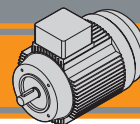




**Motori elettrici asincroni CA**  
**AC asynchronous electric motors**



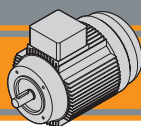




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**Caratteristiche tecniche**

**Technical characteristics**

I motori della serie TS sono tutti dotati di ventola di raffreddamento. Costruiti in alluminio e disponibili nelle versioni B5, B14.

All TS series motors are fan cooled and made with an aluminium frame in version B5, B14.

La serie TS comprende motori ad induzione trifase 230/400 Vca a 50 Hz e 275/480 Vca a 60 Hz 4 poli, per potenze da 0.09 kW fino a 2.2 kW.

TS range includes induction three phase 4 poles motors 230/400 Vac at 50 Hz and 275/480 Vac at 60 Hz, it covers power sizes from 0.09 kW up to 2.2 kW.

Altre caratteristiche standard dei motori TS sono:

Standard features are:

- Isolamento termico di classe F
- Grado di protezione IP55
- Temperatura ambiente: -20 °C ÷ +40 °C.

- Class F thermal insulation
- IP55 enclosure protection
- Ambient temperature: -20 °C ÷ +40 °C.

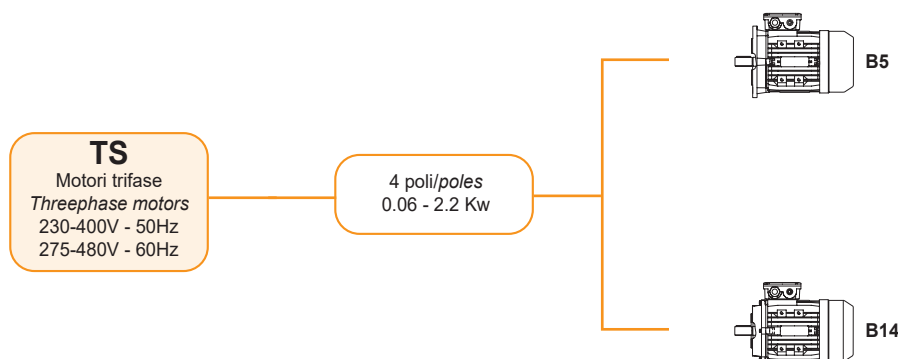
**Designazione**

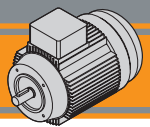
**Classification**

MOTORE TRIFASE / THREE PHASE MOTOR								
TS	63	2	4	0.18	B5	3 ph	230-400 V	50 Hz
Tipo Type	Grandezza Size	Indicativo potenza Power coefficient	Poli Poles	Potenza Power	Forma costruttiva Version	Fasi Phases	Tensione Voltage	Frequenza Frequency
TS trifase threephase	vedi tabelle see tables	1-2-3-S L1-L2	4	0.09 kW ... 2.2 kW	B5 B14	3 ph	230-400 V 275-480 V	50Hz 60Hz

**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
$\cos\varphi$		Fattore di potenza al carico nominale	Power factor at rated torque load
$\eta$		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 $\eta$	Absorbed power x $\eta$
Pot. assorbita Absorbed power	[kW]	$\frac{\sqrt{3} \times I \times PF}{1000}$ (monofase)	$\frac{\sqrt{3} \times I \times PF}{1000}$ (singlephase)
		$\frac{\sqrt{3} \times I \times \sqrt{3} \times PF}{1000}$ (trifase)	$\frac{\sqrt{3} \times I \times \sqrt{3} \times PF}{1000}$ (threephase)
$I_n$ (230 V)		$I_n$ (400 V) x $\sqrt{3}$	$I_n$ (400 V) x $\sqrt{3}$

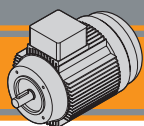
**Dati tecnici**

**Technical data**

**TS Motori trifase / TS Three phase motors**

(230-400 V / 50 Hz - 1400 min<sup>-1</sup>) poli / poles 4

TS	$P_n$ [kW]	$M_n$ [Nm]	$n_n$ [min <sup>-1</sup> ]	$I_n$ (400V) [A]	$\eta$ %	$\cos\varphi$	$M_s/M_n$	$I_s/I_n$	$M_k/M_n$	$M_{sel}/M_n$	LR [dB]	Massa Mass [Kg]	Servizio Duty
562-4	0.09	0.63	1360	0.45	52	0.59	2.3	4	2.4	2	50	3.2	S1
631-4	0.12	0.84	1360	0.55	52	0.64	2.2	4	2.4	2	52	3.7	
632-4	0.18	1.31	1310	0.70	57	0.65	2.2	4	2.4	2	52	4.2	S3 70%
633-4	0.25	1.78	1340	0.91	60	0.66	2.2	4	2.2	2	54	5.0	
711-4	0.25	1.77	1350	0.84	60	0.72	2.2	6	2.4	1.7	55	5.0	
712-4	0.37	2.58	1370	1.11	65	0.74	2.2	6	2.4	1.7	55	5.8	
713-4	0.55	3.80	1380	1.60	66	0.75	2.2	6	2.4	1.7	57	6.5	
714-4	0.75	5.15	1390	2.20	71.3	0.69	2.7	4.2	2.7	2.4	57	7.7	
801-4	0.55	3.83	1370	1.58	67	0.75	2.2	6	2.4	1.7	58	8.1	
802-4	0.75	5.19	1380	1.93	72	0.78	2.2	6	2.4	1.6	58	9.1	
803-4	1.1	7.55	1390	2.67	76.2	0.78	2.2	6	2.4	1.6	60	11.0	
90S-4	1.1	7.50	1400	2.64	76.2	0.79	2.2	6	2.4	1.6	61	11.7	
90L1-4	1.5	10.2	1400	3.45	78.5	0.8	2.2	6	2.4	1.6	61	14.4	
90L2-4	2.2	15.0	1400	4.90	81	0.8	2.2	7	2.4	1.5	63	17.6	
100L1-4	2.2	14.8	1420	4.84	81	0.81	2.2	7	2.3	1.5	64	19.2	



Dimensioni motori trifase serie **TS**

**B5**

**TS Series three phase motor dimensions**

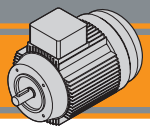
TS	Albero / Shaft					B5											
	D	E	DH	GA	F	P	M	N	S	T	AC	AD	AF	KK	L	LL	V
56	9	20	M3	10.2	3	120	100	80	7	3	117	100	88	1-M16x1.5	196	88	14
63	11	23	M4	12.5	4	140	115	95	10	3	130	108	94	1-M16x1.5	220	94	14
71 1/2 (3/4)	14	30	M5	16	5	160	130	110	10	3.5	147	115	94	1-M20x1.5	241 (255)	94	20
80	19	40	M6	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

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 (3/4)	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	28	60	M10	31	8	160	130	110	M8	3.5	205	152	105	2-M20x1.5	369	105	26



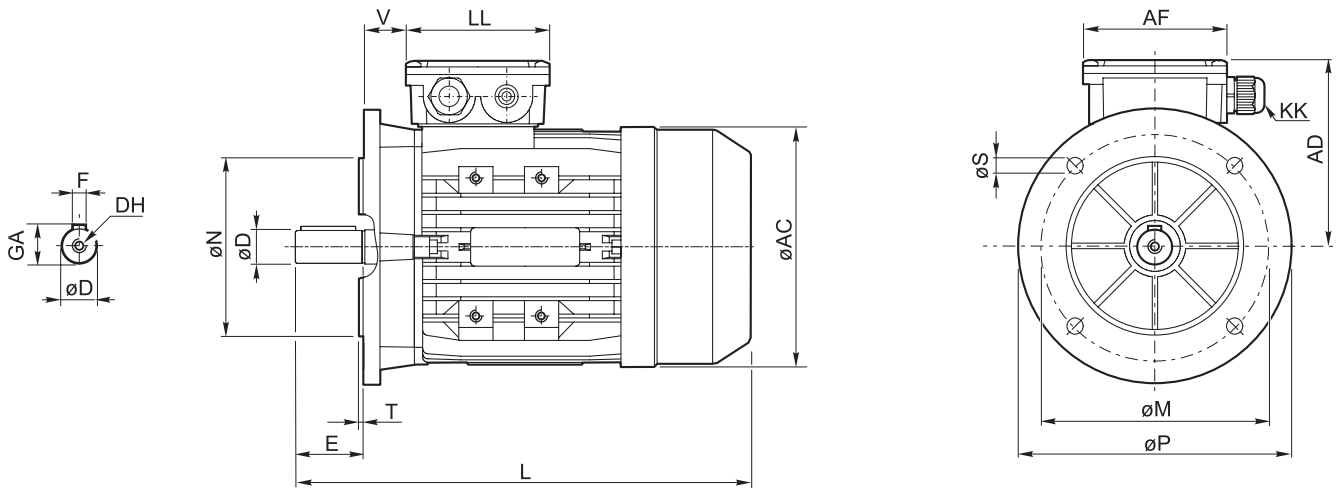
Dati tecnici: dimensioni motori

Technical data: motor dimensions

Dimensioni motori trifase serie **TS**

**B5**

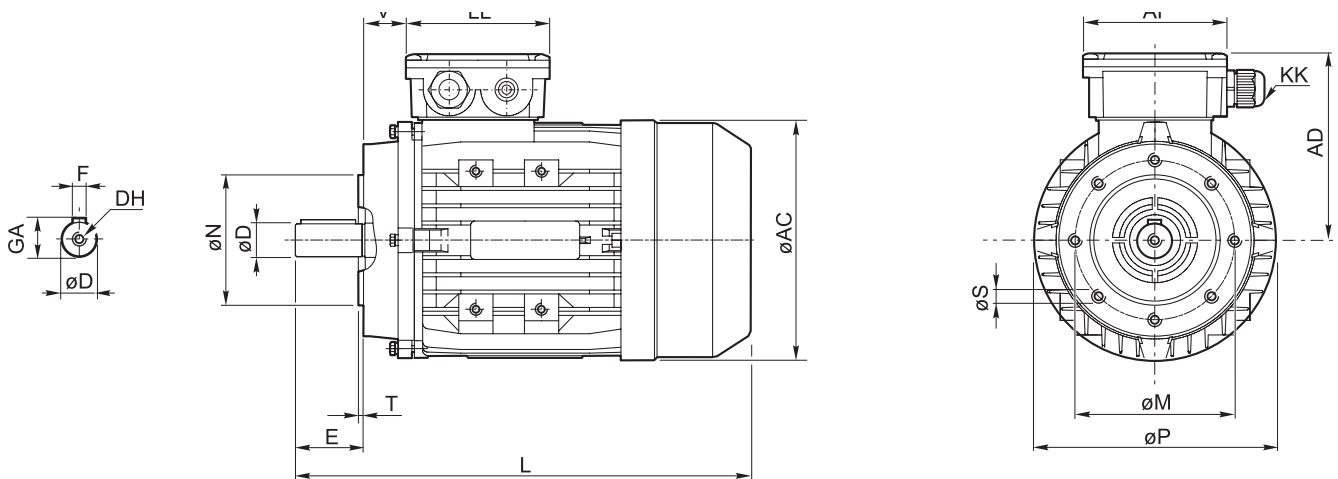
**TS** Series three phase motor dimensions

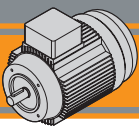


Dimensioni motori trifase serie **TS**

**B14**

**TS** Series three phase motor dimensions





**Tipi di servizio IEC**

**IEC duty cycles**

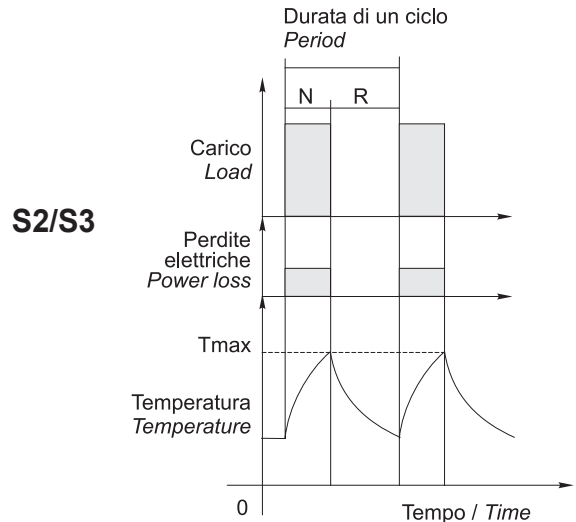
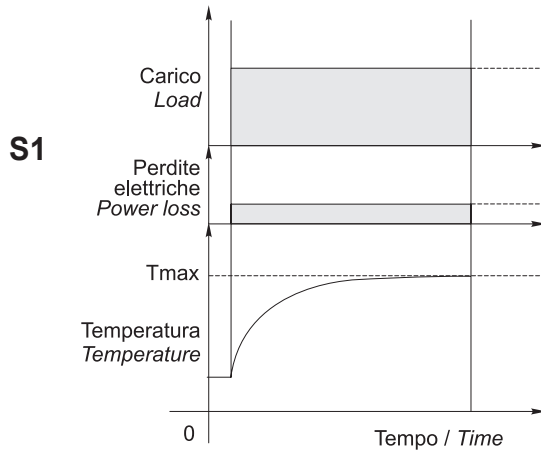
Il servizio di un motore indica il tipo di utilizzo e la gravosità del ciclo di lavoro.

*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.*

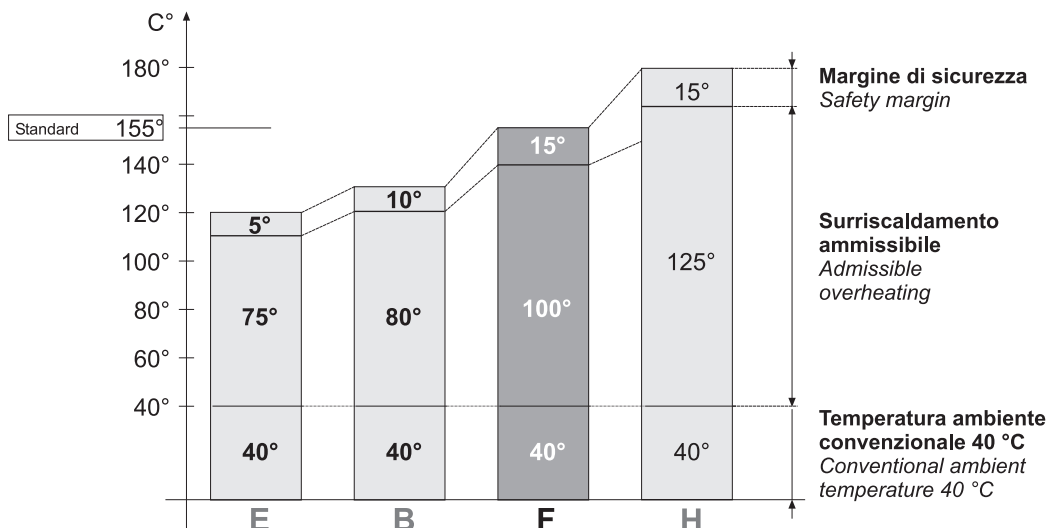
**Classe di isolamento termico**

**Insulation class**

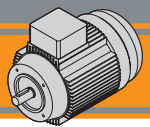
La classe termica indica il grado di resistenza alla temperatura interna, nel punto più caldo (avvolgimenti). Isolamento termico di classe F.

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

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








**Serie TS - Funzionamento a 60 Hz**

**Series TS - 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
<b>400 V</b>	Vedi dati tecnici / see technical data 	Velocità / speed $\approx + 20\%$ Coppia / torque $\approx -20\%$ Potenza / power $\approx$ invariata / the same
<b>480 V</b>	Non permesso / not allowed	Velocità / speed $\approx + 20\%$ Coppia / torque $\approx$ invariata / the same Potenza / power $\approx + 20\%$

**Dati pressacavi**

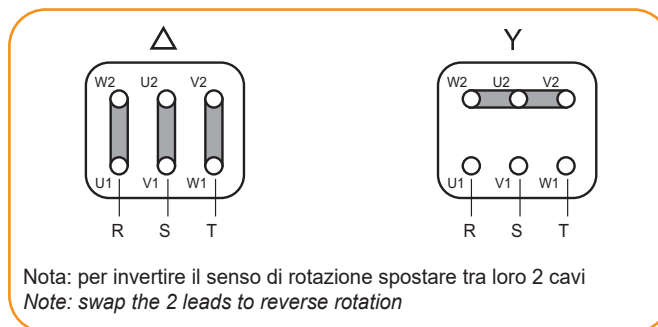
**Cable glands data**

TS	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

**Connessioni e collegamenti**

**Connection diagram**

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



**Targhetta**

**Nameplate**

<b>TRANSTECNO</b> THE MODULAR GEARMOTOR www.transtecnio.com		<b>CE</b>	
		3 ASINCHR. MOTOR	
03 Type	$\mu$ F	VL	SN
	Serv. S 1	cos $\phi$	
50	kW	$\Delta$ 220 - 240/380 - 415 Y	V
Hz.	rpm		A
60	kW	$\Delta$ 264 - 288/456 - 498 Y	V
Hz.	rpm		A
IP 55	Is.cl. F		Kg.OP







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