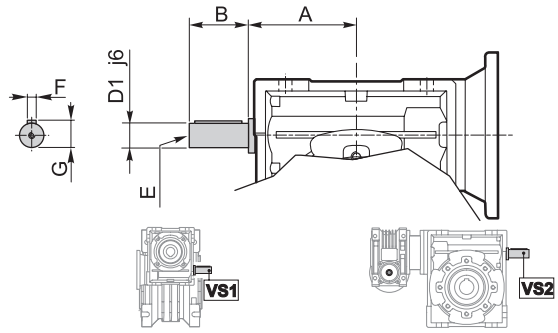


CL030
CL040

AC

Opzioni — *Options*

VS1 - VS2 - Vite sporgente / *Extended input shaft*



CMM	VS1						VS2					
	A	B	D_1 j6	E	F	G	A	B	D_1 j6	E	F	G
026/030	—	—	—	—	—	—	45	20	9	M4	3	10.2
026/040	—	—	—	—	—	—	53	23	11	M5	4	12.5
030/040	45	20	9	M4	3	10.2	53	23	11	M5	4	12.5

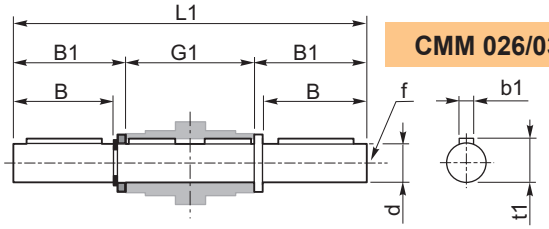
Costruito su richiesta
Built on request

Accessori — *Accessories*

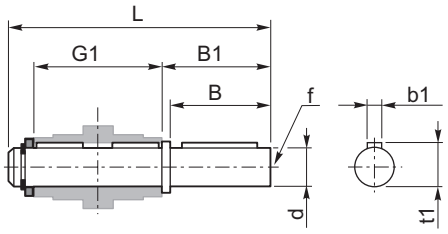
Albero lento semplice e doppio — *Single and double output shaft*

CMM 026/030 - CMM 030/040

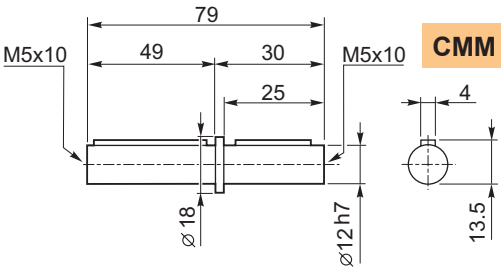
DZ



SZ



CMM 026/026 (*)

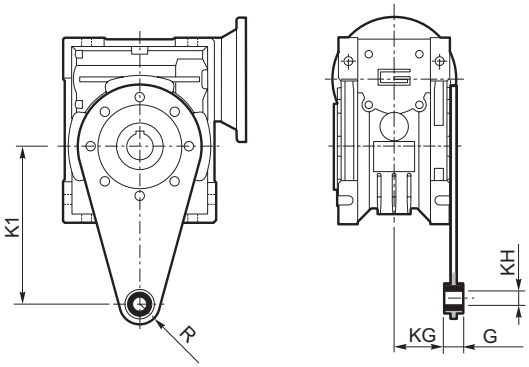


CMM	d h7	B	B1	G1	L	L1	f	b1	t1
026/030	14	30	32.5	63	102	128	M6	5	16
026/040 030/040	18	40	43	78	128	164	M6	6	20.5

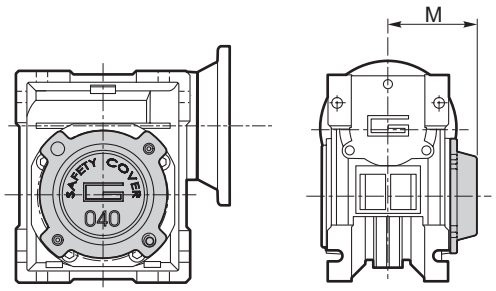
(*)
Nota: disponibile solo per cavo uscita Ø12
Note: *available for output hollow shaft Ø12 only*

Braccio di reazione — *Torque arm*

CMM	K1	G	KG	KH	R
026/030	85	14	23	8	15
026/040 030/040	100	14	31	10	18

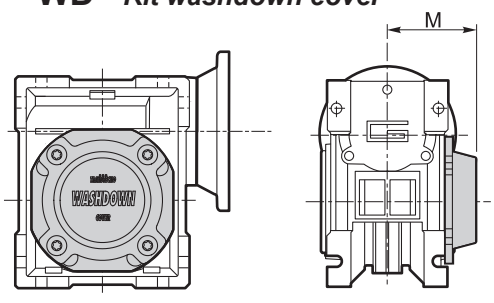


SC - *Safety cover*



	CM	
	30	40
M	47	54.5

WD - *Kit washdown cover*



	CM	
	30	40
M	48	55.5

MINI TECNO™

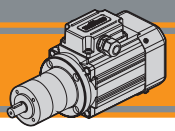
small but strong

PM

AC

Motoriduttori CA epicicloidali
AC Planetary gearmotors

MINI TECNO™ brand of TRANSTECNO®



ENERGY SAVING

Caratteristiche tecniche

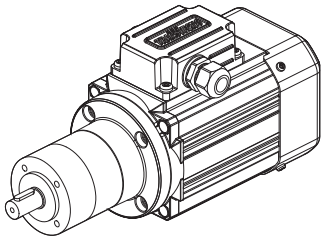
Technical features

Le caratteristiche principali dei motoriduttori PM sono:

- Costruzione compatta
- Motorizzazioni in corrente alternata monofase e trifase
- Carcassa motore estrusa in alluminio anodizzato nero
- Motore elettrico AC con grado di protezione IP66
- Disponibili sia nella versione ventilata TEFC (servizio S1) che non ventilata TENV (servizio S3)
- Protezione termica PTO 150°C per le taglie motore 56 e 63.
- SMT56 e SMT63 adatti al funzionamento con alimentazione da inverter
- Disponibili nelle versioni autofrenante, servoventilata e con certificazione UL.

PM gearmotors gearmotors have the following main features:

- *Compact design*
- *AC single phase and three phase motors available*
- *Motor extruded aluminum housing black anodized*
- *AC electric motor in IP66 protection Standard*
- *Fan cooled TEFC (duty S1) and not ventilated TENV (duty S3) versions available*
- *PTO 150°C thermal protection for motor sizes 56 and 63.*
- *SMT56 and SMT63 are suitable for inverter duty*
- *Brake motors, forced ventilation motors and UL compliance versions available.*



Designazione

Classification

RIDUTTORE / *GEARMOTOR*

PM	52	2	C80	34.97
Tipo *Type*	Grandezza *Size*	Stadi riduttore *Gearbox stages*	Versione riduttore *Gearbox Version*	Rapporto *Ratio*
PM	**52** **62**	**1** **2** **3**	**U** **C80** **C90** **C105** **C120**	Vedere tabella *See tables*

MOTORE TRIFASE / *THREE PHASE MOTOR*

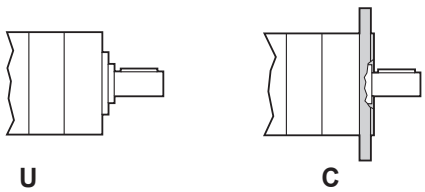
SMT	63	2	4	0.18 kW	B14	230-400 V	50 Hz	TEFC	BR	T1
Tipo *Type*	Grandezza *Size*	Indicativo potenza *Power coefficient*	Poli *Poles*	Potenza *Power*	Forma costruttiva *Version*	Tensione *Voltage*	Frequenza *Frequency*	*Ventilazione* *Fan cooling*	*Opzioni* *Options*	Pos. Morsettiera *Terminal box pos.*
SMT	Vedere tab. *See tab.*	**1-2-3-4-5**	**4**	**0.04 kW** ... **0.37 kW**	**B14**	**230-400 V** **460V**	**50Hz** **60Hz**	**TEFC** **TENV**	AB1 AC1 AD1	**T1** (Std) T4 T2 T3

MOTORE MONOFASE / *SINGLE PHASE MOTOR*

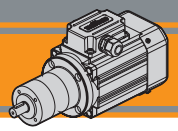
SMM	63	2	4	0.18 kW	B14	230 V	50 Hz	TEFC	UL-CSA	T1
Tipo *Type*	Grandezza *Size*	Indicativo potenza *Power coefficient*	Poli *Poles*	Potenza *Power*	Forma costruttiva *Version*	Tensione *Voltage*	Frequenza *Frequency*	*Ventilazione* *Fan cooling*	*Opzioni* *Options*	Pos. Morsettiera *Terminal box pos.*
SMM	Vedere tab. *See tab.*	**1-2-3-4**	**4**	**0.04 kW** ... **0.25 kW**	**B14**	**230V**	**50Hz**	**TEFC** **TENV**	AD1	**T1** (Std) T4 T2 T3

Versioni

Versions



U **C**



Simbologia — *Symbols*

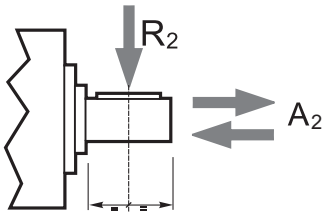
n_1	[min^{-1}]	Velocità in ingresso / *Input speed*	sf		Fattore di servizio / *Service factor*
n_2	[min^{-1}]	Velocità in uscita / *Output speed*	Rd	%	Rendimento dinamico / *Dynamic efficiency*
i		Rapporto di riduzione / *Ratio*	A_2	[N]	Carico assiale ammissibile in uscita / *Permitted output axial load*
P_1	[kW]	Potenza in entrata / *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*			

Lubrificazione — *Lubrication*

I riduttori epicicloidali sono lubrificati in modo permanente, non richiedono quindi ulteriore manutenzione.
Questo gli consente di essere installati praticamente ovunque.

Planetary gearboxes are life-time lubricated with grease, therefore they are maintenance free.
They can be installed in any location.

Carichi radiali — *Radial loads*



Numero di stadi *Stages number*	Carichi Radiali R_2 [N] / *Radial Load R_2 [N]*	
	PM52	PM62
1	200	240
2	320	360
3	450	520

Numero di stadi *Stages number*	Carichi Assiali A_2 [N] / *Axial Load A_2 [N]*	
	PM52	PM62
1	60	70
2	100	100
3	150	150

Rapporti — *Ratios*

Numero di stadi *Stages number*	Per tutte le grandezze di riduttori della serie PM *For all gearbox sizes of PM range*
	Rapporti / *Ratios*
1	**3.70**
	4.28
	5.18
	6.75
2	**13.73**
	15.88
	18.36
	19.20
	22.20
	25.01
	26.85
	28.93
	34.97
	45.56
3	50.89
	58.85
	68.06
	71.16
	78.71
	92.70
	95.17
	99.50
	107.20
	115.07
	123.97
	129.62
	139.13
	149.90
	168.84
	181.24
	195.26
	236.09
	307.54

Rapporti preferenziali per le taglie PM52, PM62.
Preferred ratios for PM52, PM62.

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

Dati tecnici — *Technical data*

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i	
0.04					
SMT5014	**378**	0.8	6.3	3.7	**PM521**
SMM5014	**327**	0.9	5.4	4.28	
(1400 min^{-1})	**270**	1.1	4.5	5.18	
	207	1.5	3.4	6.75	
SMT SMM					
	102	3	5.4	13.73	**PM522**
	88	3	4.7	15.88	
	76	4	4.0	18.36	
	73	4	3.9	19.2	
	63	5	3.3	22.2	
	56	5	3.0	25.01	
	52	5	2.8	26.85	
	48	6	2.6	28.93	
	40	7	2.1	34.97	
	31	9	1.6	45.56	
	28	10	3.3	50.89	**PM523**
	24	11	2.8	58.85	
	21	13	2.4	68.06	
	20	14	2.3	71.16	
	18	15	2.1	78.71	
	15	18	1.8	92.7	
	15	18	1.7	95.17	
	14	19	1.7	99.5	
	13	20	1.5	107.2	
	12	22	1.4	115.07	
	11	24	1.3	123.97	
	11	25	1.3	129.62	
	10	27	1.2	139.13	
	9.3	29	1.1	149.9	
	8.3	32	1.0	168.84	
	7.7	35	0.9	181.24	
	7.2	37	0.8	195.26	
	5.9	45	0.7	236.09	
	4.6	45	0.7	307.54	
	56	5	6.2	25.01	**PM622**
	52	5	5.8	26.85	
	48	6	5.3	28.93	
	40	7	4.4	34.97	
	31	9	3.4	45.56	

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i	
0.04					
SMT5014	**28**	10	6.5	50.89	**PM623**
SMM5014	**24**	11	5.6	58.85	
(1400 min^{-1})	**21**	13	4.9	68.06	
	20	14	4.7	71.16	
SMT SMM	**18**	15	4.2	78.71	
	15	18	3.6	92.7	
	15	18	3.5	95.17	
	14	19	3.3	99.5	
	13	20	3.1	107.2	
	12	22	2.9	115.07	
	11	24	2.7	123.97	
	11	25	2.6	129.62	
	10	27	2.4	139.13	
	9.3	29	2.2	149.9	
	8.3	32	2.0	168.84	
	7.7	35	1.8	181.24	
	7.2	37	1.7	195.26	
	5.9	45	1.4	236.09	
	4.6	59	1.1	307.54	
0.06					
SMT5024	**378**	1	4.2	3.7	**PM521**
SMM5024	**327**	1	3.6	4.28	
(1400 min^{-1})	**270**	2	3.0	5.18	
	207	2	2.3	6.75	
SMT SMM					
	102	4	3.6	13.73	**PM522**
	88	5	3.1	15.88	
	76	6	2.7	18.36	
	73	6	2.6	19.2	
	63	7	2.2	22.2	
	56	8	2.0	25.01	
	52	8	1.8	26.85	
	48	9	1.7	28.93	
	40	11	1.4	34.97	
	31	14	1.1	45.56	
	28	15	2.2	50.89	**PM523**
	24	17	1.9	58.85	
	21	19	1.6	68.06	
	20	20	1.6	71.16	
	18	23	1.4	78.71	
	15	27	1.2	92.7	
	15	27	1.2	95.17	
	14	29	1.1	99.5	
	13	31	1.0	107.2	
	12	33	1.0	115.07	
	11	36	0.9	123.97	
	11	37	0.9	129.62	
	10	40	0.8	139.13	
	9.3	45	0.7	149.9	
	8.3	45	0.7	168.84	
	7.7	45	0.7	181.24	
	7.2	45	0.7	195.26	

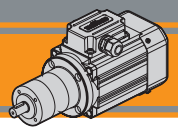
Motoriduttori preferenziali / *Preferred gearmotors*

NOTA
Per sf=0.7 verificare che la coppia utilizzata non ecceda il valore M2 indicato.

NOTE
For sf=0.7 check that the duty torque does not exceed the value M2

IEC

	SMT	SMM
Motori *Motors*	**5014** **5024**	**5014** **5024**
IEC	**56 B14**	**56 B14**



Dati tecnici / *Technical data*

0.06

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i	
SMT5024	**56**	8	4.1	25.01	**PM622**
SMM5024	**52**	8	3.8	26.85	
(1400 min^{-1})	**48**	9	3.6	28.93	
	40	11	2.9	34.97	
SMT SMM	**31**	14	2.3	45.56	
	28	15	4.3	50.89	**PM623**
	24	17	3.8	58.85	
	21	19	3.2	68.06	
	20	20	3.1	71.16	
	18	23	2.8	78.71	
	15	27	2.4	92.7	
	15	27	2.3	95.17	
	14	29	2.2	99.5	
	13	31	2.1	107.2	
	12	33	1.9	115.07	
	11	36	1.8	123.97	
	11	37	1.7	129.62	
	10	40	1.6	139.13	
	9.3	43	1.5	149.9	
	8.3	48	1.3	168.84	
	7.7	52	1.2	181.24	
	7.2	56	1.1	195.26	
	5.9	68	0.9	236.09	
	4.6	88	0.7	307.54	

0.09

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i	
SMT5034	**56**	12	2.7	25.01	**PM622**
SMM5034	**52**	12	2.6	26.85	
SMT5624	**48**	13	2.4	28.93	
SMM5624	**40**	16	2.0	34.97	
(1400 min^{-1})	**31**	21	1.5	45.56	
SMT SMM	**28**	22	2.9	50.89	**PM623**
	24	25	2.5	58.85	
	21	29	2.2	68.06	
	20	31	2.1	71.16	
	18	34	1.9	78.71	
	15	40	1.6	92.7	
	15	41	1.5	95.17	
	14	43	1.5	99.5	
	13	46	1.4	107.2	
	12	49	1.3	115.07	
	11	53	1.2	123.97	
	11	56	1.1	129.62	
	10	60	1.1	139.13	
	9.3	64	1.0	149.9	
	8.3	73	0.9	168.84	
	7.7	78	0.8	181.24	
	7.2	84	0.8	195.26	
	5.9	90	0.7	236.09	
	4.6	90	0.7	307.54	

0.09

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i	
SMT5034	**378**	2	2.8	3.7	**PM521**
SMM5034	**327**	2	2.4	4.28	
SMT5624	**270**	3	2.0	5.18	
SMM5624	**207**	3	1.5	6.75	
(1400 min^{-1})					
SMT SMM	**102**	6	2.4	13.73	**PM522**
	88	7	2.1	15.88	
	76	8	1.8	18.36	
	73	9	1.7	19.2	
	63	10	1.5	22.2	
	56	12	1.3	25.01	
	52	12	1.2	26.85	
	48	13	1.1	28.93	
	40	16	0.9	34.97	
	31	21	0.7	45.56	
	28	22	1.4	50.89	**PM523**
	24	25	1.3	58.85	
	21	29	1.1	68.06	
	20	31	1.0	71.16	
	18	34	0.9	78.71	
	15	40	0.8	92.7	
	15	41	0.8	95.17	
	14	45	0.7	99.5	
	13	45	0.7	107.2	
	12	45	0.7	115.07	
	11	45	0.7	123.97	
	11	45	0.7	129.62	
	10	45	0.7	139.13	

0.12

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i	
SMT5044	**378**	2	2.1	3.7	**PM521**
SMT5634	**327**	3	1.8	4.28	
SMM5634	**270**	3	1.5	5.18	
(1400 min^{-1})	**207**	4	1.1	6.75	
SMT SMM	**102**	8	1.8	13.73	**PM522**
	88	10	1.6	15.88	
	76	11	1.3	18.36	
	73	12	1.3	19.2	
	63	14	1.1	22.2	
	56	15	1.0	25.01	
	52	16	0.9	26.85	
	48	18	0.9	28.93	
	40	22	0.7	34.97	
	31	22	0.7	45.56	

NOTA
Per sf=0.7 verificare che la coppia utilizzata non ecceda il valore M2 indicato.

NOTE
For sf=0.7 check that the duty torque does not exceed the value M2

Motoriduttori preferenziali / *Preferred gearmotors*

IEC

Motori *Motors*	SMT		SMM	
	5014 5024 5034 5044	**5624 5634**	**5024 5034**	**5624 5634**
IEC	**56 B14**		**56 B14**	

Dati tecnici — *Technical data*

0.12

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i	
SMT5044	**28**	29	1.1	50.89	**PM523**
SMT5634	**24**	34	0.9	58.85	
SMM5634	**21**	39	0.8	68.06	
(1400 min^{-1})	**20**	41	0.8	71.16	
	18	45	0.7	78.71	
SMT SMM	**15**	45	0.7	92.7	
	15	45	0.7	95.17	
	14	45	0.7	99.5	
	13	45	0.7	107.2	
	12	45	0.7	115.07	
	11	45	0.7	123.97	
	11	45	0.7	129.62	
	10	45	0.7	139.13	
	378	2	4.2	3.7	**PM621**
	327	3	3.6	4.28	
	270	3	3.0	5.18	
	207	4	2.3	6.75	
	102	8	3.8	13.73	**PM622**
	88	10	3.2	15.88	
	76	11	2.8	18.36	
	73	12	2.7	19.2	
	63	14	2.3	22.2	
	56	15	2.1	25.01	
	52	16	1.9	26.85	
	48	18	1.8	28.93	
	40	21	1.5	34.97	
	31	28	1.1	45.56	
	28	29	2.2	50.89	**PM623**
	24	34	1.9	58.85	
	21	39	1.6	68.06	
	20	41	1.6	71.16	
	18	45	1.4	78.71	
	15	53	1.2	92.7	
	15	55	1.2	95.17	
	14	57	1.1	99.5	
	13	61	1.0	107.2	
	12	66	1.0	115.07	
	11	71	0.9	123.97	
	11	74	0.9	129.62	
	10	80	0.8	139.13	
	9.3	90	0.7	149.9	
	8.3	90	0.7	168.84	
	7.7	90	0.7	181.24	
	7.2	90	0.7	195.26	

0.18

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i	
SMT5644	**378**	4	1.4	3.7	**PM521**
SMM5644	**327**	4	1.2	4.28	
(1400 min^{-1})	**270**	5	1.0	5.18	
	207	7	0.8	6.75	
SMT SMM	**102**	13	1.2	13.73	**PM522**
	88	15	1.0	15.88	
	76	17	0.9	18.36	
	73	18	0.9	19.2	
	63	22	0.7	22.2	
	56	22	0.7	25.01	
	52	22	0.7	26.85	
	48	22	0.7	28.93	
	28	45	0.7	50.89	**PM523**
	24	45	0.7	58.85	
	21	45	0.7	68.06	
	20	45	0.7	71.16	

0.18

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i	
SMT5644	**378**	4	2.8	3.7	**PM621**
SMM5644	**327**	4	2.4	4.28	
SMT6324	**270**	5	2.0	5.18	
SMM6324	**207**	7	1.5	6.75	
(1400 min^{-1})					
SMT SMM	**102**	13	2.5	13.73	**PM622**
	88	15	2.2	15.88	
	76	17	1.9	18.36	
	73	18	1.8	19.2	
	63	20	1.5	22.2	
	56	23	1.4	25.01	
	52	25	1.3	26.85	
	48	27	1.2	28.93	
	40	32	1.0	34.97	
	31	42	0.8	45.56	
	28	44	1.4	50.89	**PM623**
	24	51	1.3	58.85	
	21	58	1.1	68.06	
	20	61	1.0	71.16	
	18	68	0.9	78.71	
	15	80	0.8	92.7	
	15	82	0.8	95.17	
	14	86	0.7	99.5	
	13	90	0.7	107.2	
	12	90	0.7	115.07	
	11	90	0.7	123.97	
	11	90	0.7	129.62	
	10	90	0.7	139.13	

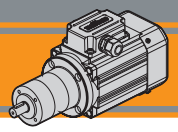
NOTA
Per sf=0.7 verificare che la coppia utilizzata non ecceda il valore M2 indicato.

NOTE
For sf=0.7 check that the duty torque does not exceed the value M2

Motoriduttori preferenziali / *Preferred gearmotors*

IEC

Motori *Motors*	SMT			SMM	
	5044	5634 5644	6324	5634 5644	6324
IEC	56 B14		63 B14		63 B14



Dati tecnici / *Technical data*

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i	
0.25					
SMT5654	**378**	4	1.4	3.7	**PM521**
(1400 min^{-1})	**327**	4	1.2	4.28	
	270	5	1.0	5.18	
SMT SMM	**207**	7	0.8	6.75	
	102	18	0.9	13.73	**PM522**
	88	20	0.7	15.88	
	76	22	0.7	18.36	
	73	22	0.7	19.2	
0.25					
SMT5654	**378**	5	2.0	3.7	**PM621**
SMT6334	**327**	6	1.7	4.28	
SMM6334	**270**	7	1.4	5.18	
(1400 min^{-1})	**207**	9	1.1	6.75	
SMT SMM	**102**	18	1.8	13.73	**PM622**
	88	20	1.6	15.88	
	76	23	1.3	18.36	
	73	25	1.3	19.2	
	63	28	1.1	22.2	
	56	32	1.0	25.01	
	52	34	0.9	26.85	
	48	37	0.9	28.93	
	40	45	0.7	34.97	
	31	45	0.7	45.56	
	28	61	1.0	50.89	**PM623**
	24	70	0.9	58.85	
	21	81	0.8	68.06	
	20	85	0.7	71.16	
	18	90	0.7	78.71	
	15	90	0.7	92.7	
	15	90	0.7	95.17	
	14	90	0.7	99.5	

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i	
0.37					
SMT6344	**378**	7	1.4	3.7	**PM621**
(1400 min^{-1})	**327**	9	1.2	4.28	
	270	10	1.0	5.18	
SMT SMM	**207**	14	0.7	6.75	
	102	26	1.2	13.73	**PM622**
	88	30	1.1	15.88	
	76	35	0.9	18.36	
	73	36	0.9	19.2	
	63	42	0.8	22.2	
	56	45	0.7	25.01	
	52	45	0.7	26.85	
	48	45	0.7	28.93	
	28	90	0.7	50.89	**PM623**
	24	90	0.7	58.85	
	21	90	0.7	68.06	
	20	90	0.7	71.16	

NOTA
Per sf=0.7 verificare che la coppia utilizzata non ecceda il valore M2 indicato.

NOTE
For sf=0.7 check that the duty torque does not exceed the value M2

Motoriduttori preferenziali / *Preferred gearmotors*

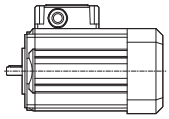
IEC

Motori *Motors*	SMT		SMM
	5654	6334 6344	6334
IEC	56 B14	63 B14	63 B14

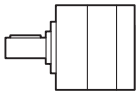
Dati tecnici elettrici / *Electrical technical data*

SMT SMM → AA3

Motori applicabili — *IEC Motor adapters*



		SMT		SMM		SMT	SMM
		5014 5024 5034 5044	5624 5634 5644 5654	5014 5024 5034	5624 5634 5644	6324 6334 6344	6324 6334
PM	52...						
	62...						



Flangia di combinaizone
Combination flange

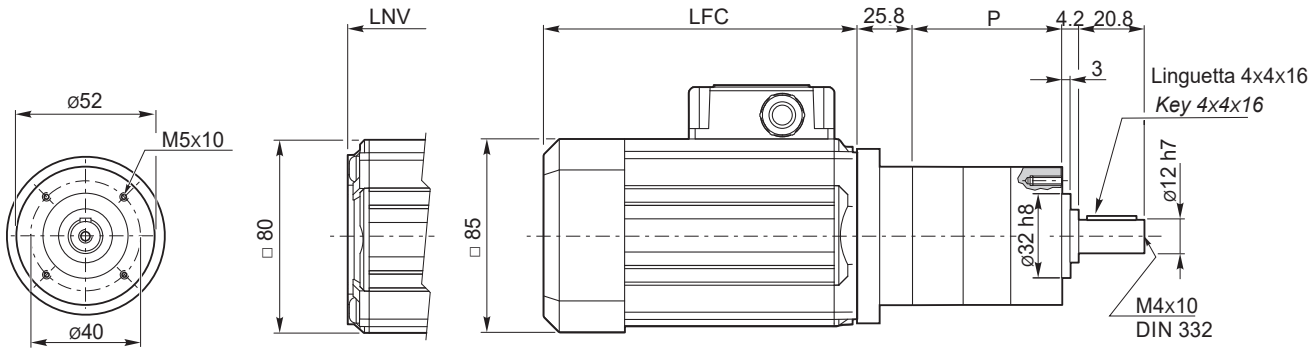
Dimensioni — *Dimensions*

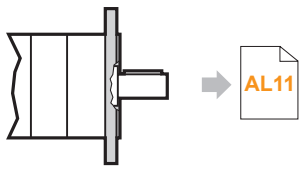
PM52 ... U

S3 servizio *duty* **30%**

SMT50...TENV
SMM50... TENV

SMT50...TEFC
SMM50... TEFC





PM52...C

Tipo *Type*	Numero di stadi *Stages number*	P
PM52...	1	47.2
	2	61.3
	3	75.6

SMT	LFC	LNV	Kg
5014	135.5	108.5	3.4
5024	150.5	123.5	3.8
5034	175.5	148.5	4.6
5044	200.5	173.5	5.3

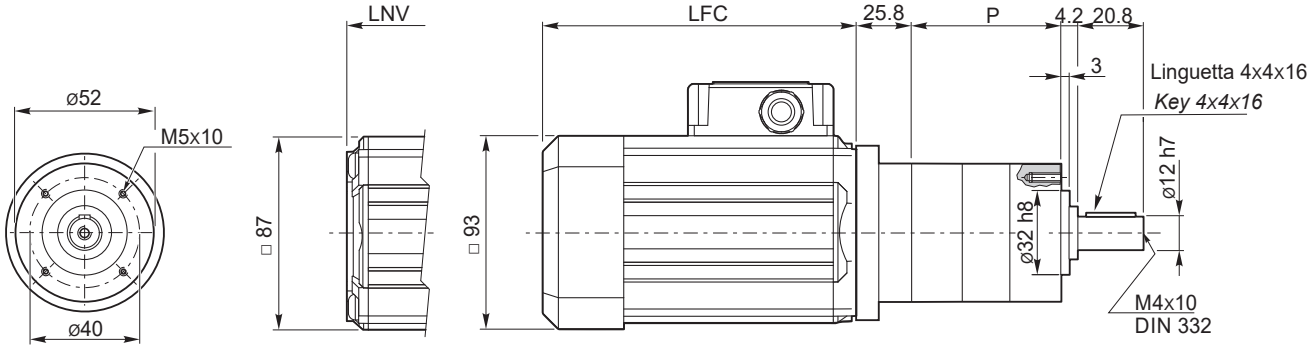
SMM	LFC	LNV	Kg
5014	150.5	123.5	3.8
5024	175.5	148.5	4.6
5034	200.5	173.5	5.3

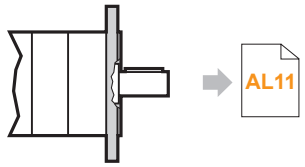
Nota: il condensatore sarà fornito a corredo
Note: *the capacitor will be supplied separately*

Dimensioni — *Dimensions*

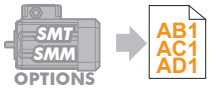
PM52 ... U

S3 servizio *duty* **30%** **SMT56...TENV** **SMM56... TENV** **SMT56...TEFC** **SMM56... TEFC**





PM52...C



Tipo *Type*	Numero di stadi *Stages number*	P
PM52...	1	47.2
	2	61.3
	3	75.6

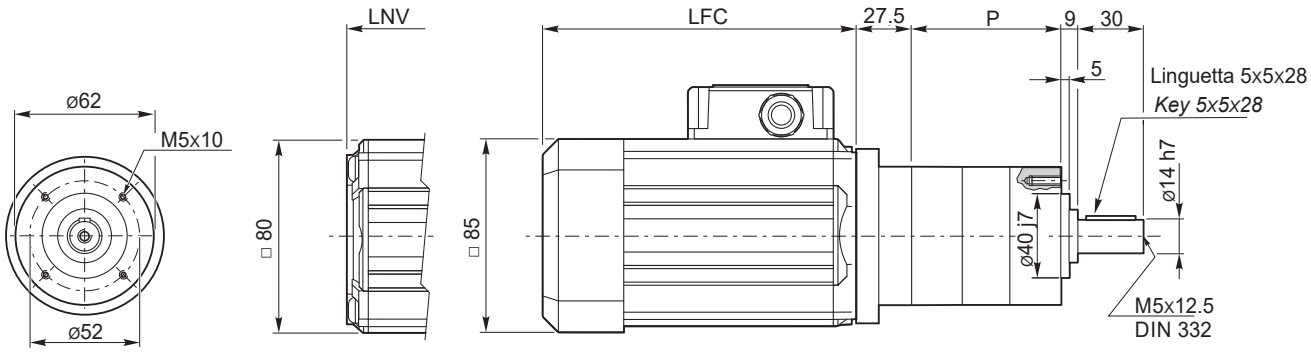
SMT	LFC	LNV	Kg
5624	141	117	3.9
5634	151	127	4.3
5644	186	162	5.5
5654	206	182	6.2

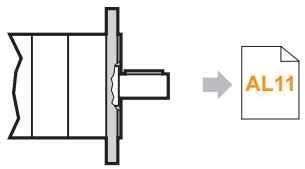
SMM	LFC	LNV	Kg
5624	151	127	4.2
5634	171	147	4.8
5644	206	182	6.1

Nota: il condensatore sarà fornito a corredo
Note: *the capacitor will be supplied separately*

PM62 ... U

S3 servizio *duty* **30%** **SMT50...TENV** **SMM50... TENV** **SMT50...TEFC** **SMM50... TEFC**





PM62...C

Tipo *Type*	Numero di stadi *Stages number*	P
PM62...	1	45.3
	2	62.2
	3	79.2

SMT	LFC	LNV	Kg
5014	135.5	108.5	3.9
5024	150.5	123.5	4.3
5034	175.5	148.5	5.1
5044	200.5	173.5	5.8

SMM	LFC	LNV	Kg
5014	150.5	123.5	4.3
5024	175.5	148.5	5.1
5034	200.5	173.5	5.8

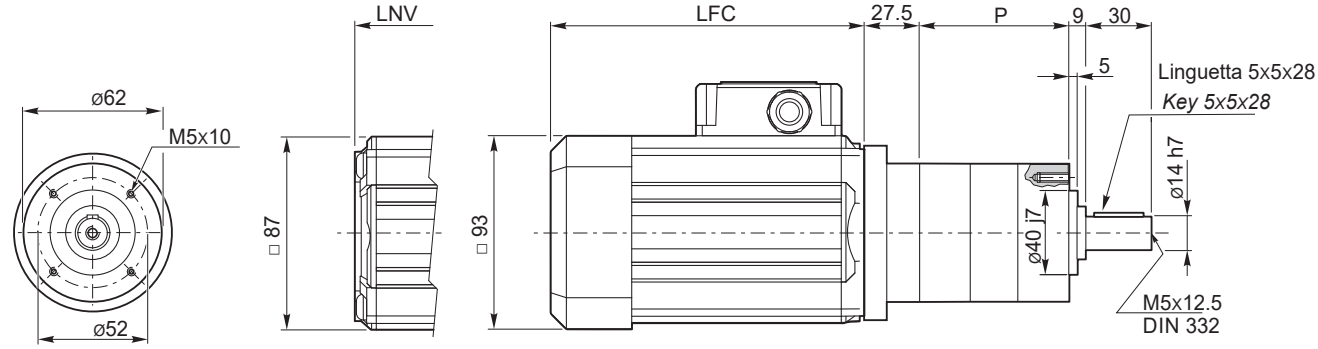
Nota: il condensatore sarà fornito a corredo
Note: *the capacitor will be supplied separately*

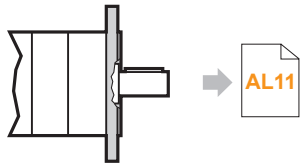
AC

Dimensioni — *Dimensions*

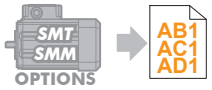
PM62 ... U

S3 servizio *duty* **30%** **SMT56...TENV** **SMM56... TENV** **SMT56...TEFC** **SMM56... TEFC**





PM62...C



Tipo *Type*	Numero di stadi *Stages number*	P
PM62...	1	45.3
	2	62.2
	3	79.2

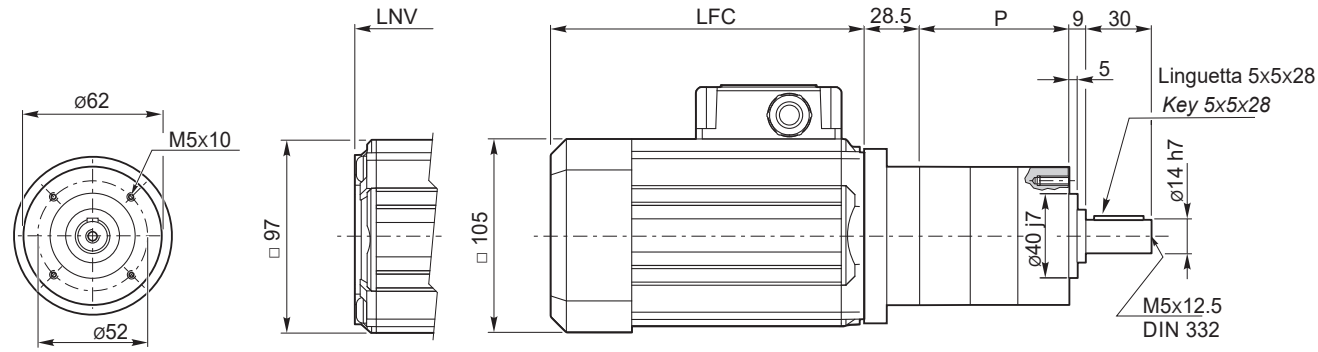
SMT	LFC	LNV	Kg
5624	141	117	4.4
5634	151	127	4.8
5644	186	162	6
5654	206	182	6.7

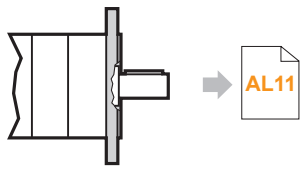
SMM	LFC	LNV	Kg
5624	151	127	4.7
5634	171	147	5.3
5644	206	182	6.6

Nota: il condensatore sarà fornito a corredo
Note: *the capacitor will be supplied separately*

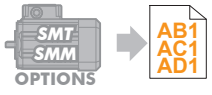
PM62 ... U

S3 servizio *duty* **30%** **SMT63...TENV** **SMM63... TENV** **SMT63...TEFC** **SMM63... TEFC**





PM62...C

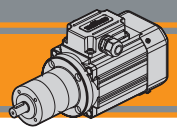


Tipo *Type*	Numero di stadi *Stages number*	P
PM62...	1	45.3
	2	62.2
	3	79.2

SMT	LFC	LNV	Kg
6324	165.5	138.5	5.9
6334	180.5	153.5	6.6
6344	205.5	178.5	7.8

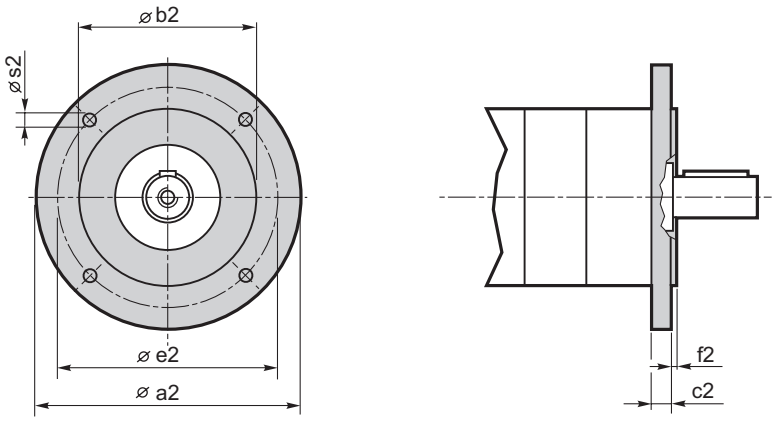
SMM	LFC	LNV	Kg
6324	180.5	153.5	6.7
6334	205.5	178.5	7.9

Nota: il condensatore sarà fornito a corredo
Note: *the capacitor will be supplied separately*



Dimensioni — *Dimensions*

PM.../... C... Flange uscita / *Output flanges*



	Dimensioni / *Dimensions*						
PM	**a2**	**b2**	**c2**	**e2**	**f2**	**s2**	**Flangia uscita** *Output flange*
52	80	50 j7	9	65	2.5	M5	**C80**
	90	60 j7	9	75	2.5	5.5	**C90**
	105	70 j7	9	85	2.5	6.5	**C105**
	120	80 j7	9	100	3.0	6.5	**C120**
62	80	50 j7	9	65	2.5	M5	**C80**
	90	60 j7	9	75	2.5	5.5	**C90**
	105	70 j7	9	85	2.5	6.5	**C105**
	120	80 j7	9	100	3.0	6.5	**C120**

Note / *Notes*

MINI TECNO™

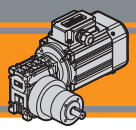
small but strong

WMP

AC

Motoriduttori CA combinati
AC Double reduction gearmotors

MINI TECNO™ brand of TRANSTECNO®



ENERGY SAVING

Caratteristiche tecniche

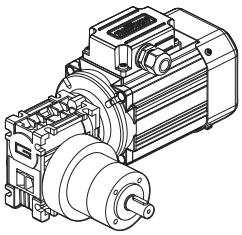
Technical features

Le caratteristiche principali dei motoriduttori WMP sono:

- Costruzione compatta
- Motorizzazioni in corrente alternata monofase e trifase
- Carcassa motore estrusa in alluminio anodizzato nero
- Motore elettrico AC con grado di protezione IP66
- Disponibili sia nella versione ventilata TEFC (servizio S1) che non ventilata TENV (servizio S3)
- Protezione termica PTO 150°C per le taglie motore 56.
- SMT56 adatto al funzionamento con alimentazione da inverter
- Disponibili nelle versioni autofrenante, servoventilata e con certificazione UL.

WMP gearmotors gearmotors have the following main features:

- *Compact design*
- *AC single phase and three phase motors available*
- *Motor extruded aluminum housing black anodized*
- *AC electric motor in IP66 protection Standard*
- *Fan cooled TEFC (duty S1) and not ventilated TENV (duty S3) versions available*
- *PTO 150°C thermal protection for motor sizes 56.*
- *SMT56 is suitable for inverter duty*
- *Brake motors, forced ventilation motors and UL compliance versions available.*



Designazione

Classification

RIDUTTORE / *GEARMOTOR*

WMP	026/52	2	C	202.5	56 B14
Tipo *Type* **WMP**	Grandezza *Size* **026/52** **026/62**	Numero stadi epicicloidale *Planetary stages number* **1** **2** **3**	Versione riduttore *Gearbox Version* **US** **UD** **CS80...120** **CD80...120**	Rapporto *Ratio* Vedere tabella *See tables*	IEC **56 B14**

MOTORE TRIFASE / *THREE PHASE MOTOR*

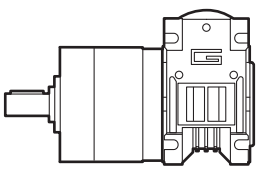
SMT	56	3	4	0.12 kW	B14	230-400 V	50 Hz	TEFC	T1
Tipo *Type* **SMT**	Grandezza *Size* Vedere tab. *See tab.*	Indicativo potenza *Power coefficient* **1-2-3-4**	Poli *Poles* **4**	Potenza *Power* **0.04 kW** **...** **0.18 kW**	Forma costruttiva *Version* **B14**	Tensione *Voltage* **230-400 V** **460V**	Frequenza *Frequency* **50Hz** **60Hz**	*Ventilazione* *Fan cooling* **TEFC** AB1 AC1 AD1 **TENV**	Pos. Morsettiera *Terminal box pos.* **T1** (Std) **T4** **T2** **T3**

MOTORE MONOFASE / *SINGLE PHASE MOTOR*

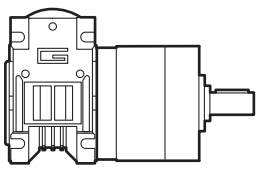
SMM	56	3	4	0.12 kW	B14	230 V	50 Hz	TEFC	T1
Tipo *Type* **SMM**	Grandezza *Size* Vedere tab. *See tab.*	Indicativo potenza *Power coefficient* **1-2-3**	Poli *Poles* **4**	Potenza *Power* **0.04 kW** **...** **0.18 kW**	Forma costruttiva *Version* **B14**	Tensione *Voltage* **230V**	Frequenza *Frequency* **50Hz**	*Ventilazione* *Fan cooling* **TEFC** **TENV**	Pos. Morsettiera *Terminal box pos.* **T1** (Std) **T4** **T2** **T3**

Versioni

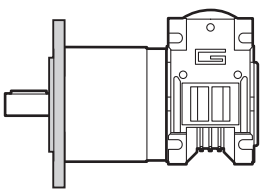
Versions



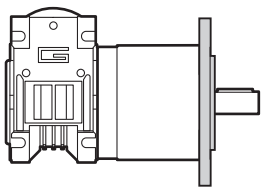
US



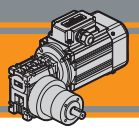
UD



CS



CD



Simbologia / *Symbols*

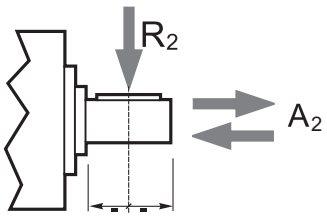
n_1	[min^{-1}]	Velocità in ingresso / *Input speed*	sf		Fattore di servizio / *Service factor*
n_2	[min^{-1}]	Velocità in uscita / *Output speed*	Rd	%	Rendimento dinamico / *Dynamic efficiency*
i		Rapporto di riduzione / *Ratio*	A_2	[N]	Carico assiale ammissibile in uscita / *Permitted output axial load*
P_1	[kW]	Potenza in entrata / *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*			

Lubrificazione / *Lubrication*

I riduttori epicicloidali sono lubrificati in modo permanente, non richiedono quindi ulteriore manutenzione.
Questo gli consente di essere installati praticamente ovunque.

Planetary gearboxes are life-time lubricated with grease, therefore they are maintenance free.
They can be installed in any location.

Carichi radiali / *Radial loads*



Numero di stadi *Stages number*	Carichi Radiali R_2 [N] / *Radial Load R_2 [N]*	
	PM52	PM62
1	200	240
2	320	360
3	450	520

Numero di stadi *Stages number*	Carichi Assiali A_2 [N] / *Axial Load A_2 [N]*	
	PM52	PM62
1	60	70
2	100	100
3	150	150

Rapporti / *Ratios*

Motoriduttore *Gearmotor*	Numero stadi epicicloidale *Planetary stages number*	Rapporto epicicloidale *Planetary ratio*	Rapporto vite senza fine *Wormgearbox ratio*	Rapporto finale *Total ratio*
WMP 026/052 **WMP 026/062**	1	6.75	10	**67.5**
			15	**101.3**
			20	**135**
			30	**202.5**
			40	**270**
			50	**337.5**
			60	**405**
	2	25.01	10	**250.1**
			15	**375.15**
			20	**500.2**
			30	**750.3**
			40	**1000.4**
			50	**1250.5**
			60	**1500.6**
		45.56	60	**2734**

Dati tecnici — *Technical data*

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i	
0.04					
SMT5014	**20.7**	12.2	2.0	67.5	**026/521**
SMM5014	**13.8**	17.2	1.4	101.3	
(1400 min^{-1})	**10.4**	21.8	1.1	135	
SMT SMM	**6.9**	25.0	1.0	202.5	
	5.2	25.0	1.0	270	
	4.1	25.0	1.0	337.5	
	3.5	25.0	1.0	405	
	5.6	25.0	1.0	250.1	**026/522**
	3.7	25.0	1.0	375.15	
	2.8	25.0	1.0	500.2	
	1.9	25.0	1.0	750.3	
	1.4	25.0	1.0	1000.4	
	1.1	25.0	1.0	1250.5	
	0.9	25.0	1.0	1500.6	
	0.5	25.0	1.0	2734	
	20.7	12.2	3.3	67.5	**026/621**
	13.8	17.2	2.3	101.3	
	10.4	21.8	1.8	135	
	6.9	29.2	1.4	202.5	
	5.2	36.0	1.1	270	
	4.1	40.0	1.0	337.5	
	3.5	40.0	1.0	405	
	5.6	42.5	1.2	250.1	**026/622**
	3.7	50.0	1.0	375.15	
	2.8	50.0	1.0	500.2	
	1.9	50.0	1.0	750.3	
	1.4	50.0	1.0	1000.4	
	1.1	50.0	1.0	1250.5	
	0.9	50.0	1.0	1500.6	
	0.5	50.0	1.0	2734	

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	sf	i	
0.06					
SMT5024	**20.7**	18.3	1.4	67.5	**026/521**
SMM5024	**13.8**	25.0	1.0	101.3	
(1400 min^{-1})	**10.4**	25.0	1.0	135	
SMT SMM	**20.7**	18.3	2.2	67.5	**026/621**
	13.8	25.9	1.5	101.3	
	10.4	32.7	1.2	135	
	6.9	40.0	1.0	202.5	
	5.2	40.0	1.0	270	
	5.6	50.0	1.0	250.1	**026/622**
0.09					
SMT5034	**20.7**	25.0	1.0	67.5	**026/521**
SMM5034					
SMT5624	**20.7**	27.5	1.5	67.5	**026/621**
SMM5624	**13.8**	38.8	1.0	101.3	
(1400 min^{-1})	**10.4**	40.0	1.0	135	
SMT SMM					
0.12					
SMT5044	**20.7**	36.7	1.1	67.5	**026/621**
SMT5634					
SMM5634	**13.8**	40.0	1.0	101.3	**026/622**
(1400 min^{-1})					
SMT SMM					
0.18					
SMT5644	**20.7**	40.0	1.0	67.5	**026/621**
SMM5644					
(1400 min^{-1})					
SMT SMM					

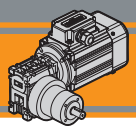
N.B.
Verificare sempre che la coppia M2 utilizzata non ecceda il valore indicato nelle caselle in grigio.

N.B.
Please check that the output torque M2 does not exceed the value in the grey areas.

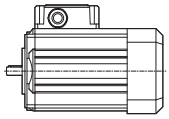
Motori *Motors*	SMT			SMM		
IEC	5014 5024 5034 5044	5624 5634	6324	5024 5034	5624 5634	6324
IEC	56 B14			56 B14		

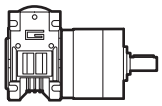
Dati tecnici elettrici — *Electrical technical data*

SMT SMM → AA3



Motori applicabili — *IEC Motor adapters*





		SMT		SMM	
		5014 5024 5034 5044	5624 5634 5644 5654	5014 5024 5034	5624 5634 5644
WMP	026/52	67.5 - 2734		67.5 - 2734	
	026/62	67.5 - 2734		67.5 - 2734	

67.5 - 2734 — Rapporti di riduzione i
Ratio i

AC

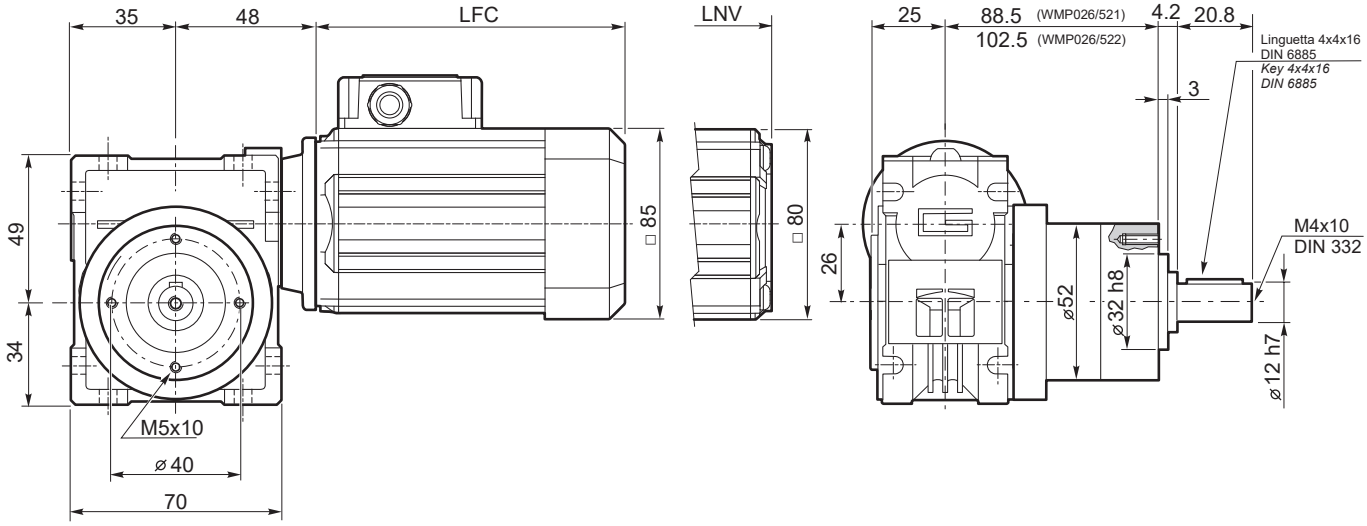
Dimensioni — *Dimensions*

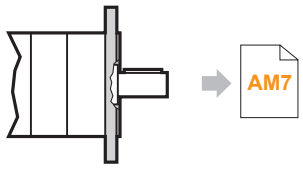
WMP 026/521
WMP 026/522

SMT50...TEFC
SMM50... TEFC

SMT50...TENV
SMM50... TENV

S3 servizio *duty* **30%**





P52...C

SMT	LFC	LNV	Kg
5014	135.5	108.5	4.1
5024	150.5	123.5	4.5
5034	175.5	148.5	5.3
5044	200.5	173.5	6

SMM	LFC	LNV	Kg
5014	150.5	123.5	4.5
5024	175.5	148.5	5.3
5034	200.5	173.5	6

Nota: il condensatore sarà fornito a corredo
Note: *the capacitor will be supplied separately*

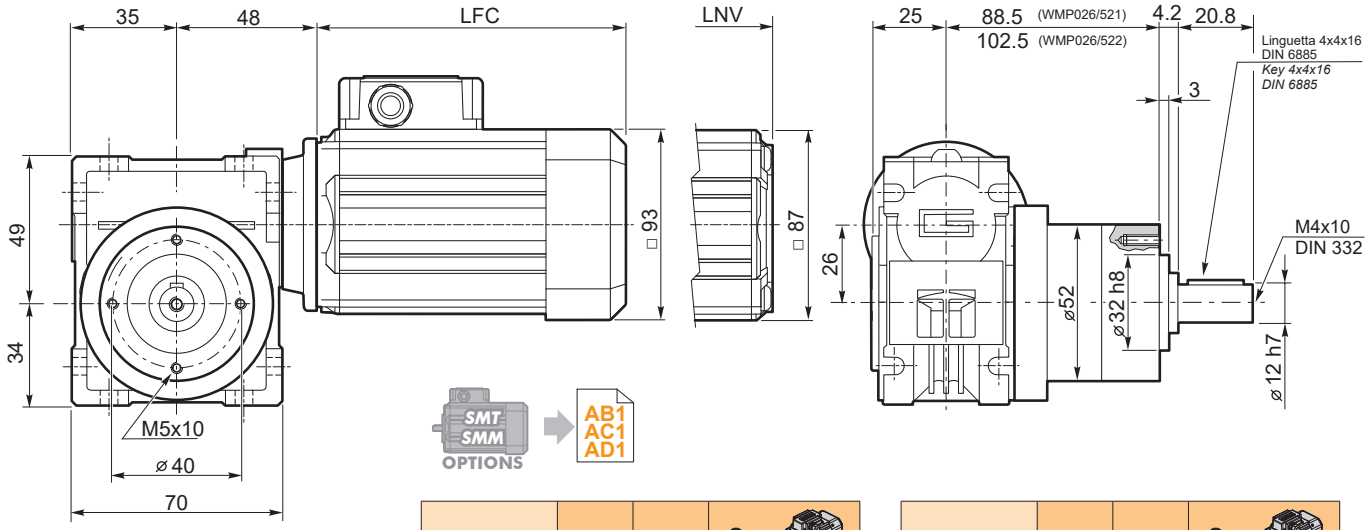
Dimensioni — *Dimensions*

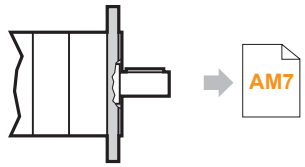
WMP 026/521
WMP 026/522

SMT56...TEFC
SMM56... TEFC

SMT56...TENV
SMM56... TENV

S3 servizio *duty* **30%**





P52...C

SMT	LFC	LNV	Kg
5624	141	117	4.6
5634	151	127	5
5644	186	162	6.2
5654	206	182	6.9

SMM	LFC	LNV	Kg
5624	151	127	4.9
5634	171	147	5.5
5644	206	182	6.8

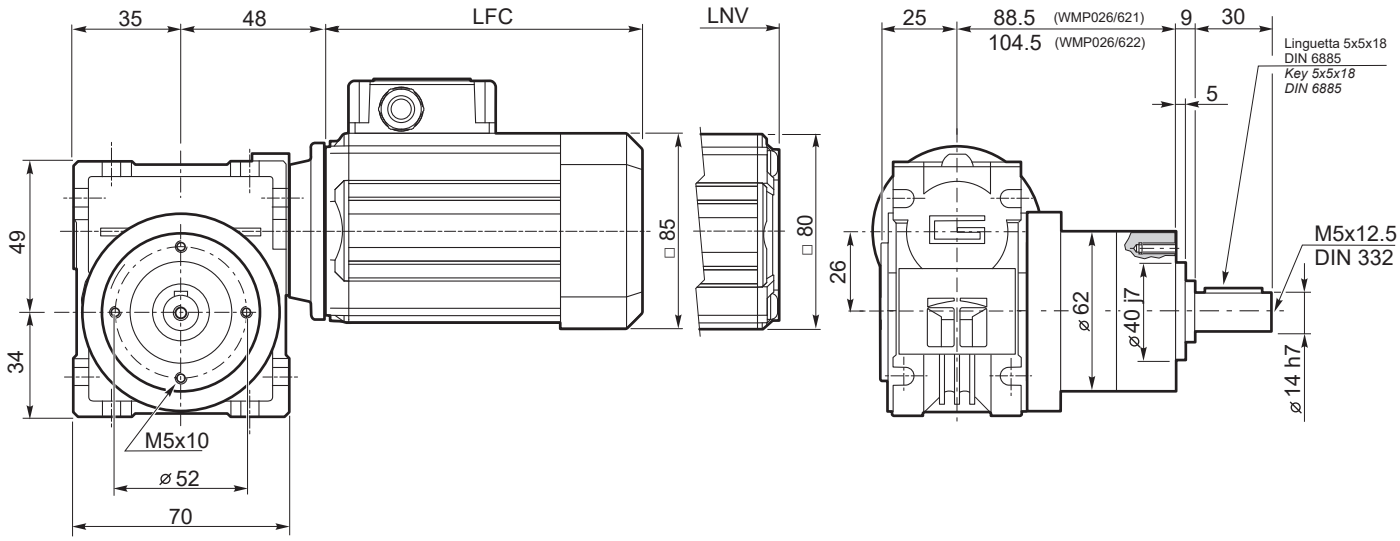
Nota: il condensatore sarà fornito a corredo
Note: *the capacitor will be supplied separately*

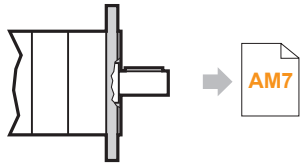
WMP 026/621
WMP 026/622

SMT50...TEFC
SMM50... TEFC

SMT50...TENV
SMM50... TENV

S3 servizio *duty* **30%**



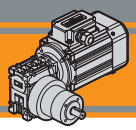


P62...C

SMT	LFC	LNV	Kg
5014	135.5	108.5	4.4
5024	150.5	123.5	4.8
5034	175.5	148.5	5.6
5044	200.5	173.5	6.3

SMM	LFC	LNV	Kg
5014	150.5	123.5	4.8
5024	175.5	148.5	5.6
5034	200.5	173.5	6.3

Nota: il condensatore sarà fornito a corredo
Note: *the capacitor will be supplied separately*



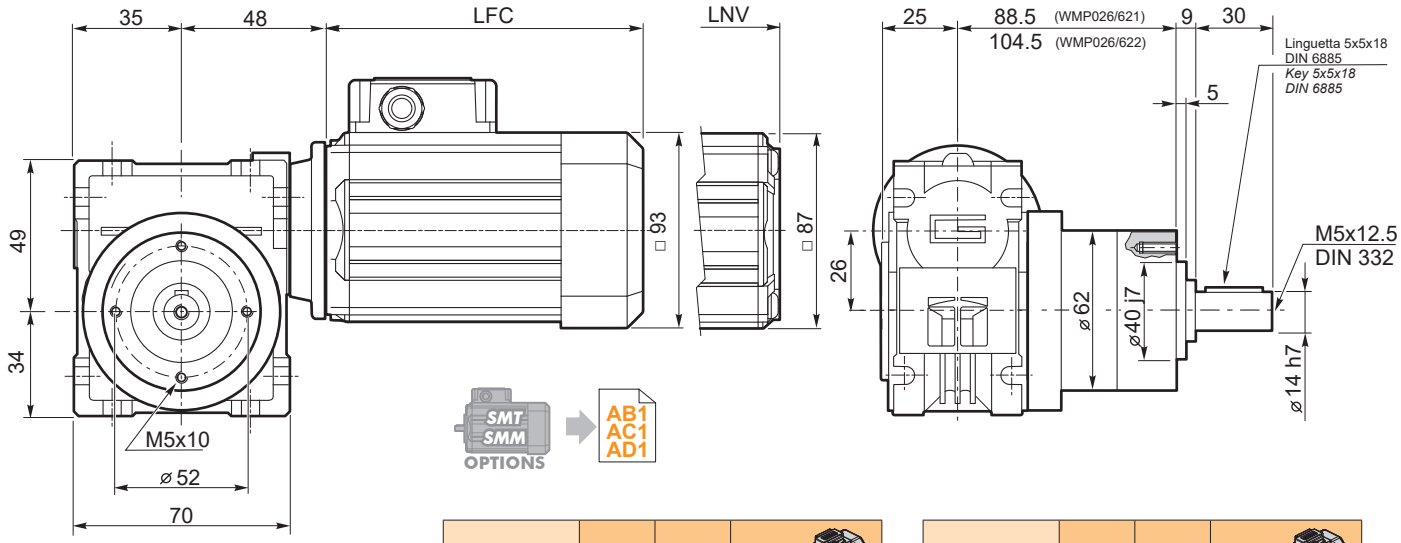
Dimensioni — *Dimensions*

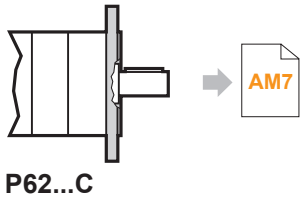
WMP 026/621
WMP 026/622

SMT56...TEFC
SMM56... TEFC

SMT56...TENV
SMM56... TENV

S3 servizio *duty* **30%**





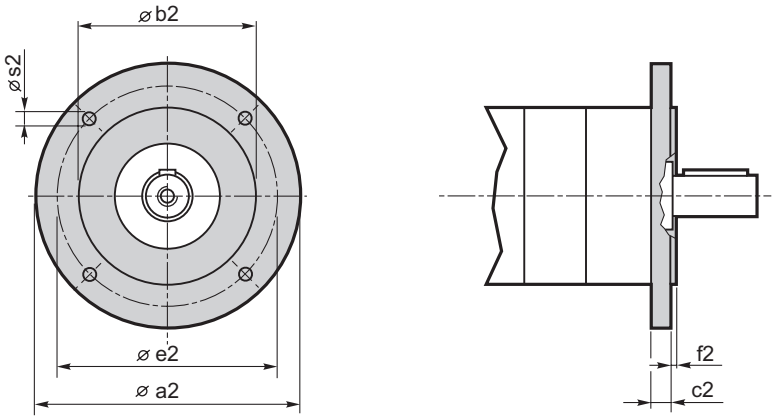
P62...C

SMT	LFC	LNV	Kg
5624	141	117	4.9
5634	151	127	5.3
5644	186	162	6.5
5654	206	182	7.2

SMM	LFC	LNV	Kg
5624	151	127	5.2
5634	171	147	5.8
5644	206	182	7.1

Nota: il condensatore sarà fornito a corredo
Note: *the capacitor will be supplied separately*

P.../... C... Flange uscita / *Output flanges*



P	Dimensioni / *Dimensions* a2	b2	c2	e2	f2	s2	Flangia uscita *Output flange*
52	80	50 j7	9	65	2.5	M5	**C80**
	90	60 j7	9	75	2.5	5.5	**C90**
	105	70 j7	9	85	2.5	6.5	**C105**
	120	80 j7	9	100	3.0	6.5	**C120**
62	80	50 j7	9	65	2.5	M5	**C80**
	90	60 j7	9	75	2.5	5.5	**C90**
	105	70 j7	9	85	2.5	6.5	**C105**
	120	80 j7	9	100	3.0	6.5	**C120**

Note/*Notes*