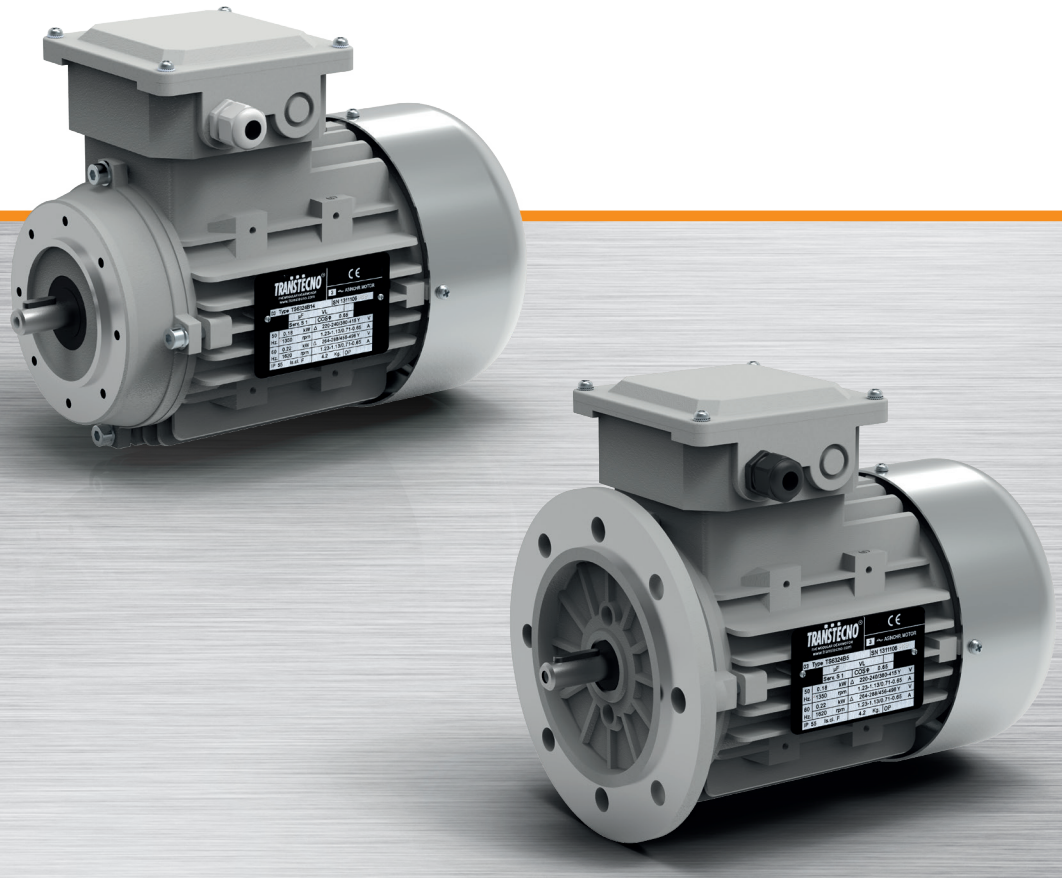
TRANSTECNO®
the modular gearmotor

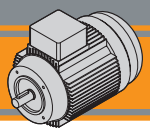
TS - T2A - T3A

TS - T2A - T3A

TS - T2A - T3A
Alù

Motori elettrici asincroni trifase CA
AC asynchronous three phase electric motors





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Caratteristiche tecniche

I motori della serie TS, T2A e T3A sono chiusi e dotati di ventola di raffreddamento.
La serie comprende motori ad induzione trifase 230/400 Vca a 50 Hz e 275/480 Vca a 60 Hz, 2-4-6 poli, per potenze da 0.06 kW fino a 15 kW e 400/690V a 18.5 kW.
Silenziosi e dinamicamente ben bilanciati uniscono qualità robustezza e convenienza.
Efficienza livelli IE1, IE2 e IE3.
La serie è costruita in alluminio ed è disponibile in configurazione B5, B14 e B3.

Altre caratteristiche standard dei motori TS, T2 e T3A sono:

- Isolamento termico di classe F
- Grado di protezione IP55 standard
- Sonda bimetallica PTO per protezione da sovratemperatura (solo IE2 e IE3)
- Rumorosità e vibrazioni contenute
- Temperatura ambiente: -20 °C ÷ +40 °C.
- Per uso industriale (industria leggera e pesante) e commerciale.
- Separatore di fase, per uso con convertitore di frequenza (campo frequenza consigliato 30-80Hz, contattare Transtecno per un diverso campo di lavoro)
- Tolleranza sulla tensione di alimentazione: +-10%
- B14 a 8 fori

Technical characteristics

TS, T2A and T3A series motors are closed and fan cooled.
The series includes induction 3-phase 2-4-6 poles motors 230/400 Vac at 50 Hz and 275/480 Vac at 60 Hz, it covers power sizes from 0.06 kW up to 18.5 kW. 18.5 kW standard is 400/690V power supply.
These motors run quietly and are dinamically well balanced; they match quality, strength and cheapness.
IE1, IE2 and IE3 efficiency levels.
The series is made in aluminum frame and is available with B5, B14 and B3.

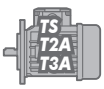
Other TS, T2A and T3A standard features are:

- *Class F thermal insulation*
- *IP55 enclosure protection*
- *PTO thermostat for overheating protection (IE2 and IE3 only)*
- *Low noise and vibrations*
- *Ambient temperature: -20 °C ÷ +40 °C.*
- *Heavy and light industrial applications suitable and commercial ones.*
- *Interwindings insulators, for use with frequency converter (recommended frequency range 30-80Hz, pls,contact Transtecno for a different frequency range)*
- *Supply voltage tolerance: +-10%*
- *B14: 8 holes*

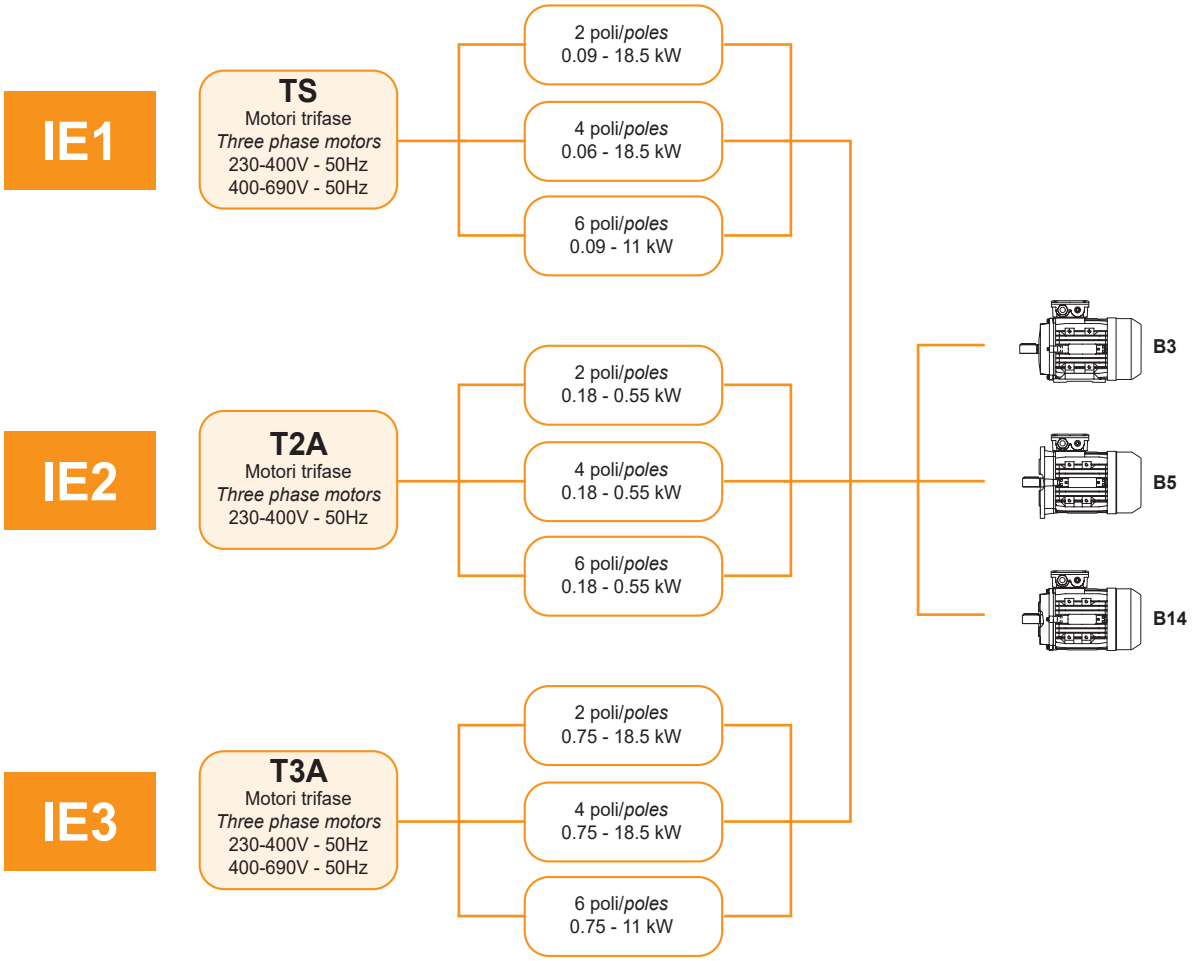
Designazione

Classification

MOTORE TRIFASE / *THREE PHASE MOTOR*

T	2A	63	2	4	0.18 kW	B5	PTO	230-400 V	50 Hz
Tipo *Type*	Efficienza *Efficiency level*	Grandezza *Size*	Indicativo potenza *Power coefficient*	Poli *Poles*	Potenza *Power*	Forma costruttiva *Version*	Protezione termica *Thermal protector*	Tensione *Voltage*	Frequenza *Frequency*
T 	**S** (IE1) **2A** (IE2) **3A** (IE3)	vedi tabelle *see tables*	**1-2-3-S** **L1-L2** **M1-M2**	**2** **4** **6**	**0.06 kW** **...** **11 kW**	**B5** **B14** **B3**	**Null** **PTO**	**230-400 V** **275-480 V** **400-690 V**	**50Hz** **60Hz** **50Hz**

Versioni — *Versions*



Simbologia e formule — *Symbols and formulas*

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

Dati tecnici — *Technical data*

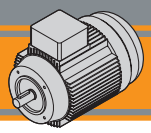
TS Motori trifase / *TS Three phase motors* — (230-400 V / 50 Hz - 3000 min^{-1}) poli / *poles* 2

TS			P_n [kW]	M_n [Nm]	n_n [min^{-1}]	I_n (400V) [A]	η %	cosφ	M_s/M_n	I_s/I_n	M_k/M_n	M_{sel}/M_n	LR [dB]	Massa *Mass* [Kg]	Servizio *Duty*	
IE1	561-2	B5 B14	0.09	0.31	2800	0.35	55.4	0.67	2.4	3.5	2.6	2.2	58	2.8	S1	230-400 V
	562-2		0.12	0.40	2840	0.37	65.9	0.71	2.3	4.3	2.6	2.1	58	3.0		
	631-2		0.18	0.62	2780	0.51	66.2	0.77	2.3	4.1	2.5	2.4	61	4.0		
	632-2		0.25	0.86	2780	0.65	70.3	0.79	2.6	4.3	2.5	2.4	61	4.2		
	633-2		0.37	1.28	2750	0.95	71.2	0.79	2.8	4.7	2.6	2.6	62	4.7		
	711-2		0.37	1.25	2830	0.94	71.0	0.80	2.8	5.9	2.9	2.0	64	5.2		
	712-2		0.55	1.87	2815	1.39	71.4	0.80	2.7	6.0	2.7	1.8	64	6.2		
	713-2		0.75	2.54	2820	1.79	73.8	0.82	3.0	6.6	3.0	2.0	65	7.2		
	801-2		0.75	2.53	2830	1.73	75.4	0.83	3.0	6.2	2.8	2.0	67	8.7		
	802-2		1.1	3.70	2840	2.42	79.0	0.83	2.6	6.1	3.1	2.6	67	10.5		
	803-2		1.5	5.08	2820	3.14	81.1	0.85	3.2	7.2	3.0	2.5	70	11.2		
	90S-2		1.5	5.03	2850	3.15	80.9	0.85	2.8	7.7	3.3	2.6	72	12.0	S3 70%	
	90L1-2		2.2	7.35	2860	4.51	82.8	0.85	3.7	8.8	3.9	3.3	72	14.5		
	90L2-2		3	10.12	2830	6.11	82.4	0.86	4.4	8.0	4.2	3.5	74	15.0		
	100L1-2		3	9.98	2870	6.00	83.9	0.86	2.8	8.1	3.2	2.0	76	20.0		
	100L2-2		4	13.31	2870	7.59	85.5	0.89	3.2	8.8	3.4	2.2	77	24.0		
	112M-2		4	13.31	2870	7.25	85.6	0.93	2.6	8.1	2.9	1.8	77	26.0		
	112L-2		5.5	18.17	2890	9.9	87.2	0.92	3.1	9.4	3.3	2.0	78	29.3		
	132S1-2		5.5	18.11	2900	10.2	86.5	0.90	2.3	7.9	3.1	1.5	80	38.4		
	132S2-2		7.5	24.70	2900	13.5	88.1	0.91	2.4	8.5	3.3	1.5	80	41.3		
	132M1-2		9.2	29.99	2930	17.0	87.8	0.89	2.0	7.5	2.2	1.2	81	48.2		
	132M2-2		11	35.85	2930	20.0	88.2	0.90	2.0	7.5	2.2	1.2	83	52.5		
	(400-690 V - 50 Hz - 3000 min^{-1}) su richiesta- *on request* (230- 400V 50 Hz)															
	160M1-2	B5 B14	11	35.98	2920	20.0	89.2	0.89	2.6	7.1	2.9	1.9	86	76.0	S3 70%	400-690V
	160M2-2		15	49.23	2910	27.1	88.8	0.90	2.2	6.4	2.8	1.8	86	83.0		
	160L-2		18.5	60.30	2930	32.6	90.0	0.91	2.9	8.4	3.1	1.7	86	92.3		

TS Motori trifase / *TS Three phase motors* — (230-400 V / 50 Hz - 1500 min^{-1}) poli / *poles* 4

MOTORI PREFERZIALI *PREFERED MOTORS*

TS			P_n [kW]	M_n [Nm]	n_n [min^{-1}]	I_n (400V) [A]	η %	cosφ	M_s/M_n	I_s/I_n	M_k/M_n	M_{sel}/M_n	LR [dB]	Massa *Mass* [Kg]	Servizio *Duty*	
IE1	561-4	B5-B14	0.06	0.42	1360	0.30	52.5	0.55	3.1	3.2	3.2	3.0	50	2.9	S1	230-400 V
	562-4	B5 B14	0.09	0.63	1360	0.39	56.5	0.59	2.3	3.1	2.5	2.8	50	3.2	S1	
	631-4		0.12	0.84	1360	0.49	57.9	0.61	2.65	3.2	2.8	2.7	52	3.7		
	632-4		0.18	1.31	1310	0.63	64.4	0.64	2.8	3.6	2.55	2.4	52	4.4		
	633-4		0.25	1.78	1340	0.80	68.3	0.66	2.7	3.9	2.7	2.4	54	5.0		
	711-4		0.25	1.77	1350	0.76	65.0	0.73	2.0	4.2	2.15	1.7	55	5.1		
	712-4		0.37	2.58	1370	1.05	68.7	0.74	2.25	4.6	2.35	1.95	55	6.1		
	713-4		0.55	3.81	1380	1.54	71.6	0.72	2.8	4.8	2.8	2.4	57	7.2		
	714-4		0.75	5.3	1360	2.24	68.1	0.71	2.7	4.2	2.7	2.4	58	7.7		
	801-4		0.55	3.83	1370	1.51	71.0	0.74	2.25	4.9	2.55	1.95	58	8.3	S3 70%	
	802-4		0.75	5.19	1380	1.85	74.1	0.79	2.5	5.4	2.55	2.05	58	9.7		
	803-4		1.1	7.56	1390	2.69	74.7	0.79	2.9	5.9	2.9	2.4	60	11.7		
	90S-4		1.1	7.50	1400	2.69	75.7	0.78	2.9	6.0	2.7	2.15	61	11.7		
	90L1-4		1.5	10.23	1400	3.56	80.0	0.76	3.4	6.9	3.3	2.7	61	15.0		
	90L2-4		2.2	15.01	1400	5.37	78.8	0.75	3.8	7.2	3.6	3.2	63	17.6		
	100L1-4		2.2	14.80	1420	4.79	80.8	0.82	2.4	6.3	2.7	2.15	64	19.2		
	100L2-4	B5 B14	3	20.18	1420	6.31	83.7	0.82	2.6	6.8	3.0	2.15	64	22.5	S3 70%	
	100L3-4		4	26.71	1430	8.36	84.2	0.82	2.2	7.0	2.3	1.5	65	27.3		
	112M-4		4	26.71	1430	8.17	85.1	0.83	2.5	7.1	2.9	2.05	65	29.0		
	112L-4		5.5	36.48	1440	11.2	86.4	0.82	2.5	7.2	2.95	2.2	68	35.7		
	132S-4		5.5	36.22	1450	10.8	86.5	0.85	2.15	7.5	2.85	1.8	71	39.0		
	132M-4		7.5	49.40	1450	14.2	87.6	0.87	2.1	8.6	2.9	1.7	71	48.6		
	132L1-4		9.2	60.18	1460	17.2	88.7	0.87	2.8	8.4	2.4	2.0	74	56.5		
	132L2-4		11	71.95	1460	20.5	90.1	0.86	2.2	8.9	2.5	2.0	74	64.0		
	(400-690 V - 50 Hz - 1500 min^{-1}) su richiesta- *on request* (230- 400V 50 Hz)															
	160M-4	B5 B14	11	71.95	1460	21.8	87.8	0.83	2.2	6.1	2.25	1.6	75	73.0	S3 70%	400-690V
	160L1-4		15	98.12	1460	28.5	88.3	0.86	2.2	7.3	2.45	1.4	75	88.5		
	160L2-4		18.5	121.01	1460	34.7	90.5	0.85	2.2	7.5	2.2	1.4	78	97.5		



Dati tecnici — *Technical data*

TS Motori trifase / *TS Three phase motors*

(230-400 V / 50 Hz - 1000 min^{-1}) poli / *poles* 6

TS			P_n [kW]	M_n [Nm]	n_n [min^{-1}]	I_n (400V) [A]	η %	cosφ	M_s/M_n	I_s/I_n	M_k/M_n	M_{sel}/M_n	LR [dB]	Massa *Mass* [Kg]	Servizio *Duty*	
IE1	631-6	B5 B14	0.09	1.02	840	0.41	51.1	0.62	2.0	2.9	2.2	1.9	50	4.2	S1	230-400 V
	632-6		0.12	1.35	850	0.54	53.5	0.60	2.3	2.8	2.2	2.1	50	4.5	S3 70%	
	711-6		0.18	1.95	880	0.61	63.6	0.67	2.15	3.5	2.4	2.0	52	5.6		
	712-6		0.25	2.65	900	0.86	62.6	0.67	2.05	3.2	2.3	2.05	52	6.1		
	713-6		0.37	3.97	890	1.28	65.2	0.64	2.3	3.4	2.5	2.3	54	6.8		
	801-6		0.37	3.93	900	1.13	68.5	0.69	1.95	3.7	2.25	1.8	56	8.1		
	802-6		0.55	5.84	900	1.51	72.0	0.73	2.25	4.3	2.45	2.05	56	9.6		
	803-6		0.75	7.96	900	2.01	72.8	0.74	2.2	4.1	2.4	2.1	58	10.0		
	90S-6		0.75	7.79	920	2.11	72.3	0.71	1.8	4.1	2.2	1.7	59	11.3		
	90L1-6		1.1	11.36	925	3.01	73.3	0.72	1.95	4.2	2.25	1.85	59	14.4		
	100L1-6		1.5	15.16	945	3.72	78.7	0.74	2.05	5.0	2.35	1.8	61	18.8		
	112M-6		2.2	22.00	955	5.11	79.7	0.78	1.9	4.7	2.25	1.75	64	25.0		
	132S-6		3	29.84	960	6.86	82.0	0.77	1.7	5.3	2.15	1.45	64	35.0		
	132M1-6		4	39.79	960	8.92	85.2	0.76	2.3	6.6	2.9	1.6	68	47.6		
	132M2-6		5.5	54.71	960	11.8	86.3	0.78	2.5	6.7	2.7	1.7	68	50.7		
	132L-6		7.5	74.61	960	16.5	85.2	0.77	2.0	6.5	2.0	1.3	68	57.2		
	(400-690 V - 50 Hz - 1000 min^{-1}) su richiesta- *on request* (230- 400V 50 Hz)															
	160M-6	B5 B14	7.5	74.61	960	16.7	86.4	0.75	2.1	6.1	2.7	1.65	68	69.0	S3 70%	400-690V
	160L-6		11	109.43	960	23.4	87.0	0.78	2.25	6.9	2.35	1.5	73	86.0		

T2A Motori trifase / *T2A Three phase motors*

(230-400 V / 50 Hz - 3000 min^{-1}) poli / *poles* 2

T2A			P_n [kW]	M_n [Nm]	n_n [min^{-1}]	I_n (400V) [A]	η %	cosφ	M_s/M_n	I_s/I_n	M_k/M_n	M_{sel}/M_n	LR [dB]	Massa *Mass* [Kg]	Servizio *Duty*	
IE2	631-2	B5 B14	0.18	0.61	2840	0.54	64.5	0.75	2.0	4.7	2.5	1.7	61	3.6	S1	230-400 V
	632-2		0.25	0.84	2840	0.67	68.8	0.78	2.5	5.2	2.7	2.1	61	3.9		
	633-2		0.37	1.24	2840	0.98	69.8	0.78	2.0	5.1	2.4	1.8	62	4.6		
	712-2		0.55	1.85	2840	1.32	74.1	0.81	2.3	5.7	2.5	1.6	64	5.8		

PTO installato / *PTO on board*

T2A Motori trifase / *T2A Three phase motors*

(230-400 V / 50 Hz - 1500 min^{-1}) poli / *poles* 4

MOTORI PREFERZIALI *PREFERED MOTORS*

T2A			P_n [kW]	M_n [Nm]	n_n [min^{-1}]	I_n (400V) [A]	η %	cosφ	M_s/M_n	I_s/I_n	M_k/M_n	M_{sel}/M_n	LR [dB]	Massa *Mass* [Kg]	Servizio *Duty*	
IE2	632-4	B5 B14	0.18	1.25	1380	0.59	64.7	0.68	2.0	3.6	2.1	1.9	52	4.0	S1	230-400 V
	633-4		0.25	1.72	1385	0.79	68.5	0.67	2.1	4.0	2.3	2.0	54	5.0		
	712-4		0.37	2.52	1400	1.01	72.7	0.73	2.4	4.7	2.5	2.0	55	6.3		
	713-4		0.55	3.77	1395	1.41	77.1	0.73	2.5	4.9	2.6	2.4	57	7.5		
	801-4		0.55	3.70	1420	1.47	77.1	0.70	2.4	5.4	2.8	2.2	57	9.0		

PTO installato / *PTO on board*

T2A Motori trifase / *T2A Three phase motors*

(230-400 V / 50 Hz - 1000 min^{-1}) poli / *poles* 6

T2A			P_n [kW]	M_n [Nm]	n_n [min^{-1}]	I_n (400V) [A]	η %	cosφ	M_s/M_n	I_s/I_n	M_k/M_n	M_{sel}/M_n	LR [dB]	Massa *Mass* [Kg]	Servizio *Duty*	
IE2	711-6	B5 B14	0.18	2.02	850	0.69	56.6	0.67	2.0	3.0	2.2	1,8	52	5.1	S1	230-400 V
	712-6		0.25	2.62	910	0.89	61.6	0.66	2.1	3.3	2.3	2.0	52	6.0		
	801-6		0.37	3.82	925	1.20	67.6	0.66	2.0	3.8	2.3	1.8	56	8.9		
	802-6		0.55	5.62	935	1.60	73.1	0.68	2.0	4.0	2.4	2.0	56	10.2		

PTO installato / *PTO on board*

Dati tecnici — *Technical data*

T3A Motori trifase / *T3A Three phase motors* — (230-400 V / 50 Hz - 3000 min^{-1}) poli / *poles* 2

T3A			P_n [kW]	M_n [Nm]	n_n [min^{-1}]	I_n (400V) [A]	η %	cosφ	M_s/M_n	I_s/I_n	M_k/M_n	M_{sel}/M_n	LR [dB]	Massa *Mass* [Kg]	Servizio *Duty*	
IE3	713-2	B5 B14	0.75	2.50	2870	1.64	80.7	0.82	3.0	7.1	3.2	2.2	65	7.1	S1	230-400 V
	802-2		1.1	3.63	2890	2.31	82.7	0.83	3.4	8.7	3.4	2.0	67	10.6		
	803-2		1.5	4.92	2910	3.17	84.2	0.81	4.0	9.6	4.0	2.2	70	12.5		
	90S-2		1.5	4.94	2900	3.14	84.2	0.82	3.5	8.3	3.7	2.1	72	14.0		
	90L-2		2.2	7.22	2910	4.51	85.9	0.82	3.1	8.1	3.5	2.2	72	16.3		
	90L2-2		3	9.85	2910	6.21	87.1	0.80	4.0	9.6	4.1	2.6	74	18.5		
	100L-2		3	9.85	2910	5.59	87.1	0.89	3.2	9.4	3.6	2.6	76	23.7		
	100L2-2		4	13,13	2910	7.28	88.1	0.90	3.3	10.1	3.6	2.3	77	27.6		
	112M-2		4	13,08	2920	7.20	88.1	0.91	3.4	10.5	3.9	2.4	77	30.1		
	112M2-2		5.5	17,99	2920	9.78	89.2	0.91	3.3	11.9	4.2	2.9	78	35.7		
	132S1-2		5.5	17,93	2930	10.0	89.2	0.89	3.2	10.0	4.0	2.5	80	43.4		
	132S2-2		7.5	24,45	2930	13.4	90.1	0.90	3.6	11.9	4.7	2.4	80	51.7		
	132M1-2		9.2	29,99	2930	16.1	90.6	0.91	3.2	11.6	4.2	2.6	81	58.3		
	132M2-2		11	35,85	2930	18.9	91.2	0.92	3.6	12.2	4.1	2.4	83	63.5		
	(400-690 V - 50 Hz - 3000 min^{-1}) su richiesta- *on request* (230- 400V 50 Hz)															
	160M1-2	B5 B14	11	35,49	2960	19.8	91.2	0.88	3.2	10.3	4.0	1.4	86	85.5	S1	400-690V
	160M2-2		15	48,40	2960	26.5	91.9	0.89	3.9	11.4	4.2	1.4	86	104		
	160L1-2		18.5	59,89	2950	31.8	92.4	0.91	3.0	9.1	3.0	1.5	86	121		

PTO installato / *PTO on board*

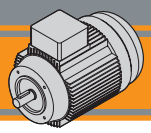
T3A Motori trifase / *T3A Three phase motors* — (230-400 V / 50 Hz - 1500 min^{-1}) poli / *poles* 4

T3A			P_n [kW]	M_n [Nm]	n_n [min^{-1}]	I_n (400V) [A]	η %	cosφ	M_s/M_n	I_s/I_n	M_k/M_n	M_{sel}/M_n	LR [dB]	Massa *Mass* [Kg]	Servizio *Duty*	
IE1	802-4	B5 B14	0.75	4.97	1440	1.90	82.5	0.69	3.1	6.3	3.1	2.5	58	11.7	S1	230-400 V
	803-4		1.1	7.35	1430	2.55	84.1	0.74	3.0	6.6	3.1	2.6	61	13.8		
	90S-4		1.1	7.30	1440	2.59	84.1	0.73	4.0	7.1	3.4	2.5	61	15.1		
	90L1-4		1.5	9.95	1440	3.43	85.3	0.74	3.4	7.1	3.3	2.8	61	18.0		
	90L2-4		1.85	12.27	1440	4.28	85.4	0.73	3.2	7.5	3.3	2.7	61	18.0		
	90LB-4		2.2	14.59	1440	4.84	86.7	0.75	3.5	7.7	3.6	3.2	62	20.0		
	100L1-4		2.2	14.49	1450	4.58	86.7	0.80	2.8	7.9	3.3	2.3	64	23.9		
	100L2-4 *	B5	3	19.76	1450	6.33	87.7	0.78	3.3	8.1	3.4	2.7	64	28.3		
	100L3-4 *		4	26.25	1455	8.55	88.6	0.77	3.8	9.0	3.9	2.7	65	29.0		
	112M4 *		4	26.34	1450	7.95	88.6	0.82	3.1	8.6	3.7	2.6	65	33.9		
	112M2-4 *		5.5	36.22	1450	11.1	89.6	0.80	3.8	9.1	3.7	2.5	71	39.1		
	132S-4 *		5.5	36.22	1460	10.5	89.6	0.84	2.3	9.0	3.5	1.9	71	47.4		
	132M4 *		7.5	49.06	1460	14.3	90.4	0.84	2.6	8.9	3.4	2.2	71	57.4		
	132M2-4 *		9.2	60.18	1460	17.8	90.9	0.82	3.2	10.0	3.6	2.0	74	60		
	132M34 *		11	71.95	1460	20.7	91.4	0.84	3.5	10.5	3.7	2.1	75	67		
	(400-690 V - 50 Hz - 1500 min^{-1}) su richiesta- *on request* (230- 400V 50 Hz)															
	160M-4 *	B5	11	71.46	1470	20.9	91.4	0.83	2.6	7.6	2.8	1.8	75	89	S1	400-690V
	160L1-4 *		15	97.45	1470	27.7	92.1	0.85	3.0	9.2	3.0	2.0	75	111		
	160L2-4 *		18.5	120.2	1470	34.3	92.6	0.84	3.1	9.5	3.2	1.5	80	115		

MOTORI PREFERZIALI *PREFERED MOTORS*

PTO installato / *PTO on board*

* versione B14 a richihesta / *B14 version on request*



Dati tecnici — *Technical data*

T3A Motori trifase / *T3A Three phase motors*

(230-400 V / 50 Hz - 1000 min^{-1}) poli / *poles* 6

T3A			P_n [kW]	M_n [Nm]	n_n [min^{-1}]	I_n (400V) [A]	η %	cosφ	M_s/M_n	I_s/I_n	M_k/M_n	M_{sel}/M_n	LR [dB]	Massa *Mass* [Kg]	Servizio *Duty*	
IE3	90S-6	B5 B14	0.75	7.54	950	2.05	78.9	0.67	2.3	4.7	2.6	2.1	59	13.8	S1	230-400 V
	90L-6		1.1	11.06	950	2.93	81.0	0.67	2.7	5.2	2.9	2.5	59	16.2		
	90L2-6		1.5	15.08	950	3.92	82.5	0.67	2.9	5.6	3.0	2.6	61	21.3		
	100L6		1.5	15.00	955	3.75	82.5	0.70	2.4	5.5	2.9	2.2	61	22.1		
	100L2-6		2.2	22.00	955	5.23	84.3	0.72	2.5	6.2	3.0	2.3	64	27.7		
	112M-6		2.2	21.77	965	5.54	84.3	0.68	2.0	5.5	2.5	1.8	64	27.1		
	112M2-6		3	29.69	965	7.33	85.6	0.69	2.5	6.3	2.9	1.9	64	33.1		
	132S-6		3	29.69	965	6.84	85.6	0.74	2.0	6.0	2.7	1.7	64	38.6		
	132M1-6		4	39.38	970	8.99	86.8	0.74	2.3	6.8	3.0	1.8	68	47.6		
	132M2-6		5.5	53.87	975	12.7	88.0	0.71	2.9	7.4	3.5	2.2	68	55.7		
	132M3-6		7.5	73.84	970	16.9	89.1	0.72	3.3	8.3	3.3	2.0	68	67.6		
	(400-690 V - 50 Hz - 1000 min^{-1}) su richiesta- *on request* (230- 400V 50 Hz)															
	160M-6	B5 B14	7.5	73.46	975	16.0	89.1	0.76	2.2	7.3	2.9	1.8	68	79.6	S1	400-690V
	160L-6		11	107.74	975	22.5	90.3	0.78	2.7	8.4	2.9	1.2	73	105		

PTO installato / *PTO on board*

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

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

TS	Albero / *Shaft*					B5											
	D	E	DH	GA	F	P	M	N	S	T	AC	AD	AF	KK	L	LL	V
56	9	20	M3	10.2	3	120	100	80	7	3	117	100	88	1-M16x1.5	196	88	14
63	11	23	M4	12.5	4	140	115	95	10	3	130	108	94	1-M16x1.5	220	94	14
71 1/2 (3)	14	30	M5	16	5	160	130	110	10	3.5	147	115	94	1-M20x1.5	241 (255)	94	20
80	19	40	M6	21.5	6	200	165	130	12	3.5	163	133	105	1-M20x1.5	290	105	27
90S	24	50	M8	27	8	200	165	130	12	3.5	183	139	105	1-M20x1.5	312	105	30
90L1	24	50	M8	27	8	200	165	130	12	3.5	183	139	105	1-M20x1.5	337	105	30
100L 1/2	28	60	M10	31	8	250	215	180	15	4	205	152	105	2-M20x1.5	369	105	26
112M/L	28	60	M10	32	8	250	215	180	15	4	221	166	112	2-M25x1.5	470	112	32
132S	38	80	M12	43	10	300	265	230	15	4	256	184	112	2-M25x1.5	524	112	38
132M/L	38	80	M12	43	10	300	265	230	15	4	256	184	112	2-M25x1.5	562/588	112	38
160M/L	42	110	M16	49	12	350	300	250	19	5	315	223	143	2-M32x1.5	705	143	64

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

TS	Albero / *Shaft*					B14											
	D	E	DH	GA	F	P	M	N	S	T	AC	AD	AF	KK	L	LL	V
56	9	20	M3	10.2	3	80	65	50	M5	2.5	117	100	88	1-M16x1.5	196	88	14
63	11	23	M4	12.5	4	90	75	60	M5	2.5	130	108	94	1-M16x1.5	220	94	14
71 1/2 (3)	14	30	M5	16	5	105	85	70	M6	2.5	147	115	94	1-M20x1.5	241 (255)	94	20
80	19	40	M6	21.5	6	120	100	80	M6	3	163	133	105	1-M20x1.5	290	105	27
90S	24	50	M8	27	8	140	115	95	M8	3	183	139	105	1-M20x1.5	312	105	30
90L 1/2	24	50	M8	27	8	140	115	95	M8	3	183	139	105	1-M20x1.5	337 / 367	105	30
100L 1/2	28	60	M10	31	8	160	130	110	M8	3.5	205	152	105	2-M20x1.5	369	105	26
112M/L	28	60	M10	32	8	160	130	110	M8	4	221	166	112	2-M25x1.5	470	112	32
132S	38	80	M12	43	10	200	165	130	M10	4	256	184	112	2-M25x1.5	524	112	38
132M/L	38	80	M12	43	10	200	165	130	M10	4	256	184	112	2-M25x1.5	562/588	112	38
160M/L	42	110	M16	49	12	250	215	180	M12	4	315	223	143	2-M32x1.5	705	143	64

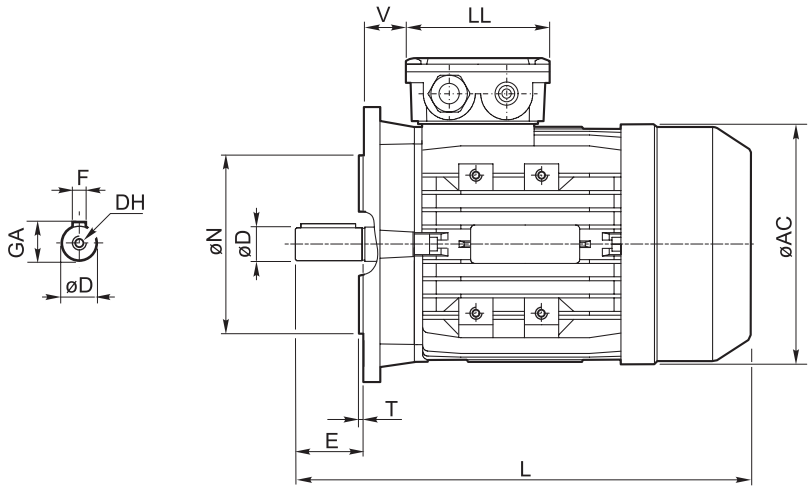
Dimensioni motori trifase serie TS — B3 — *TS Series three phase motor dimensions*

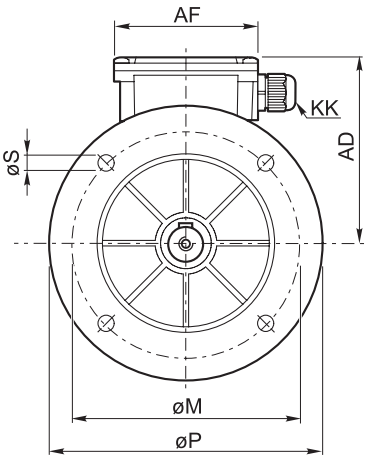
TS	Albero / *Shaft*					B3													
	D	E	DH	GA	F	A	E1	F1	G	G1	H	I	AC	AD	AF	KK	L	LL	V
56	9	20	M4	10.2	3	56	36	71	90	110	5.8x8.8	6.5	110	96	88	1-M16x1.5	196	88	14
63	11	23	M4	12.5	4	63	40	80	100	124	7x10	7	121	107	94	1-M16x1.5	218	94	14
71 1/2 (3)	14	30	M5	16	5	71	45	90	112	140	7x10	10	140	115	94	1-M20x1.5	241 (255)	94	20
80	19	40	M6	21.5	6	80	50	100	125	160	10x13	10	156	134	105	1-M20x1.5	290	105	27
90S	24	50	M8	28	8	90	56	100	140	175	10x13	12	175	138	105	1-M20x1.5	312	105	30
90L 1/2	24	50	M8	28	8	90	56	125	140	175	10x13	12	175	138	105	1-M20x1.5	337/367	105	30
100L 1/2	28	60	M10	32	8	100	63	140	160	200	12x15	14	200	150	105	2-M20x1.5	369	105	26
112M/L	28	60	M10	32	8	112	70	140	190	230	12x15	14	221	166	112	2-M25x1.5	470	112	32
132S	38	80	M12	43	10	132	89	140	216	255	12x15	16	256	184	112	2-M25x1.5	524	112	38
132M/L	38	80	M12	43	10	132	89	178	216	255	12x15	16	256	184	112	2-M25x1.5	562/588	112	38
160M/L	42	110	M16	49	12	160	108	210/254	254	314	15x19	16	315	223	143	2-M32x1.5	705	143	64

Nota: I piedi sono avvitati fino alla taglia 132 / **Note:** *foot removable up to size 132*

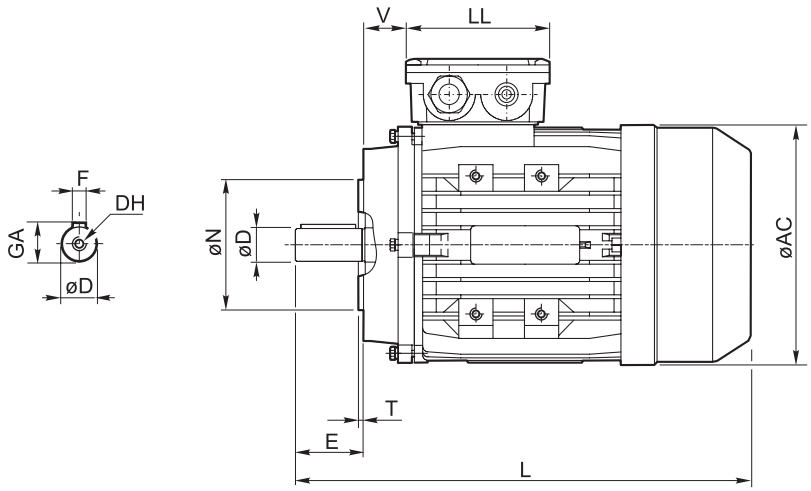
Dati tecnici: dimensioni motori | ***Technical data: motor dimensions***

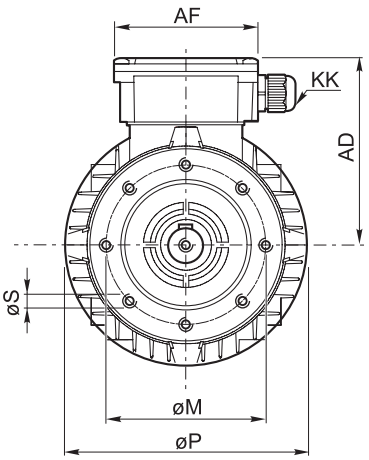
Dimensioni motori trifase serie TS — B5 — *TS Series three phase motor dimensions*



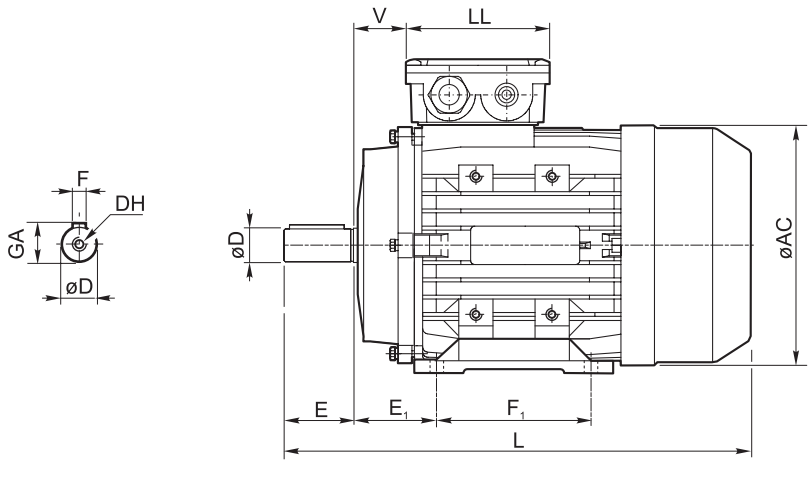


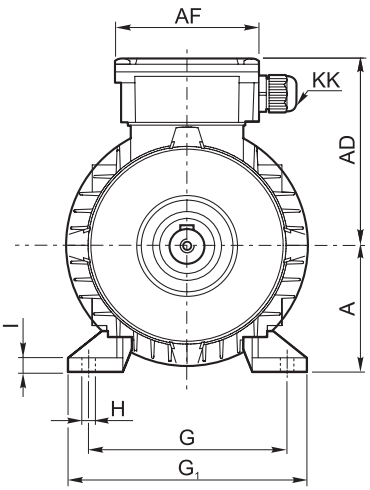
Dimensioni motori trifase serie TS — B14 — *TS Series three phase motor dimensions*





Dimensioni motori trifase serie TS — B3 — *TS Series three phase motors dimensions*





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

Dimensioni motori trifase serie T2A / T3A B5 *T2A / T3A Series three phase motor dimensions*

T2A T3A	Albero / *Shaft*					B5											
	D	E	DH	GA	F	P	M	N	S	T	AC	AD	AF	KK	L	LL	V
63	11	23	M4	12.5	4	140	115	95	10	3	122	108	98	1-M16x1.5	215	98	10
71 1/2/3	14	30	M5	16	5	160	130	110	10	3.5	138	115	98	1-M20x1.5	245	98	16
80	19	40	M6	21.5	6	200	165	130	12	3.5	158	134	109	1-M20x1.5	277	109	27
90S	24	50	M8	28	8	200	165	130	12	3.5	177	145	109	1-M20x1.5	315	109	28.5
90L1/L2/B	24	50	M8	28	8	200	165	130	12	3.5	177	145	109	1-M20x1.5	338	109	28.5
100L1/2/3	28	60	M10	32	8	250	215	180	15	4	200	160	118	2-M20x1.5	376	118	32
112M/L	28	60	M10	32	8	250	215	180	15	4	220	171	118	2-M25x1.5	397	118	33
132S	38	80	M12	43	10	300	265	230	15	4	261	191	118	2-M25x1.5	460	118	37
132M/L	38	80	M12	43	10	300	265	230	15	4	261	191	118	2-M25x1.5	498	118	37
160M/L	42	110	M16	49	12	350	300	250	19	5	315	231	148	2-M32x1.5	616-660	148	64

Dimensioni motori trifase serie T2A / T3A B14 *T2A / T3A Series three phase motor dimensions*

T2A T3A	Albero / *Shaft*					B14											
	D	E	DH	GA	F	P	M	N	S	T	AC	AD	AF	KK	L	LL	V
63	11	23	M4	12.5	4	90	75	60	M5	2.5	122	108	98	1-M16x1.5	215	98	10
71 1/2/3	14	30	M5	16	5	105	85	70	M6	2.5	138	115	98	1-M20x1.5	245	98	16
80	19	40	M6	21.5	6	120	100	80	M6	3	158	134	109	1-M20x1.5	277	109	27
90S	24	50	M8	28	8	140	115	95	M8	3	177	145	109	1-M20x1.5	315	109	28.5
90L1/L2/B	24	50	M8	28	8	140	115	95	M8	3	177	145	109	1-M20x1.5	338	109	28.5
100L1/2/3	28	60	M10	32	8	160	130	110	M8	3.5	200	160	118	2-M20x1.5	376	118	32
112M/L	28	60	M10	32	8	160	130	110	M8	3.5	220	171	118	2-M25x1.5	397	118	33
132S	38	80	M12	43	10	200	165	130	M10	3.5	261	191	118	2-M25x1.5	460	118	37
132M/L	38	80	M12	43	10	200	165	130	M10	3.5	261	191	118	2-M25x1.5	498	118	37
160M/L	42	110	M16	49	12	250	215	180	M12	4	315	231	148	2-M32x1.5	616-660	148	64

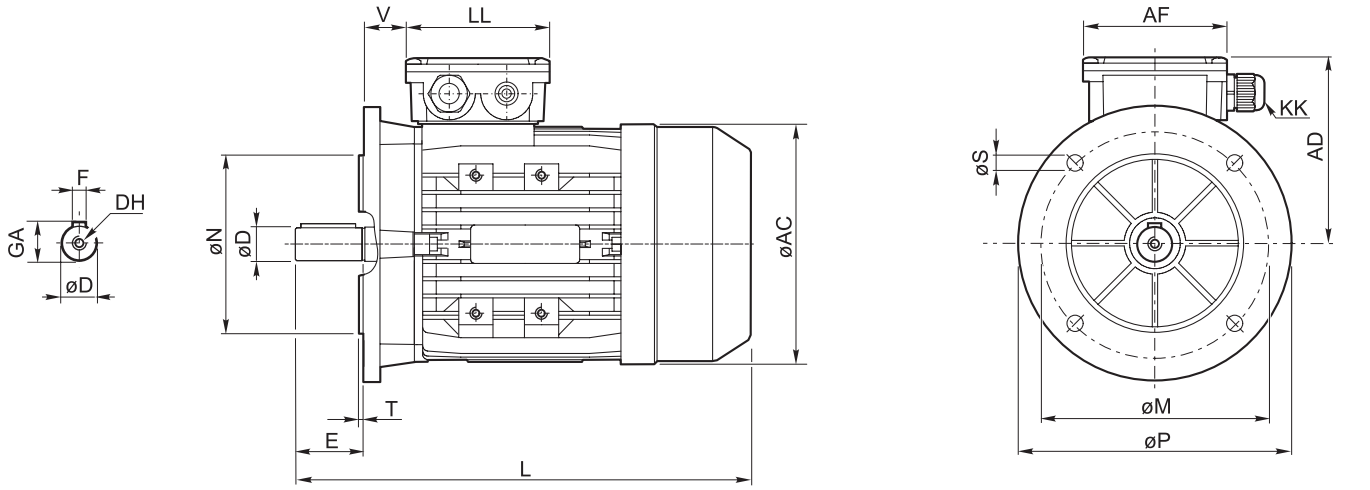
Dimensioni motori trifase serie T2A / T3A B3 *T2A / T3A Series three phase motor dimensions*

T2A T3A	Albero / *Shaft*					B3													
	D	E	DH	GA	F	A	E1	F1	G	G1	H	I	AC	AD	AF	KK	L	LL	V
63	11	23	M4	12.5	4	63	40	80	100	124	7x10	7	122	108	98	1-M16x1.5	215	98	10
71	14	30	M5	16	5	71	45	90	112	140	7x10	10	138	115	98	1-M20x1.5	245	98	16
80	19	40	M6	21.5	6	80	50	100	125	160	10x15	10	158	134	109	1-M20x1.5	277	109	27
90S	24	50	M8	28	8	90	56	100	140	176	10x15	12	177	145	109	1-M20x1.5	315	109	28.5
90L1/L2/B	24	50	M8	28	8	90	56	125	140	176	10x15	12	177	145	109	1-M20x1.5	338	109	28.5
100L1/2/3	28	60	M10	32	8	100	63	140	160	200	12x16	14	200	160	118	2-M20x1.5	376	118	32
112M/L	28	60	M10	32	8	112	70	140	190	224	12x16	14	220	171	118	2-M25x1.5	397	118	33
132S	38	80	M12	43	10	132	89	140	216	260	12x16	16	261	191	118	2-M25x1.5	460	118	37
132M/L	38	80	M12	43	10	132	89	178	216	260	12x16	16	261	191	118	2-M25x1.5	498	118	37
160M/L	42	110	M16	49	12	160	108	210/254	254	314	15x21	16	315	231	148	2-M32x1.5	616-660	148	64

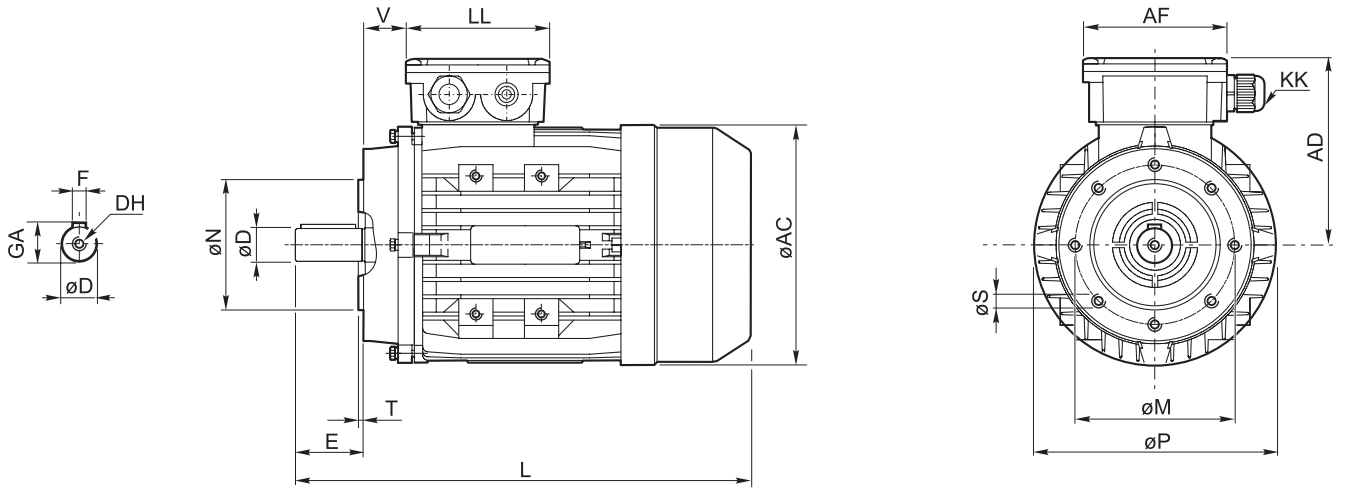
Nota: I piedi sono avvitati fino alla taglia 132 / **Note:** *foot removable up to size 132*

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

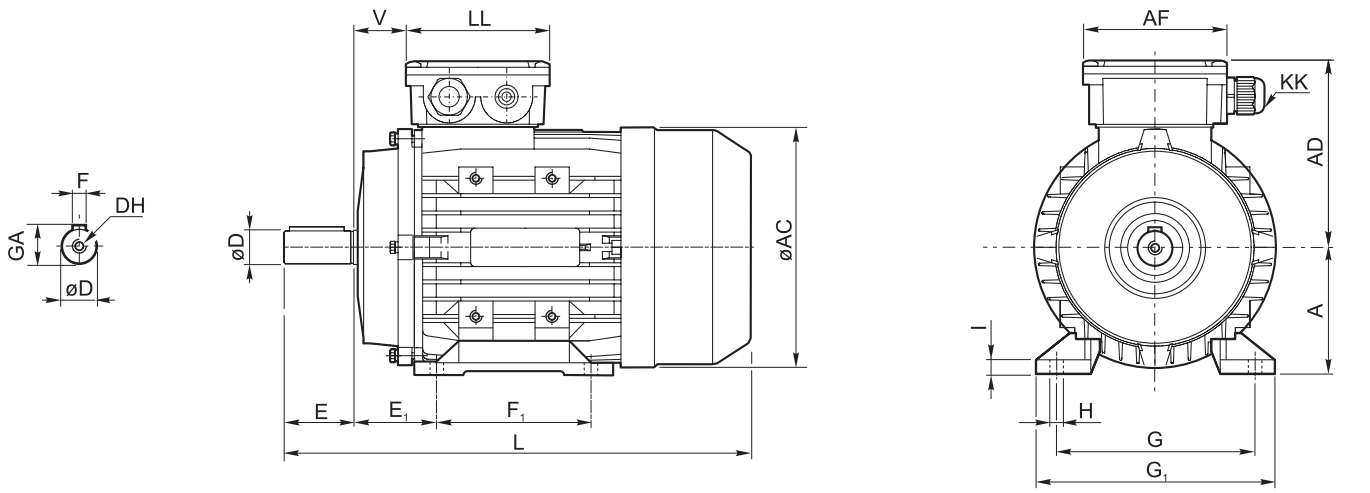
Dimensioni motori trifase serie T2A / T3A B5 *T2A / T3A Series three phase motor dimensions*



Dimensioni motori trifase serie T2A / T3A B14 *T2A / T3A Series three phase motor dimensions*



Dimensioni motori trifase serie T2A / T3A B3 *T2A / T3A Series three phase motor dimensions*



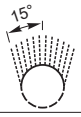
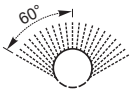
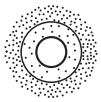
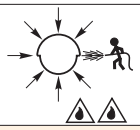
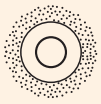
TS-T2A-T3A

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.*

Protezione termica bimetallica (PTO) - solo IE2 e IE3 — *Thermal bimetallic protector (PTO) – IE2 and IE3 only*

La serie T2A/T3A (IE2 e IE3) è dotata di pastiglia termica bimetallica (PTO) per il monitoraggio del superamento della soglia termica (135°C ± 5°C). Utile per applicazioni che possono raggiungere temperature elevate. Sotto alcuni esempi dell'utilizzo.La pastiglia termica in dotazione standard è un contatto normalmente chiuso: si apre al superamento della temperatura di soglia. La protezione termica PTO (Power Take Off), è un contatto bimetallico, cioè composto da 2 metalli, abbracciati da una molla. La diversa dilatazione termica induce lo scostamento dei due metalli al superamento della soglia di intervento. La lettura del segnale è un semplice chiuso-aperto.
Esso può essere letto da un PLC, oppure portato all'ingresso di un terminale di un convertitore di frequenza. Solitamente la PTO viene gestita attraverso un teleruttore: utilizzata per interrompere l'alimentazione di un teleruttore che, a sua volta, interrompe l'alimentazione del motore.
Attenzione: il riarmo è automatico a circa 90-95°C. si consiglia fortemente l'istallazione da parte di personale esperto, in grado di mettere in opera un circuito con autoritenuta (o similare) che impedisca l'automatica ripartenza del motore alla richiusura della PTO.

T2A/T3A series (IE2 and IE3) is provided with standard bimetallic thermal protector (PTO) monitoring overtemperature (135°C ± 5°C). Suggested in high temperature motor applications. Below some examples.
Standard built in thermal protector is a normally closed contact. It opens over temperature threshold.
The PTO (Power Take Off) thermal protection is a bimetallic contact, i.e. composed of 2 metals, embraced by a spring. The different thermal expansion causes the two metals to move apart when the intervention threshold is exceeded. The signal reading is a simple closed-open.
It can be read by a PLC, or brought to the input of a terminal of a frequency converter. Usually the PTO is managed through a contactor: used to interrupt the power supply of a contactor which, in turn, interrupts the power supply to the motor.
Warning: the reset is automatic at about 90-95°C. It is strongly recommended that installation is carried out by expert personnel, capable of implementing a self-retaining circuit (or similar) that prevents the automatic restart of the motor when the PTO closes.

Tipi di servizio IEC

IEC duty cycles

Il servizio di un motore indica il tipo di utilizzo e la gravosità del ciclo di lavoro. Lo stesso motore può funzionare in tutti i servizi, purché si moduli la potenza nominale al fine di consentire il corretto equilibrio termico.
Lo stesso motore è dichiarato per potenze diverse se è diverso il servizio.

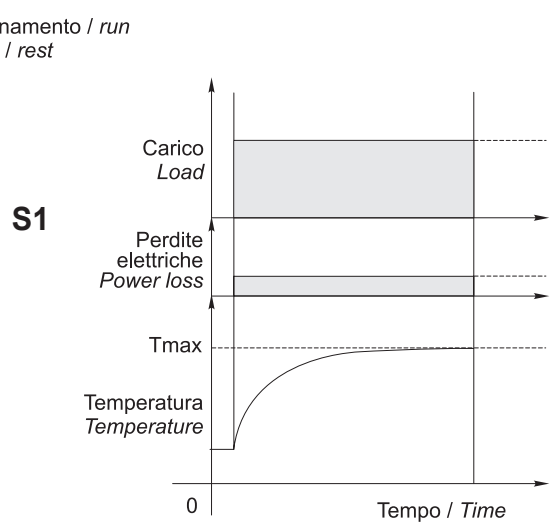
The duty cycle of a motor indicates its use and running cycle. The same motor can work under all these conditions by adjusting the rated power in order to maintain the correct temperature balance. The same motor can be declared as having a different power if it has a different duty cycle.

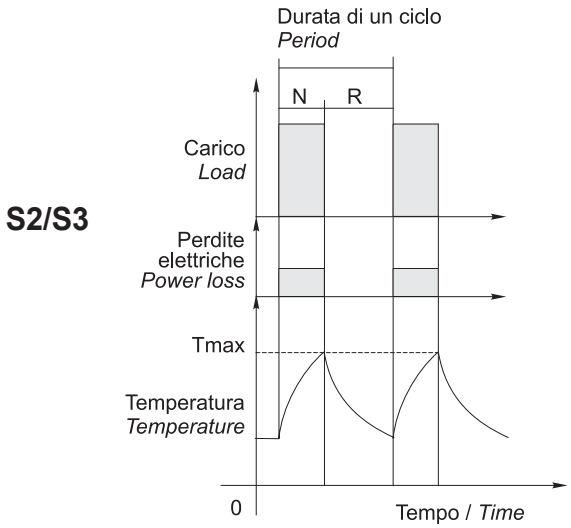
S1	**Servizio continuo.** Funzionamento a carico costante per una durata sufficiente al raggiungimento dell'equilibrio termico.	***Continuous duty.*** *The motor works at a constant load for enough time to reach temperature equilibrium*
S2	**Servizio di durata limitata.** Funzionamento a carico costante per una durata inferiore a quella necessaria al raggiungimento dell'equilibrio termico, seguito da un periodo di riposo tale da riportare il motore alla temperatura ambiente.	***Short time duty****. The motor works at a constant load, but not long enough to reach temperature equilibrium, and the rest periods are long enough for the motor to reach ambient temperature.*
S3	**Servizio periodico intermittente.** Sequenze di cicli identici di marcia e di riposo a carico costante, senza raggiungimento dell'equilibrio termico. La corrente di spunto ha effetti trascurabili sul surriscaldamento del motore.	***Intermittent periodic duty.*** *Sequential, identical run and rest cycles with constant load. Temperature equilibrium is never reached. Starting current has little effect on temperature rise.*
S4	**Servizio periodico intermittente con avviamento.** Sequenza di cicli di funzionamento identici di avviamento, marcia e riposo a carico costante, senza raggiungimento dell'equilibrio termico. La corrente di spunto ha effetti sul riscaldamento del motore.	***Intermittent periodic duty with starting.*** *Sequential identical start, run and rest cycles with constant load. Temperature equilibrium is not reached, but starting current affects temperature rise.*
S5	**Servizio periodico intermittente con frenatura elettrica.** Sequenza di cicli di funzionamento identici di avviamento, marcia a carico costante, frenatura elettrica e riposo, senza raggiungimento dell'equilibrio termico.	***Intermittent periodic duty with electric braking.*** *Sequential, identical cycles of starting, running at constant load, electric braking and rest. Temperature equilibrium is not reached.*
S6	**Servizio periodico ininterrotto con carico intermittente.** Sequenza di cicli di lavoro identici con carico costante e senza carico. Non ci sono periodi di riposo.	***Continuous operation with intermittent load.*** *Sequential, identical cycles of running with constant load and running with no load. No rest periods.*
S7	**Servizio periodico ininterrotto con frenatura elettrica.** Sequenza di cicli di funzionamento identici di avviamento, marcia a carico costante e frenatura elettrica, senza periodi di riposo.	***Continuous operation with electric braking.*** *Sequential, identical cycles of starting, running at constant load and electric braking. No rest periods.*
S8	**Servizio periodico ininterrotto con variazioni di carico e di velocità.** Sequenza di cicli identici di avviamento, marcia a carico costante e velocità definita, seguiti da marcia a carico costante differente e velocità differente dalla precedente. Non ci sono periodi di riposo.	***Continuous operation with periodic changes in load and speed.*** *Sequential, identical, duty cycles of start, run at constant load and given speed, then run at other constant loads and speeds. No rest periods.*
S9	**Servizio con variazioni di carico e velocità non periodiche**	***Load and speed non periodic variations***

Grafico servizi più comuni

Most common services 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 di classeF.

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

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

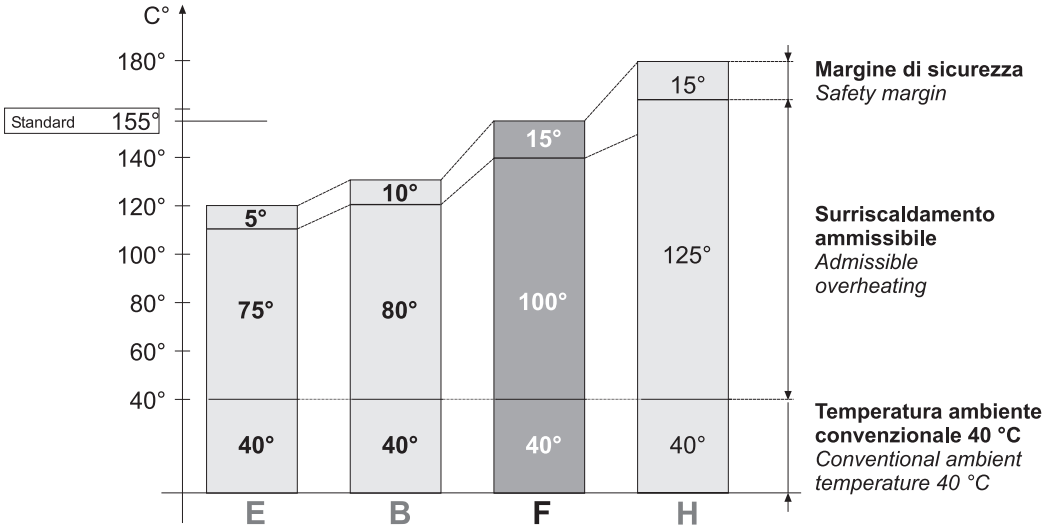
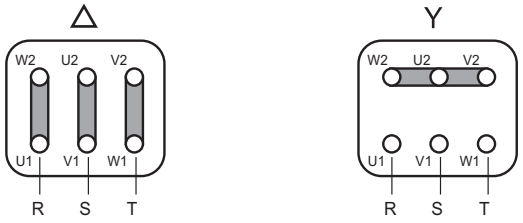


Tabella pressacavi — *Table of cable glands data*

TS - T2A - T3A	Pressacavi *Cable glands*
56	1-M16x1.5
63	1-M16x1.5
71	1-M20x1.5
80	1-M20x1.5
90	1-M20x1.5
100	2-M20x1.5
112	2-M25x1.5
132	2-M25x1.5
160	2-M32x1.5

Connessioni e collegamenti — *Connection diagram*

TS - T2A - T3A - 230 V - 50 Hz (275 V 60Hz) / **400 V - 50 Hz** (480 V 60Hz)



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

Sopra i 3 kW disponibile alimentazione 400 V (triangolo) / 690 V (stella).
Over 3 kW available supply voltage 400 V (delta) / 690 V (star).

Targhetta / *Nameplate*

TS

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CE
3 ASINCHR. MOTOR

03 Type TS6334B14			SN 1912-016
	µF	VL	
	Serv. S3 70%	cos φ	
50 Hz.	0.25 kW / 1400 rpm	Δ 220 - 240/380 - 415 Y V	1.45-1.33 / 0.84-0.77 A
60 Hz.	0.3 kW / 1650 rpm	Δ 264 - 288/456 - 498 Y V	1.45-1.33 / 0.84-0.77 A
IP 55 Is.cl. F	Kg.	OP	warranty void if removed

T2A

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CE IE2
3 ASINCHR. MOTOR

03 Type T2A8014B14PTO			SN 2408-039	
µF VL		Serv. S1	OP	
IP 55 Is.cl. F		8.6 Kg.	cos φ 0.70	
50 Hz.	0.55 kW / 1420 rpm	Δ 230/400 Y V	2.55/1.47 A	
60 Hz.	0.66 kW / 1710 rpm	Δ 275/480 Y V	2.55/1.47 A	
Year of manufacture 2024	50 Hz	100%	75%	50%
warranty void if removed		77.1%	77.1%	73.9%

T3A

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CE IE3
3 ASINCHR. MOTOR

03 Type T3A132M24B5PTO			SN 2408-039	
µF VL		Serv. S1	OP	
IP 55 Is.cl. F		60.2 Kg.	cos φ 0.82	
50 Hz.	9.2 kW / 1460 rpm	Δ 220-240/380-415 Y V	30.8/17.8 A	
60 Hz.	11.04 kW / 1760 rpm	Δ 264-288/456-498 Y V	30.8/17.8 A	
Year of manufacture 2024		100%	75%	50%
warranty void if removed		91.0%	91.5%	90.9%

Note / *Notes*

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