

ECHTOP[®] MOTOR

SHANGHAI TOP MOTOR CO.,LTD.



NATURE OF MECHANICAL



COMPANY BRIEF INTRODUCTION

Shanghai Top Motor Co., Ltd., one of leading motor manufacturers in China with a famous brand, TECHTOP, specializes in production and sale of electrical produces, which are electric motors conformed to IEC, NEMA, GOST standard, permanent magnet motor, water pumps, generators, generating sets and the likes. The company has obtained ISO9001 Certificate and its products have Certificates of CSA, UL, CE, CCC etc..

Composing a group, there are Shanghai Himak Motor Co., Ltd., Fujian Ningde Top Motor Co., Ltd., Shanghai The-one Co., Ltd., The production capacity is 3,000,000 units with a volume of USD200,000,000

TECHTOP warmly welcomes cooperation with the customers all over the world and provides the best-quality products and most sincere service to the friends.





WORKSHOP & TECHNOLOGY

TECHTOP adopts computerized machine tools for metal parts; four cylinder oil hydraulic presses for stator stacking; vacuum high-pressure vanishing units for stator vanishing; clean-dry and auto-phosphorescing machines for motor housing, end shield, fan cover and other parts; electrostatic spraying-water screen-suspending line complexes for product surface painting.



Various Certificates



ISO9001



General Features

High efficiency motors

The Techtop motors are designed with the new european standard for high efficiency.

MS line, is designing and manufacturing in according to the parameters of the new european classification standard for high efficiency

IE1, IE2.

TA and TC lines, are designed and manufactured in accordance with the parameters of the new european classification standard for high efficiency IE 1, IE2, 1E3

The motors are totally enclosed, fan cooled, with squirrel cage rotor.

MS and TA lines, from frame 56 to frame 200, are provided with aluminium frame.

TC line, from frame 132 to frame 560, is provided with cast iron frame.

IEC 60034-30 standard defines three IE (International Efficiency) efficiency classes of single speed three-phase cage induction motors; 50Hz and 60Hz; 2,4,6 pole; rated voltage up to 1000V; duty type S1 or S3 with a rated cyclic duration factor of 80% or higher operating direct on line

- IE1 standard efficiency
- IE2 high efficiency from 0,75 to 375 Kw, obligatory in Europe from 16.07.2012
- IE3 premium efficiency form 7,5 to 375 Kw, obligatory in Europe from 01.01.2015 and from 0,75 to 375 Kw obligatory in Europe from 01.01.2017

RATED POWER K w	STANDARD EFFICIENCY (IE1) STANDARD POLI-POLES			STANDARD EFFICIENCY (IE2) HIGH POLI-POLES			STANDARD EFFICIENCY (IE3) PREMIUM POLI-POLES			STANDARD EFFICIENCY (IE4) SUPER PREMIUM POLI-POLES		
	2	4	6	2	4	6	2	4	6	2	4	6
0,75	72,1	72,1	70,0	77,4	79,6	75,9	80,7	82,5	78,9	83,5	85,7	82,7
1,1	75,0	75,0	72,9	79,6	81,4	78,1	82,7	84,1	81,0	85,2	87,2	84,5
1,5	77,2	77,2	75,2	81,3	82,8	79,8	84,2	85,3	82,5	86,5	88,2	85,9
2,2	79,7	79,7	77,7	83,2	84,3	81,8	85,9	86,7	84,3	88,0	89,5	87,4
3	81,5	81,5	79,7	84,6	85,5	83,3	87,1	87,7	85,6	89,2	90,4	88,6
4	83,1	83,1	81,4	85,8	86,6	84,6	88,1	88,6	86,8	90,0	92,2	89,5
5,5	84,7	84,7	83,1	87,0	87,7	86,0	89,2	89,6	88,0	90,9	92,9	90,5
7,5	86,0	86,0	84,7	88,1	88,7	87,2	90,1	90,4	89,1	91,7	92,6	91,3
11	87,6	87,6	86,4	89,4	89,8	88,7	91,2	91,4	90,3	92,6	93,3	92,3
15	88,7	88,7	87,7	90,3	90,6	89,7	91,9	92,1	91,2	93,3	93,9	92,9
18,5	89,3	89,3	88,6	90,9	91,2	90,4	92,4	92,6	91,7	93,7	94,2	93,4
22	89,9	89,9	89,2	91,3	91,6	90,9	92,7	93,0	92,2	94,0	94,5	93,7
30	90,7	90,7	90,2	92,0	92,3	91,7	93,3	93,6	92,9	94,5	94,9	94,2
37	91,2	91,2	90,8	92,5	92,7	92,2	93,7	93,9	93,3	94,8	95,2	94,5
45	91,7	91,7	91,4	92,9	93,1	92,7	94,0	94,2	93,7	95,0	95,4	94,8
55	92,1	92,1	91,9	93,2	93,5	93,1	94,3	94,6	94,1	95,3	95,7	95,1
75	92,7	92,7	92,6	93,8	94,0	93,7	94,7	95,0	94,6	95,6	96,0	95,4
90	93,0	93,0	92,9	94,1	94,2	94,0	95,0	95,2	94,9	95,8	96,1	95,6
110	93,3	93,3	93,3	94,3	94,5	94,3	95,2	95,4	95,1	96,0	96,3	95,8
132	93,5	93,5	93,5	94,6	94,7	94,6	95,4	95,6	95,4	96,2	96,4	96,0
160	93,8	93,8	93,8	94,8	94,9	94,8	95,6	95,8	95,6	96,3	96,6	96,2
200	94,0	94,0	94,0	95,0	95,1	95,0	95,8	96,0	95,8	96,5	96,7	96,3
250	94,0	94,0	94,0	95,0	95,1	95,0	95,8	96,0	95,8	96,5	96,7	96,5
315-375	94,0	94,0	94,0	95,0	95,1	95,0	95,8	96,0	95,8	96,5	96,7	96,6

Standards

RATINGS AND PERFORMANCES

IEC 60034-1 CEI EN 60034- 1

METHODS FOR DETERMINING LOSSES AND EFFICIENCY IEC 60034-2 CEI EN 60034-2

ROTATING ELECTRICAL MACHINES, PART 30, EFFICIENCY CLASSES OF SINGLE SPEED, THREE-PHASE INDUCTION MOTORS (IE CODE)

IEC 60034-30 edition 1

CLASSIFICATION OF DEGREES OF PROTECTION (IP CODE) IEC 60034-5 CEI EN 60034-5

METHODS OF COOLING (IC CODE)

IEC 60034 - 6 CEI EN 60034-6

CLASSIFICATION OF TYPE OF CONSTRUCTION MOUNTING ARRANGEMENTS (IM CODE)

IEC 60034-7 CEI EN 60034-7

TERMINAL MARKINGS AND DIRECTION OF ROTATION

IEC 60034-8 CEI 2-8

NOISE LIMITS

IEC 60034-9 CEI EN 60034- 9

BUILT-IN THERMAL PROTECTIONS

IEC 60034-11

STARTING PERFORMANCE OF ROTATING ELECTRICAL MACHINES

IEC 60034- 12 CEI EN 60034 - 12

MECHANICAL VIBRATIONS

IEC 60034-14 CEI EN 60034-14

DIMENSIONS AND OUTPUTS FOR ELECTRICAL MACHINES

CEI EN50347 IEC 60072-1 IEC 60072-2

The coupling dimensions are in compliance with the following standards:

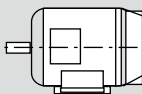
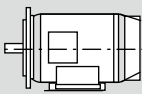
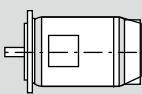
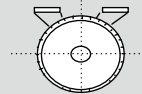
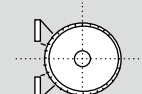
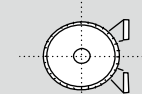
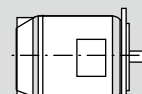
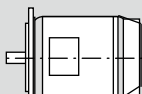
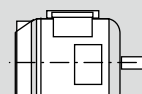
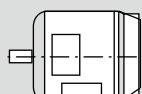
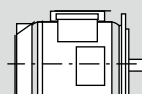
UNEL 13113-71 for the B3 mounting and for other frame shapes

UNEL 13117-71 for the B5 mounting and for other frame shapes

The UNEL standards are in accordance with the IEC international standards publication 72 and relative Amendment Nr. 1.

Mounting and Positions

Frame according to IEC 60034-7, are defined in the following table:

FIGURE	STANDARDS			FRAME SIZES		
		IEC 60034-7		56–160	180–280	315–355
	CEI 2-14	Code I	Code II			
	B 3	IM B 3	IM 1001	standard		
	B 3/B 5	IM B 35	IM 2001	standard		
	B 5	IM B 5	IM 3001	standard	standard	upon request
	B 8	IM B 8	IM 1071	standard	upon request	upon request
	B 6	IM B 6	IM 1051	standard	upon request	upon request
	B 7	IM B 7	IM 1061	standard	upon request	upon request
	V 1	IM V 1	IM 3011	standard		
	V 3	IM V 3	IM 3031	standard	standard	upon request
	V 5	IM V 5	IM 1011	upon request	upon request	upon request
	V 6	IM V 6	IM 1031	upon request	upon request	upon request
	V 1 / V 5	IM V 15	IIM 2011	standard	standard	upon request

Ingress Protection

The motors protection degrees according to IEC 60034-5 standards, are:

IP 55 (standard) totally enclosed motors, fan cooled, protected against penetration of dust and water splashes coming from any direction

IP 56 (upon request) totally enclosed motors, protected against dust penetration and against sea waves, for use on deck.

Normally IP56 motors are supplied with external fan (IC 411 - IC 416 or IC 418).

Upon request they can be supplied without fan. (IC410). In this case the features, outputs and technical data will be supplied upon request.

The external fan is covered by a fan cover with IP 20 protection degree, in line with safety standards.

Motors for vertical mounting V1, V5, V1N 5, are supplied with rain cowl.

The terminal box, in aluminium or cast iron, has IP 55 or IP56 protection degree.

General Construction Features

The motors have been designed and manufactured in compliance with international standards.

TA and MS series are available from frame size 56 to frame size 200.

Frame and terminal box are in aluminium, cover fan cover is in sheet steel, flanges and shields are in aluminium.

TC series is available from frame size 132 to frame size 355.

Frame and terminal box are in cast iron, cover fan cover is in sheet steel, flanges and shields are in cast iron.

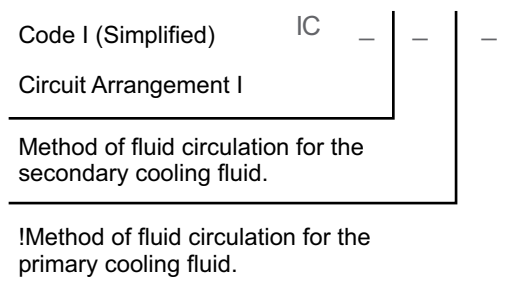
The terminal box, standard is on the top of the motor, can be rotated in step of 90°, can transform motors with terminal box on left or on right from frame size 56 to frame size 280.

Fans are in nylon, upon request can be supplied with fans in aluminium or steel sheet.

Feet are removable, on all series, from frame size 56 to frame size 280.

Cooling

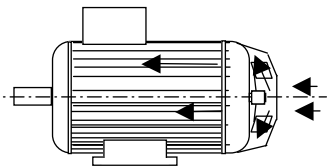
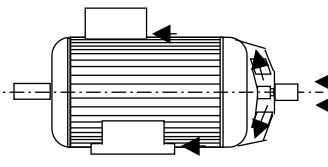
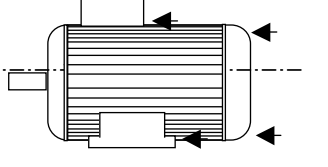
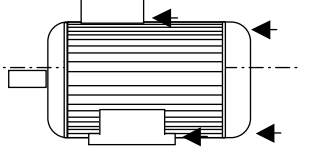
The designation of cooling method is given by the IC (International Cooling) code, according to IEC 60034-6



Motors in standard execution of frame sizes from 56 to 355 are supplied with IC 411 cooling systems, incorporating a bidirectional fan.

All frame sizes can be supplied with cooling system IC 416 on request.

In this case a proper fan is fitted inside the fan cover, suitably reinforced, in order to make the ventilation independent of the rotation speed.

IC CODE	FIGURE	DESCRIPTION	NOTE
IC 411		Self ventilating motor. Enclosed machine. Externally finned. External shaft-mounted fan.	Standard
IC 416		Motor with assisted ventilation. Enclosed machine. Externally finned. Independent external fan mounted inside the fan cover.	Upon request
IC 418		Motor with external ventilation. Enclosed machine. Externally finned ventilation provided by air flowing from the driven system.	Upon request
IC 410		Motor with natural ventilation. Enclosed machine.	Upon request

Bearings and Oil Seals

Motors TA and MS series from frame size 56 to frame size 200 have sealed pre-lubricated ball bearings, DE and NDE side, C3. Motors TC series frame size 132 have sealed pre-lubricated ball bearings, DE and NDE side, C3. Motors TC series from frame size 160 to frame size 280 (including 315 2 pole) have ball bearings, DE and NDE, C3. Motors TC series from frame size 315 (4,6,8 pole) to frame size 355, have roller bearings DE side and ball bearings NDE side.

All non pre-lubricated bearings need to periodically re-lubricated according to the data give in the motors maintenance manual. Motor with bearing axial constraints have an arrangement with a spring in order to absorb vibrations.

The lifetime of bearings (in accordance with supplier data) is in excess of 40.000 hours, for motors with direct coupling.

In table are mentioned all specifications concerning bearings installed on motors frame size 56-355

MOTOR TYPE	Bearing		Oil seals
	Drive end	Non-drive end	dxDxB
MS 56	6201-2RS	6201-2RS	12x22x5
MS 63	6201-2RS	6201-2RS	12x24x5
MS 71	6202-2RS	6202-2RS	15x25x7
MS 80	6204-2RS	6204-2RS	20x34x7
MS 90	6205-2RS	6205-2RS	25x37x7
MS 100	6206-2RS	6206-2RS	30x44x7
MS 112	6306-2RS	6206-2RS	30x44x7
MS 132	6308-2RS	6208-2RS	40x58x7
MS 160	6309-2RS	6309-2RS	45x65x8
MS 180	6311-2RS	6211-2RS	55x72x8
MS 200	6312-2RS	6212-2RS	60x80x8
TA 56	6201-2RS	6201-2RS	12x22x5
TA 63	6201-2RS	6201-2RS	12x22x5
TA 71	6202-2RS	6202-2RS	15x25x7
TA 80	6204-2RS	6204-2RS	20x34x7
TA 90	6205-2RS	6205-2RS	25x37x7
TA 100	6206-2RS	6206-2RS	30x44x7
TA 112	6306-2RS	6206-2RS	30x44x7
TA 132	6308-2RS	6208-2RS	40x58x7
TA 160	6309-2RS	6209-2RS	45x65x8
TA 180	6311-2RS	6211-2RS	55x72x8
TA 200	6312-2RS	6212-2RS	60x80x8

MOTOR TYPE	Bearing		Oil seals
	Drive end	Non-drive end	dxDxB
TC 80	6204-2RS	6204-2RS	20x34x7
TC 90	6205-2RS	6205-2RS	25x37x7
TC 100	6206-2RS	6206-2RS	30x44x7
TC 112	6306-2RS	6306-2RS	30x44x7
TC 132	6308-2RS	6308-2RS	40x58x7
TC 160	6309C3	6309C3	45x65x8
TC 180	6311C3	6311C3	55x75x8
TC 200	6312C3	6312C3	60x80x8
TC 225	6313C3	6313C3	65x90x10
TC 250	6314C3	6314C3	70x95x10
TC 280	6316C3	6316C3	80x100x10
TC 315-2	6317C3	6317C3	85x110x12
TC 315-4/6/8	NU319	6319C3	95x120x12
TC 355-2	6319C3	6319C3	95x120x12
TC 355-4/6/8	NU322	6322C3	110x130x12

Upon request can be mounted, roller bearings at DE side, where non-standard, insulated bearings at NDE side , and reinforced bearings at NDE side.

Terminal Box

The terminal board is normally equipped with 6 terminal and is made with non hygroscopic and mildew resistance material.

Terminal box for TA and MS series is made in aluminum, in cast iron for TC series.

Terminal box has IP 55 standard protection degree or IP56.

In the series TA and MS from size 56 to size 90 are mounted a cable-holder and a plug, from size 100 to size 200 are mounted two cable-holder, from size 160 up is mounted a cable-holder M16x1,5 for PTC connection.

In the TC series are mounted two cable-holders. from size 160 up is mounted a cable-holder M 16x 1,5 for PTC connection.

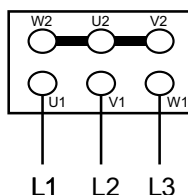
Generally. a cable-holder with the following dimensions is provided for:

FRAME	CABLE-HOLDER	FRAME	CABLE-HOLDER
TA/MS 56	1-M16x1,5	TC 132	2-M25x1,5
TA/MS 63	1-M16x1,5	TC 160	2-M32x1,5+1M16x1,5
TA/MS 71	1-M20x1,5	TC 180	2-M32x1,5+1M16x1,5
TA/MS 80	1-M20x1,5	TC 200	2-M40x1,5+1M16x1,5
TA/MS 90	1-M20x1,5	TC 225	2-M50x1,5+1M16x1,5
TA/MS 100	2-M20x1,5	TC 250	2-M50x1,5+1M16x1,5
TA/MS 112	2-M25x1,5	TC 280	2-M50x1,5+1M16x1,5
TA/MS 132	2-M25x1,5	TC 315	2-M63x1,5+1M16x1,5
TA/MS 160	2-M32x1,5+1-M16x1,5	TC 355	2-M63x1,5+1M16x1,5
TA/MS 180	2-M40x1,5+1M16x1,5		
TA/MS 200	2-M40x1,5+1M16x1,5		

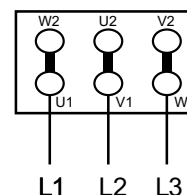
Connection

Single speed motors

connection star Y
highest voltage on plate

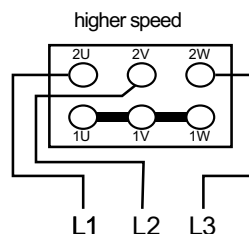
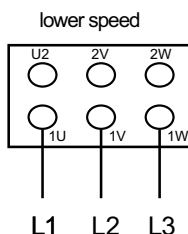


connection delta Δ
lower voltage on plate

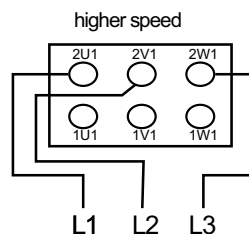
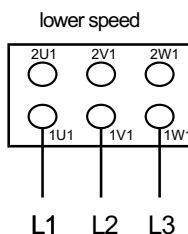


Double speed motors

Dahlander
single winding
6 terminals



Two separate windings
6 terminals



Insulation, Winding

The motors of the series MS,TA,TC are made in F insulation class.

The soft copper electrolytic wire is insulated by using a special enamel (double enamel). Such enamel is classified as H insulation class.

All insulating materials used to produce motors are in F or H insulation class.

The winding undergoes a treatment as follows: it is impregnated by soaking it in oven-curing F class resins, it is tropicalized following a process including a spraying of anti-salty enamel and, finally, it is coated using a spray with heatproof, humidity-proof, chemical agent and sea-ambient corrosive action resistant characteristics.

The impregnation cycle is carried out under vacuum.

Ratings and Technical Data

Power and data reported in the Technical Data Tables are for continuous duty (S 1) at an ambient temperature of 40 C, max. altitude 1000 a.s.l., with supply at 400 V - 50Hz.

In such conditions, the temperature rise reached by the motors is lower than the one provided for by the 8 insulation class.

The operating characteristics are guaranteed with the tolerances defined by the CEI EN 60034-1 Standards and the IEC 60034-1 Recommendations, reported in the table

CHARACTERISTICS	TOLERANCES
Efficiency	Motor power < 50 kW -15% di (1 - η) Motor power > 50 kW -10% di (1 - η)
Power factor	+1/6 (1- $\cos\phi$) Min 0.02 Max 0.07
Locked rotor current	+20% of guaranteed value
Locked rotor torque	-15% + 25% of guaranteed value
Pull out torque	-10% of guaranteed value
Slip	$\pm$ 20% of guaranteed value

Supply Voltage

The motors, series MS,TA,TC from frame size 56 to frame size 250 are designed to be used for supply at rated voltages from 220V to 690V at 50Hz and at 60Hz, motors from frame size 280 to frame size 355 are designed to be used for supply at rated voltages from 400V to 690V at 50Hz and at 60 Hz.

Standard rated voltages of the motors usually in stock are:

from frame size 56 to frame size 100, 230/400V 50Hz

from frame size 112 to frame size 355, 400/690V 50Hz

Lower voltage is made with delta connection while the higher voltage is made with star connection.

In these supply conditions efficiencies are in compliance with the IEC 60034-30.

Voltage and Frequency Variations

Motors can work without failures if the supply voltage variations are limited as stated in the Classification Society Standards.

In particular, motors can run with voltage variations of 10% and frequency variations of 5% with a maximum combined variation of 10% with temperature rise in compliance with the provisions of the Classification Society Standards.

Operation at 60Hz Frequency

The motors can run with a frequency of 60 Hz with differences in performances and electrical sizes applying the multiplicative coefficients as described in the table. For motors made at 50Hz and supply at 60Hz, efficiency class of the motor at 50Hz is no longer valid.

PLATE VOLTAGE	PLATE VOLTAGE	NOMINAL POWER	NOMINAL CURRENT	NOMINAL TORQUE	RPM	STARTING CURRENT	STARTING TORQUE	MAX TORQUE
50 HZ	60 HZ							
230 +/- 10%	220 +/- 5%	1	1	0.83	1.2	0.83	0.83	0.83
230 +/- 10%	230 +/- 10%	1	0.95	0.83	1.2	0.83	0.83	0.83
230 +/- 10%	254 +/- 5%	1.15	1.02	0.96	1.2	0.93	0.93	0.93
230 +/- 10%	277 +/- 5%	1.2	1	1	1.2	1	1	1
400 +/- 10%	380 +/- 5%	1	1	0.83	1.2	0.83	0.83	0.83
400 +/- 10%	400 +/- 10%	1	0.95	0.83	1.2	0.83	0.83	0.83
400 +/- 10%	440 +/- 5%	1.15	1.02	0.96	1.2	0.93	0.93	0.93
400 +/- 10%	460 +/- 10%	1.15	1	0.96	1.2	0.96	0.96	0.96
400 +/- 10%	480 +/- 5%	1.2	1	1	1.2	1	1	1

Deratings

The tables of technical data are referred to an ambient temperature of 40°C and an altitude up to 1000 a.s.l. In different environmental conditions output ratings vary, and are obtainable by applying the factors as mentioned in the following table, maintaining the temperature rise provided for by the B insulation class.

ALTITUDE M A.S.L.	AMBIENT TEMPERATURE (°C)					
	30	30-40	45	50	55	60
<= 1000	1.06	1	0.97	0.94	0.90	0.87
1500	1.04	0.97	0.94	0.91	0.87	0.84
2000	1	0.95	0.92	0.88	0.84	0.81
3000	0.96	0.89	0.86	0.82	0.78	0.74
4000	0.91	0.84	0.80	0.76	0.72	0.67

In case the temperature rise permitted for the F insulation class is used, the corrective factors are the same mentioned in the following table:

ALTITUDE M A.S.L.	AMBIENT TEMPERATURE (°C)					
	30	30-40	45	50	55	60
<= 1000	1.17	1.12	1.09	1.06	1.03	1
1500	1.15	1.10	1.07	1.04	1.01	0.97
2000	1.13	1.07	1.04	1.01	0.98	0.95
3000	1.08	1.02	0.99	0.96	0.93	0.89
4000	1.04	0.97	0.94	0.91	0.87	0.84

Duties

All technical data reported in the tables are referred to continuous duty (S 1). Upon request, motors for limited Duty S2 (30 or 60 minutes) can be supplied.

Overloads

Continuous duty motors can withstand the following overloads

OVERLOAD %	DURATION MINUTES	TIME INTERVAL MINUTES
10	10	15
20	6	15
30	4	15
40	3	15
50	2	15

In these operating overloads conditions, over temperature are than the limits of the insulation class F.

Starting

Motors are suitable for the following types of starting:

- Direct
- Star - delta
- By autotransformer
- Soft-start (*)
- by inverter (**)

(*)when the starting is finished soft-start should be by-passed, or precaution must be used the same when the motor powered with inverter

(**) see as recommended in the paragraph n.23 "Inverter Supply"

Vibrations

Motors are dynamically balanced with a half key applied to the shaft extension in accordance with standard IEC 60034-14 to vibration severity grade normal (N) in standard execution.

The following table indicates the maximum vibration grades with respect to the different shaft heights.

VIBRATION DEGREE	RATED SPEED	FRAME SIZE 56-355 Vmm/sec
N (normal)	600-1800	1.8
R (reduced)	600-1800	0.71
	1800-3600	1.12
S (special)	600-1800	0.45
	1800-3600	0.71

Noise

The technical features table contains the values of A-sound pressure level (LpA) and A sound power level (LwA), measured at a one meter distance.

Sound levels are measured in no-load conditions and have tolerances of 3 dB(A).

FRAME SIZE	A-sound pressure level (LpA) · A-sound power level (LwA) dB(A)							
	2POLES		4POLES		6POLES		8POLES	
	LpA	LwA	LpA	LwA	LpA	LwA	LpA	LwA
56	69	78	63	72	58	67	54	63
63	75	84	67	76	61	70	58	67
71	75	84	67	76	61	70	58	67
80	75	84	70	79	63	72	61	70
90	75	85	70	80	66	76	66	76
100	77	87	70	80	66	76	66	76
112	78	88	73	83	66	76	66	76
132	69	78	63	72	58	67	54	63
160	75	84	67	76	61	70	58	67
180	75	84	67	76	61	70	58	67
200	75	84	70	79	63	72	61	70
225	75	85	70	80	66	76	66	76
250	77	87	70	80	66	76	66	76
280	78	88	73	83	66	76	66	76
315	80	90	77	87	73	83	69	79
355	86	97	84	96	82	94	79	91

The values of the noise (LpA) and of the sound power (LwA) in the table are related to the operation at 50Hz, when the frequency changes these values change how indicated in the following tabel:

SUPPLY FREQUENCY HZ	% VALUE OF THE NOISE LEVEL COMPARED TO THE 50HZ VALUE
10	60%
20	60%
30	70%
40	100%
50	100%
60	100%
80	120%

Thermal Protections

All the Techtop motors from frame size 160 to frame size 355 have installed the positive temperature coefficient thermistors PTC, these protections at the active temperature this device quickly changes its standard resistance value, these protection, upon request, will be installed from frame size 56 to frame size 132.

Resistance of PTC, for nominal operating temperature (TK), will be satisfy the following value:

- < 250 Ohm from temperature from -20°C to TK-20°C
- < 550 Ohm at a temperature of TK-5°C
- > 1330 Ohm at a temperature of TK+5°C
- > 4000 Ohm at a temperature of TK+15°C

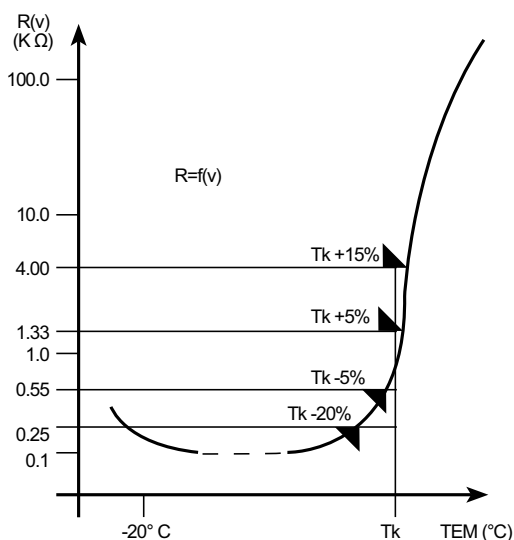
In line with the standards, PTC installed disengaged for resistance value from 1650 Ohm to 4000 Ohm, in our case, installed n. 3 PTC in series, disengaged takes in the temperature range from TK-5°C to TK+5°C.

Values of TK related with the class of insulation are the following:

CLASS OF INSULATION	OPERATING TEMPERATURE LIMIT OF THE INSULATION °C	TK °C
A	105	95-100
E	120	110-115
B	130	120-125
F	155	145-150
H	180	170-175

The nominal operating temperature of the thermistors PTC, mounted on the Techtop motors is 150' C, maximum supply voltage of the PTC theristors is 2,5V.

Below the characteristic resistance/ temperature of the PTC thermistors:



Upon request, the following thermal protections can be installed on the motors:

Bimetallic devices

Motor protectors with contact normally closed. The contact opens when the winding temperature reaches limits dangerous to the insulation system of the motor.

Platinum resistance thermometers PT100

Variable linear resistance with the winding temperature. Device particularly suitable for a continuous winding temperature monitoring.

The protection is normally made by 3 sensitive elements, one for every phase, series connected and with two terminals in a specially provided terminal board located in the main terminal box or in a specially provided auxiliary terminal box.

Anticondensation heaters

Motors subject to atmospheric condensation, either through standing idle in damp environments or because of wide ambient temperature variations, may be fitted with anticondensation heaters.

They are of tape form and are normally mounted on the stator winding head.

Anticondensation heaters are normally switched on automatically when the supply to the motor is interrupted, heating the motor to avoid water condensation.

Normal supply voltage is 115 V or 220/240V.

Anticondensation heater terminals are led to a specially provided terminal board located in the main terminal box. Upon request they can be led to a terminal board located in an auxiliary terminal box.

The power values normally used are shown in the table :

FRAME SIZE	POWER (W)
132-160	26
180-200	26
225-250	50
280-315	100
355	200

Drainage hole

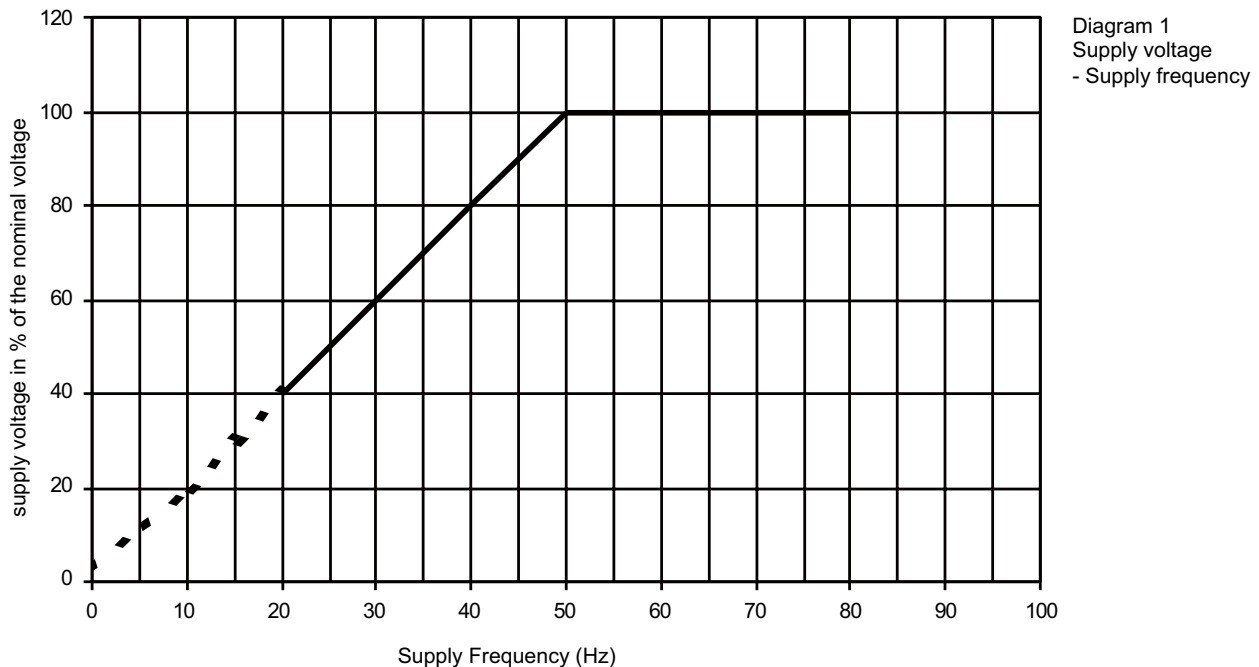
Motors of series MS, TA, TC are provided with holes for the discharge of condensate closed with a plug to guarantee the degree of protection IP reported on plate.

As a function of the operating conditions such plugs can be removed to allow the discharge of condensate that may form inside the motor.

Inverter Supply

Techtop motors series MS,TA,TC are designed to be supplied by inverter.

These motors can be driven up to the rated frequency (50Hz) with supply voltage proportional to the frequency. (See diagr. 1), at higher frequencies they can be supplied at constant voltage



By the type of supply shown in diagr. 1, the flux created by the stator windings will be constant from 0 frequency to 50 Hz frequency, at frequencies higher than 50 Hz, the flux will be lower than the maximum nominal value.

Note: At low frequencies (0~10Hz.) due to the voltage drops, in order to keep the flux constant, the supply voltage should be slightly increased. This voltage increase depends both on the motor type and on the inverter type.

Consequently the motors in standard execution (self ventilating code IC411) are able to run at constant torque between 40 and 50 Hz and at constant power in the section included between 50 and indicated value on the diagram 4.

Upon request, the MS,TA,TC series motors can be equipped with an auxiliary fan (code IC 416), in this case they can supply a constant torque between 0 and 50 Hz and a constant power in the section included between 50 and indicated value on the diagram 4.

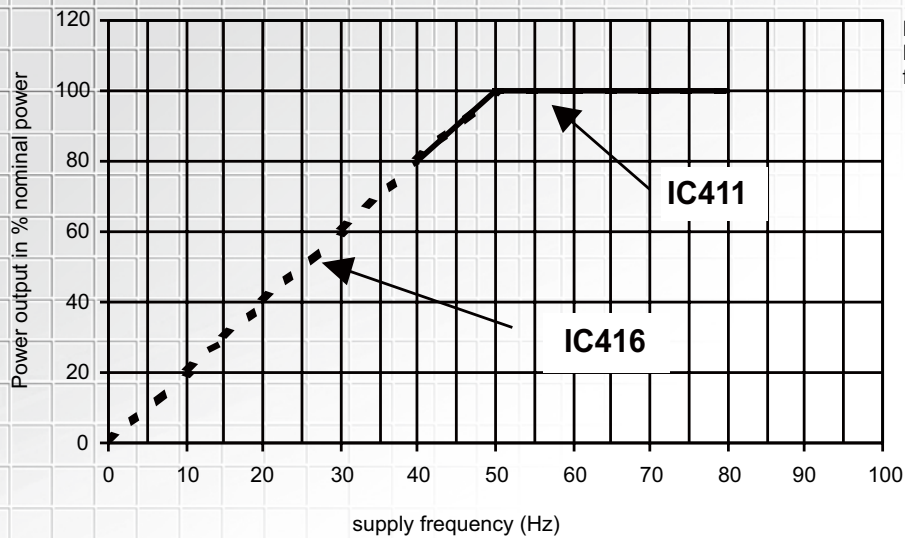


Diagram 2
Power output - supply frequency

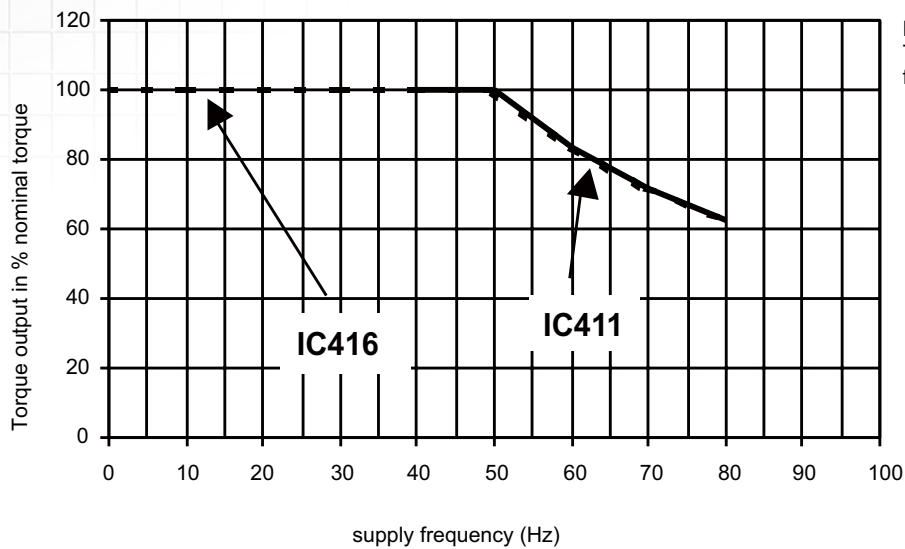


Diagram 3
Torque output - supply frequency

The asynchronous three-phase motors to be used for inverter supply are designed and manufactured based on design and manufacturing choices that allow an optimum and reliable operation.

It has to be considered that generally the inverter supplies the asynchronous motor with a non sinusoidal current having a certain harmonic contents. This is due in particular: to the type of inverter, to the value of the switch frequency, to the length of the supply cables.

Moreover steep voltage fronts to the motor terminals (dv/dt) originated by the short commutation times of the IGBT, generate considerable stresses on the insulating materials.

Consequently the motor insulation must be carried out with the utmost care because it has to be able to withstand such higher stresses.

Maximum Speed

Motors supplied by inverter can run at a frequency higher than the rated one supplying the rated power up to the maximum frequency mentioned in the Diagram 4.

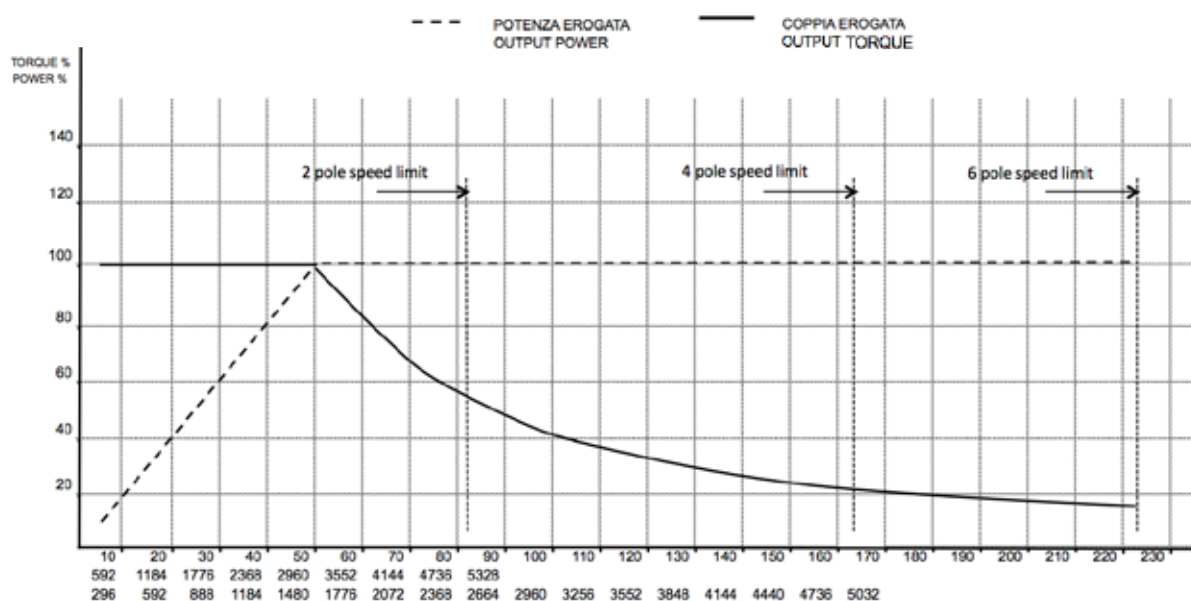
In these conditions the motor maximum torque remains 1.6 times higher than the rated torque.

It is also possible to supply motors at an higher frequency, in this case the deliverable motor powers will be progressively reduced.

In any case the motor maximum speeds, also at no load operation or dragged by the machine, must never exceed the limit mentioned in the following table:

FRAME SIZE	MAX PERMISSIBLE SPEED			
	2 POLES	4 POLES	6 POLES	8 POLES
132	5000	5000	4500	4500
160	5000	5000	4500	4500
180	5000	5000	4500	4500
200	5000	5000	4500	4500
225	4500	4500	4000	4000
250	4000	4000	3800	3800
280	4000	3000	3000	3000
315	3600	2600	2600	2600
355	3600	2600	2600	2600

Maximum allowable curves, continuous duty S1, 2,4,6 poles motor with forced ventilation (IC416)



Auxiliary Fans

All frame sizes can be supplied with cooling system IC 416 (forced ventilation) on request. In this case a proper fan is fitted inside the fan cover, suitably reinforced.

Consequently the ventilation is independent of the rotation speed of the motor itself.

This solution is particularly suitable for inverter supplied motors.

Auxiliary fans three phase

TYPE	SPEED (r/min)	MAXIMUM AIR FLOW (m³/h)	MAXIMUM PRESSURE (pa)	NOISE dB(A)
63	2800	45	40	62
71	2800	52	50	62
80	2800	58	60	62
90	2800	91	80	65
100	2750	142	80	67
112	2600	229	80	67
132	1400	337	35	69
160	1390	609	40	72
180	1330	686	55	72
200	1230	1679	65	72
225	1430	1786	70	74
250	1420	1813	80	75
280	1360	2415	85	78
315	1320	2820	110	81
355	900	3500	800	85

3PHASE (v)	INPUT CURRENT (A)	Hz	INPUT POWER (w)
230	0,124	50	20
230	0,132	50	25
230	0,132	50	29
230	0,142	50	32
230	0,291	50	58
230	0,297	50	69
230	0,330	50	52
230	0,430	50	70
230	0,430	50	85
230	0,446	50	105
230	0,611	50	75
230	0,661	50	115
230	0,925	50	180
230	1,289	50	480
230	1,652	50	400

TYPE	SPEED (r/min)	MAXIMUM AIR FLOW (m³/h)	MAXIMUM PRESSURE (pa)	NOISE dB(A)
63	2800	45	40	62
71	2800	52	50	62
80	2800	58	60	62
90	2800	91	80	65
100	2750	142	80	67
112	2600	229	80	67
132	1400	337	35	69
160	1390	609	40	72
180	1330	686	55	72
200	1230	1679	65	72
225	1430	1786	70	74
250	1420	1813	80	75
280	1360	2415	85	78
315	1320	2820	110	81
355	900	3500	800	85

3PHASE (v)	INPUT CURRENT (A)	Hz	INPUT POWER (w)
400	0,071	50	20
400	0,076	50	25
400	0,076	50	29
400	0,082	50	32
400	0,167	50	58
400	0,171	50	69
400	0,190	50	52
400	0,247	50	70
400	0,247	50	85
400	0,257	50	105
400	0,352	50	75
400	0,380	50	115
400	0,532	50	180
400	0,741	50	480
400	0,950	50	400

Auxiliary Fans

Auxiliary fans three phase

TYPE	SPEED (r/min)	MAXIMUN AIR FLOW (m³/h)	MAXIMUM PRESSURE (pa)	NOISE dB(A)
63	2800	45	40	62
71	2800	52	50	62
80	2800	58	60	62
90	2800	91	80	65
100	2750	142	80	67
112	2600	229	80	67
132	1400	337	35	69
160	1390	609	40	72
180	1330	686	55	72
200	1230	1679	65	72
225	1430	1786	70	74
250	1420	1813	80	75
280	1360	2415	85	78
315	1320	2820	110	81
355	900	3500	800	85

3PHASE (v)	INPUT CURRENT (A)	Hz	INPUT POWER (w)
690	0,041	50	20
690	0,044	50	25
690	0,044	50	29
690	0,047	50	32
690	0,097	50	58
690	0,099	50	69
690	0,110	50	52
690	0,143	50	70
690	0,143	50	85
690	0,149	50	105
690	0,204	50	75
690	0,220	50	115
690	0,308	50	180
690	0,430	50	480
690	0,551	50	400

Auxiliary fans single phase

TYPE	SPEED (r/min)	MAXIMUN AIR FLOW (m³/h)	MAXIMUM PRESSURE (pa)	NOISE dB(A)
63	2800	45	40	62
71	2800	52	50	62
80	2700	58	60	62
90	2300	91	80	65
100	2700	142	80	67
112	2400	229	80	67
132	1400	337	35	69
160	1400	609	40	72
180	1200	686	55	72
200	1200	1679	65	72
225	1400	1786	70	74
250	1400	1813	80	75
280	1400	2415	85	78

3PHASE (v)	INPUT CURRENT (A)	Hz	INPUT POWER (w)	μF
230	50	17	0,12	1
230	50	33	0,17	2
230	50	35	0,18	2
230	50	45	0,2	3
230	50	55	0,3	2
230	50	65	0,37	2
230	50	55	0,35	3
230	50	55	0,28	4
230	50	80	0,4	4
230	50	85	0,4	4
230	50	85	0,5	6
230	50	120	0,9	6
230	50	170	0,95	10

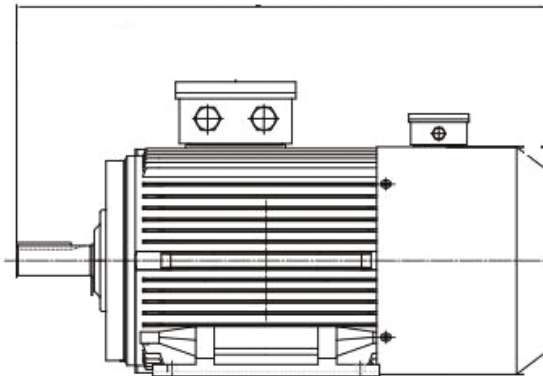
Auxiliary Fans

All frame sizes can be supplied with cooling system IC 416 (forced ventilation) on request In this case a proper fan is fitted inside the fan cover, suitably reinforced. Consequently the ventilation is independent of the rotation speed of the motor itself. This solution is particularly suitable for inverter supplied motors.

In the following table shown to what ncreases the dimension L when indipendent ventilation is mounted. When encoder is mounted with indipendent ventilation dimension L does not change remains the of the motor with indipendent ventilation.

TYPE	MS SERIES (mm)	TA SERIES (mm)	TC SERIES (mm)
63	92	92	–
71	92	105	–
80	98	110	–
90	97	110	–
100	103	120	–
112	93	125	–
132	109	120	120
160	–	145	130
180	–	–	130
200	–	–	140
225	–	–	160
250	–	–	167
280	–	–	175
315	–	–	205
355	–	–	205

L standard motor+measure indicated in the table



Permissible Load On The Bearings

The theoretical basic fatigue life for bearings is calculated according to the provisions of the ISO R 281-1 Standard. Life is calculated assuming that motors are running under normal ambient conditions, without abnormal vibrations, without axial or radial loads beyond the ones mentioned in the following tables and with operating temperatures of the bearings ranging between - 30 and +85 C'.

Life calculated this way is called basic life (L_{10h}) expressed in hours of operation.

50% of bearings reaches a life equal to five times the basic life resulting from the calculation.

In table 13 are mentioned the maximum permitted axial and radial loads for a basic life (L_{10h}), calculated according to the provisions of the ISO Standards, equal to 20000 and 40000 hours of operation.

Values of the radial loads are given both for loads applied to the shaft extension (X_{max}) and in correspondence of the face on the shaft hub (X_0).

Radial loads that can be applied linearly, change with the change of the application point, therefore for loads placed at a distance X from the shaft face (X_0), the maximum load that can be applied is given by the following expression:

$$F_{raX} = \frac{C_{X_0} - C_{X_{max}}}{X_{max}} \times X + C_{X_{max}}$$

Where:

F_{ra} = permitted radial load at point X

C_{X_0} = permitted radial load at point X_0

$C_{X_{max}}$ = permitted radial load at point X_{max}

X_{max} = shaft extension

X = distance from the application point of the radial load to the shaft face

To verify that the belt pull does not exceed the maximum value allowed the following formula can be used:

$$F = \frac{19100 \times P \times K}{n \times D}$$

F= radial force in Nm

P= power transmitted in KW

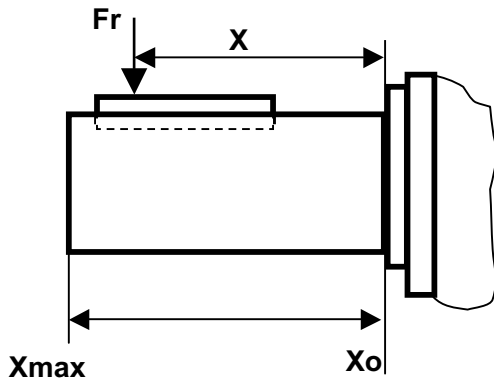
n= numbers of revs. per minute

D= pulley diameter in meters

K= constant

Constant values K:

2	for flat pulley with tension roller
2,25	for sheaves with V belt
2,5-3	for flat belts without tension roller, or for heavy duty with any type of pulley



The maximum allowable radial forces, at the shaft X_{max} and at the shaft collar X_0 , reported in the following pages are for motors having the following characteristic: standard construction, horizontal mounting IMB3 or IMB35 only, operating frequency 50Hz, bearing life of 20000 or 40000 hours according to ISO 281:1990, bearing operating temperature between -20°C to +70°C, NO external axial forces, motor installed on a rigid foundation with negligible structural vibrations.

The maximum allowable axial forces, reported in the following pages are, for motors having the following characteristic:

standard construction, horizontal mounting IMB3 or IMB35 only, operating frequency 50Hz, bearing life of 20.000 or 40.000 hours according to ISO281:1990, bearing operating temperature between -20°C to +70°C, NO external radial forces, motor installed on a rigid foundation with negligible structural vibrations.

Maximum Radial and Axial Loads Permissible

MS, TA series mounting IM B3 (50Hz)

Poles	Frame size	Radial load (Nm)				Shaft length mm	Maximum Axial force (N)	
		(L10h) = 20000 hours		(L10h) = 40000 hours				
		X ₀	X _{max}	X ₀	X _{max}			
2	63	450	390	324	281	23	380	190
	71	530	450	382	324	30	460	230
	80	720	590	519	425	40	620	310
	90	800	640	576	461	50	660	330
	100	1100	900	792	648	60	930	465
	112	1100	870	792	627	60	900	450
	132	1800	1400	1296	1008	80	1450	725
	160	3000	2350	2160	1692	110	2000	1000
	180	3000	2400	2160	1728	110	2000	950
	200	1390	350	1001	252	110	2650	710
4	63	570	490	411	353	23	510	255
	71	690	580	497	418	30	620	310
	80	920	750	663	540	40	850	425
	90	1000	810	720	584	50	890	445
	100	1350	1080	972	778	60	1200	600
	112	1300	1050	936	756	60	1170	585
	132	2100	1690	1512	1217	80	1850	925
	160	3600	2000	2592	1440	110	2500	1200
	180	3650	2500	2628	1800	110	2500	1300
	200	1390	950	1001	684	110	3350	850
6	63	630	540	454	389	23	600	300
	71	750	630	540	454	30	720	360
	80	1080	880	778	634	40	1030	515
	90	1130	920	814	663	50	1040	520
	100	1570	1260	1131	908	60	1430	715
	112	1500	1200	1080	864	60	1400	700
	132	2300	1900	1656	1368	80	2150	1075
	160	4200	2000	3024	1440	110	2900	1450
	180	4300	2500	3096	1800	110	2900	1500
	200	1390	950	1001	684	110	3850	850
8	63	770	660	555	476	23	700	350
	71	900	770	648	555	30	840	420
	80	1300	1040	936	749	40	1200	600
	90	1300	1050	936	756	50	1220	610
	100	1900	1550	1368	1116	60	1950	975
	112	1900	1550	1368	1116	60	1920	960
	132	2800	2250	2016	1620	80	2540	1270
	160	4500	2000	3240	1440	110	3300	1650
	180	4900	2500	3528	1800	110	3200	1700
	200	1390	950	1001	684	110	4300	850

Maximum Radial and Axial Loads Permissible

MS, TA series mounting IM V1 (50Hz)

Poles	Frame size	Maximum Axial force (N) in downwards direction		Maximum Axial force (N) in upwards direction	
		(L10h) = 20000 hours	(L10h) = 40000 hours	(L10h) = 20000 hours	(L10h) = 40000 hours

2	63	225	135	400	240
	71	300	180	480	288
	80	450	270	670	402
	90	500	300	720	432
	100	650	390	1000	600
	112	620	372	1000	600
	132	980	588	1100	660
	160	2000	1200	1970	1182
	180	2130	1278	1800	1080
	200	3200	1920	1650	990
4	63	390	234	540	324
	71	400	240	650	390
	80	690	414	900	540
	90	730	438	970	582
	100	900	540	1300	780
	112	860	516	1300	780
	132	1320	792	1500	900
	160	2040	1224	1660	996
	180	1990	1194	1820	1092
	200	2750	1650	1300	780
6	63	460	276	610	366
	71	470	282	750	450
	80	860	516	1060	636
	90	870	522	1150	690
	100	1100	660	1550	930
	112	1050	630	1550	930
	132	1700	1020	2500	1500
	160	2470	1482	1880	1128
	180	2340	1404	2050	1230
	200	3140	1884	1560	936
8	63	550	330	610	366
	71	560	336	750	450
	80	1050	630	1060	636
	90	1060	636	1150	690
	100	1400	840	1600	960
	112	1500	900	1600	960
	132	2000	1200	1900	1140
	160	2930	1758	2020	1212
	180	2680	1608	2230	1338
	200	3660	2196	1380	828

TC series mounting IM B3 (50Hz)

Poles	Frame size	Radial force (N)				Shaft length mm	Maximum Axial force (N)	
		(L10h) = 20000 hours		(L10h) = 40000 hours				
		X ₀	X _{max}	X ₀	X _{max}			
2	132S1-2	2300	1800	1656	1296	80	1900	890
	132S2-2	2300	1800	1656	1296	80	1900	890
	160M1-2	3000	2400	2160	1728	110	2000	1000
	160M2-2	3000	2300	2160	1656	110	2000	1000
	160L-2	3000	2400	2160	1728	110	2000	1000
	180M-2	3000	2400	2160	1728	110	2000	1050
	200L1-2	1390	950	1000	684	110	2650	1100
	200L2-2	4600	3800	3312	2736	110	2650	1100
	225M-2	4550	3800	3276	2736	110	3000	1750
	250M-2	3260	2000	2347	1440	140	3400	1700
	280S-2	4600	3750	3312	2700	140	3250	1460
	280M-2	4600	3750	3312	2700	140	3250	1460
	315S-2	6100	3530	4392	2541	140	4000	1800
	315M-2	6100	3530	4392	2541	140	4000	1800
	315L1-2	6330	4000	4557	2880	140	3240	1458
	315L2-2	6330	4000	4557	2880	140	3240	1458
4	132S-4	2900	2300	2088	1656	80	2100	1050
	132M-4	2800	2300	2016	1656	80	2100	1250
	160M-4	3600	2000	2592	1440	110	2500	1200
	160L-4	3600	2000	2592	1440	110	2500	1200
	180M-4	3650	2500	2628	1800	110	2500	1300
	180L-4	3650	2500	2628	1800	110	2500	1300
	200L-4	1390	950	1000	684	110	3350	1100
	225S-4	5400	3800	3888	2736	140	3700	1100
	225M-4	5400	3800	3888	2736	140	3700	2100
	250M-4	3260	2000	2347	1440	140	4200	2050
	280S-4	6000	3500	4320	2520	140	4050	1820
	280M-4	6000	3500	4320	2520	140	4050	1820
	315S-4	21300	8700	15336	6264	170	4850	2200
	315M-4	21300	8700	15336	6264	170	4850	2200
	315L1-4	16000	9500	11520	6840	170	3930	1768
	315L2-4	16000	9500	11520	6840	170	3930	1768

Maximum Radial and Axial Load Permissible

TC series mounting IM B3 (50Hz)

Poles	Frame size	Radial force (N)				Shaft length mm	Maximum Axial force (N)	
		(L10h) = 20000 hours		(L10h) = 40000 hours				
		X ₀	X _{max}	X ₀	X _{max}			
6	132M2-6	3200	2600	2304	1872	80	2600	1300
	160M-6	4300	2000	3096	1440	110	2900	1450
	160L-6	4300	2000	3096	1440	110	2900	1450
	180L-6	4300	2500	3096	1800	110	2900	1500
	200L1-6	1390	950	1001	684	110	3850	1100
	200L2-6	1390	950	1001	684	110	3850	1100
	225M-6	6300	3800	4536	2736	140	4300	2500
	250M-6	3260	2000	2348	1440	140	4800	2000
	280S-6	6000	3500	4320	2520	140	4700	3100
	280M-6	6000	3500	4320	2520	140	4700	3100
	315S-6	22000	8400	15840	6048	170	5600	2464
	315M-6	22000	8400	15840	6048	170	5600	2464
	315L1-6	16000	6500	11520	4680	170	4500	1980
	315L2-6	16000	6500	11520	4680	170	4500	1980
8	160M2-8	4500	2000	3240	1440	110	3300	1650
	160L-8	4500	2000	3240	1440	110	3300	1650
	180L-8	4900	2500	3528	1800	110	3200	1700
	200L-8	1390	950	1001	684	110	4300	1100
	225S-8	7000	3800	5040	2736	140	4750	2750
	225M-8	7000	3800	5040	2736	140	4750	2750
	250M-8	3260	2000	2348	1440	140	5400	2120
	280S-8	6000	3500	4320	2520	140	5200	3250
	280M-8	6000	3500	4320	2520	140	5200	3250
	315S-8	19800	8250	14256	5940	170	6200	2728
	315M-8	19800	8250	14256	5940	170	6200	2728
	315L1-8	15700	6350	11304	4572	170	6200	2728
	315L2-8	15700	6350	11304	4572	170	6200	2728

TC series mounting IM V1 (50Hz)

Poles	Frame size	Maximum Axial force (N) in downwards direction		Maximum Axial force (N) in upwards direction	
		(L10h) = 20000 hours	(L10h) = 40000 hours	(L10h) = 20000 hours	(L10h) = 40000 hours
2	132S1-2	1600	960	1900	1140
	132S2-2	1600	960	1900	1140
	160M1-2	1730	1038	1270	762
	160M2-2	1730	1038	1270	762
	160L-2	1730	1038	1270	762
	180M-2	1650	990	1300	780
	200L1-2	2190	1314	1170	702
	200L2-2	2190	1314	1170	702
	225M-2	2380	1428	2370	1422
	250M-2	2700	1620	2410	1446
	280S-2	2130	1278	4370	2622
	280M-2	2130	1278	4370	2622
	315S-2	2560	1536	5800	3480
	315M-2	2560	1536	5800	3480
	315L1-2	2900	1740	5900	3540
	315L2-2	2900	1740	5900	3540
4	132S-4	1600	960	1520	912
	132M-4	1600	960	1520	912
	160M-4	2040	1224	1660	996
	160L-4	2040	1224	1660	996
	180M-4	2000	1200	1820	1092
	180L-4	2000	1200	1820	1092
	200L-4	2750	1650	1310	786
	225S-4	2780	1668	3050	1830
	225M-4	2780	1668	3050	1830
	250M-4	3160	1896	3000	1800
	280S-4	2430	1458	5600	3360
	280M-4	2430	1458	5600	3360
	315S-4	1950	1170	7750	4650
	315M-4	1950	1170	7750	4650
	315L1-4	1270	762	7460	4476
	315L2-4	1270	762	7460	4476

Maximum Radial and Axial Load Permissible

TC series mounting IM V1 (50Hz)

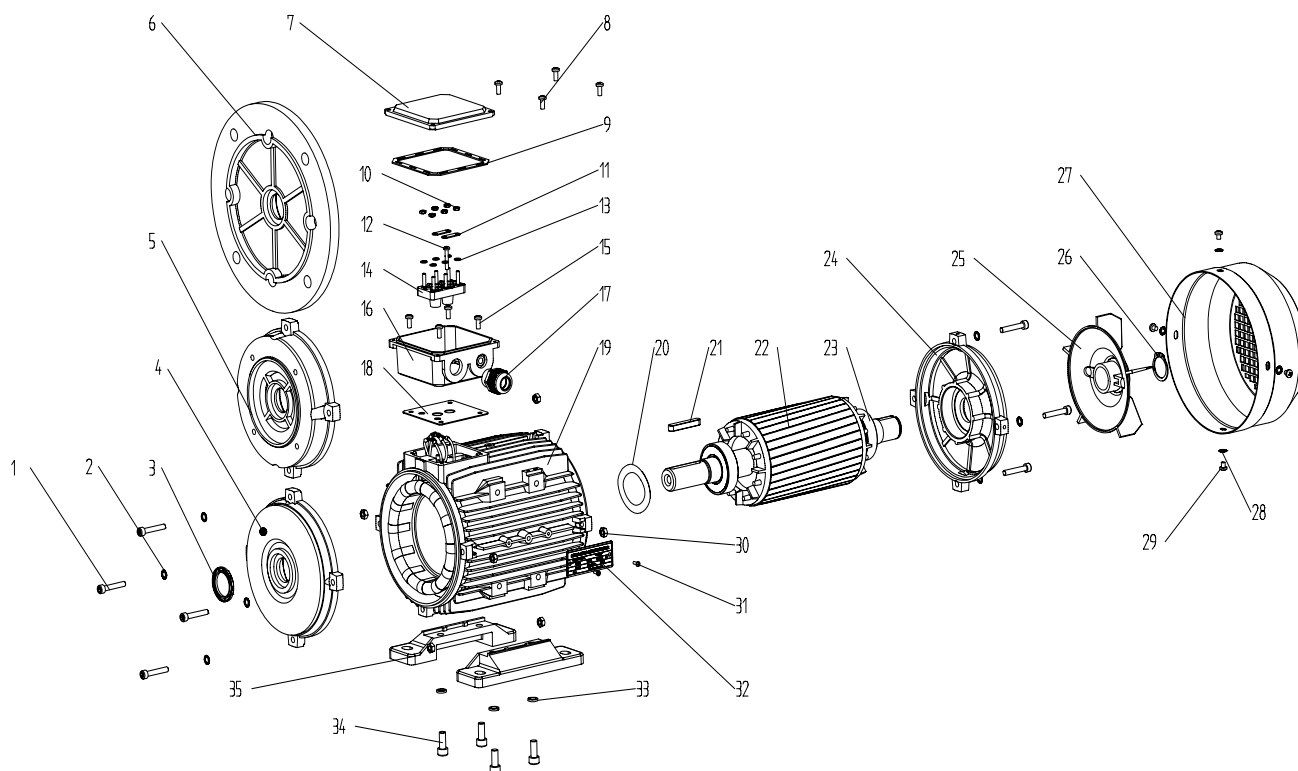
Poles	Frame size	Maximum Axial force (N) in downwards direction		Maximum Axial force (N) in upwards direction	
		(L10h) = 20000 hours	(L10h) = 40000 hours	(L10h) = 20000 hours	(L10h) = 40000 hours
6	132M2-6	2300	1495	1650	1073
	160M-6	2450	1593	1880	1222
	160L-6	2450	1593	1880	1222
	180L-6	2320	1508	2060	1339
	200L1-6	3100	2015	1450	943
	200L2-6	3100	2015	1450	943
	225M-6	3300	2145	3500	2275
	250M-6	3600	2340	3250	2113
	280S-6	3100	2015	6300	4095
	280M-6	3100	2015	6300	4095
	315S-6	1150	748	4100	2665
	315M-6	1150	748	4100	2665
	315L1-6	900	585	4300	2795
	315L2-6	900	585	4300	2795
8	160M2-8	2900	1885	2020	1313
	160L-8	2900	1885	2020	1313
	180L-8	2700	1755	2240	1456
	200L-8	3700	2405	1650	1073
	225S-8	3850	2503	3700	2405
	225M-8	3850	2503	3700	2405
	250M-8	4300	2795	9600	6240
	280S-8	3650	2373	6700	4355
	280M-8	3650	2373	6700	4355
	315S-8	1800	1170	4250	2763
	315M-8	2800	1820	4250	2763
	315L1-8	1800	1170	4780	3107
	315L2-8	1300	845	4780	3107

TC series mounting IM B3 (50Hz)

Poles	Frame size	Radial force (N)				Shaft length mm	Maximum Axial force (N)	
		(L10h) = 20000 hours		(L10h) = 40000 hours				
		X ₀	X _{max}	X ₀	X _{max}			
2	355	4300	2200	3096	1584	140	2000	2000
4	355	9000	6500	6480	4680	210	6000	6000
6	355	9800	3400	7056	2448	210	7000	7000
8	355	9800	3000	7056	2160	210	8000	8000

TC series mounting IM V1 (50Hz)

Poles	Frame size	Maximum Axial force (N) in downwards direction		Maximum Axial force (N) in upwards direction	
		(L10h) = 20000 hours	(L10h) = 40000 hours	(L10h) = 20000 hours	(L10h) = 40000 hours
2	355	3690	2325	200	126
4	355	1880	1185	14100	8883
6	355	400	252	15800	9954
8	355	400	252	17100	10773

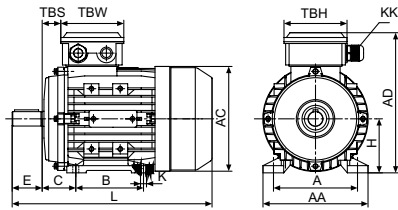


This catalogue is only a reference for users.

The concrete data be changed please contact with us before ordering.

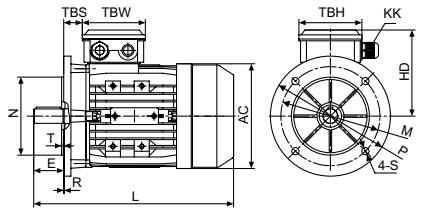
- | | | |
|-------------------------------|----------------------|-----------------------------|
| 1. Screw | 13. Terminal shim | 25. Cooling fan |
| 2. Gasket | 14. Terminal board | 26. Fan circlip |
| 3. Oil seal | 15. TB fixing screws | 27. Fan cover |
| 4. Front endshield | 16. TB base | 28. Fan cover fixing shim |
| 5. B14 flange | 17. Cable gland | 29. Fan cover fixing screws |
| 6. B5 flange | 18. TB bottomgasket | 30. Endshield fixing nut |
| 7. TB cover | 19. Frame | 31. Rivet |
| 8. TB fixing screws | 20. Preload washer | 32. Nameplate |
| 9. TB upper gasket | 21. Key | 33. Foot fixing nut |
| 10. Terminal board fixing nut | 22. Rotor | 34. Foot fixing screws |
| 11. Terminal bridge | 23. Bearing | 35. Foot |
| 12. Terminal pin | 24. NDE endshield | |

MS/MSD Series Dimensional Drawings



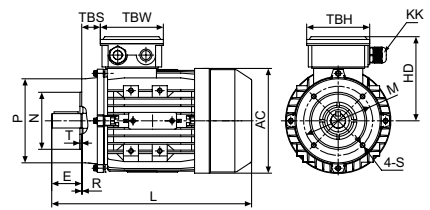
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IM B3



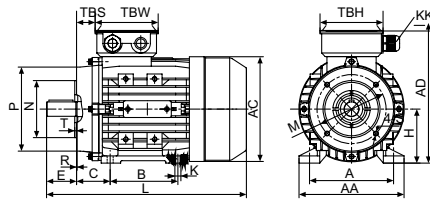
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IM B5



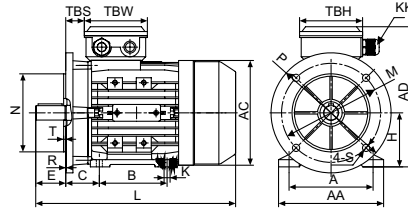
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IM B14



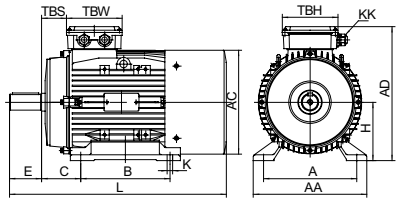
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IM B34



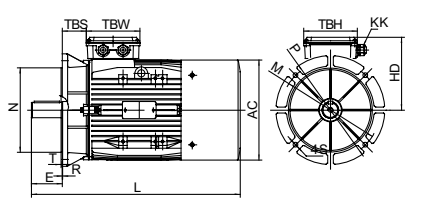
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IM B35



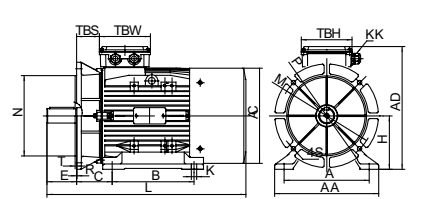
180-200

IM B3



180-200

IM B5



180-200

IM B35

Overall & Installation Dimension

FRAME	Foot Mounting				Shaft								General							
	H	A	B	C	D	E	F	G	K	SS	XX	ZZ	AA	AD	HD	AC	L	TBS	TBW	TBH
56	56	90	71	36	φ9	20	3	7.2	5.8*8.8	M4	9	12	110	152	96	φ110	193	14	88	88
63	63	100	80	40	φ11	23	4	8.5	7*10	M4	10	14	124	169	106	φ121	217	14	94	94
71☆☆	71	112	90	45	φ14	30	5	11	7*10	M5	12	17	140	184	113	φ139	241(255)	20	94	94
80	80	125	100	50	φ19	40	6	15.5	10*13	M6	16	21	160	211	131	φ156	290	27	105	105
90S	90	140	100	56	φ24	50	8	20	10*13	M8	19	25	175	228	138	φ175	310	30	105	105
90L1/L2	90	140	125	56	φ24	50	8	20	10*13	M8	19	25	175	228	138	φ175	335/365	30	105	105
100☆☆	100	160	140	63	φ28	60	8	24	12*15	M10	22	30	200	248	148	φ196	368(386)	26	105	105
112	112	190	140	70	φ28	60	8	24	12*15	M10	22	30	230	278	166	φ221	470	32	112	112
132S	132	216	140	89	φ38	80	10	33	12*15	M12	28	37	255	316	184	φ256	524	38	112	112
132M/L	132	216	178	89	φ38	80	10	33	12*15	M12	28	37	255	316	184	φ256	562/588	38	112	112
160M/L	160	254	210/254	108	φ42	110	12	37	15*19	M16	36	45	314	282	222	φ313	705	64	143	143
180M/L	180	279	241/279	121	φ48	110	14	42.5	15*25	M16	36	45	340	440	260	φ354	730	73	190	190
200L	200	318	305	133	φ55	110	16	49	19*29	M20	42	53	390	460	260	φ354	745	85	190	190

FRAME	KK	B5						B14						B5R						B14B					
		N	M	P	S	T	R	N	M	P	S	T	R	N	M	P	T	S	R	N	M	P	T	S	R
56	1-M16*1.5	φ80	φ100	φ120	φ7	3	0	φ60	φ65	φ80	M5	2.5	0												
63	1-M16*1.5	φ95	φ115	φ140	φ10	3	0	φ60	φ75	φ90	M5	2.5	0												
71	1-M20*1.5	φ110	φ130	φ160	φ10	3.5	0	φ70	φ85	φ105	M6	2.5	0	φ95	φ115	φ140	3	φ10	0	φ95	φ115	φ140	3	M8	0
80	1-M20*1.5	φ130	φ165	φ200	φ12	3.5	0	φ80	φ100	φ120	M6	3	0	φ110	φ130	φ160	3.5	φ10	0	φ110	φ130	φ160	3.5	M8	0
90	1-M20*1.5	φ130	φ165	φ200	φ12	3.5	0	φ95	φ115	φ140	M8	3	0	φ110	φ130	φ160	3.5	φ10	0	φ110	φ130	φ160	3.5	M8	0
100	2-M20*1.5	φ180	φ215	φ250	φ15	4	0	φ110	φ130	φ160	M8	3.5	0	φ130	φ165	φ200	3.5	φ12	0	φ130	φ165	φ200	3.5	M10	0
112	2-M25*1.5	φ180	φ215	φ250	φ15	4	0	φ110	φ130	φ160	M8	3.5	0	φ130	φ165	φ200	3.5	φ12	0	φ130	φ165	φ200	3.5	M10	0
132	2-M25*1.5	φ230	φ265	φ300	φ15	4	0	φ130	φ165	φ200	M10	3.5	0	φ180	φ215	φ250	4	φ15	0	φ180	φ215	φ250	4	M12	0
160	2-M32*1.5	φ250	φ300	φ350	φ19	5	0	φ180	φ215	φ250	M12	4	0												
180	2-M32*1.5	φ250	φ300	φ350	φ19	5	0																		
200	2-M40*1.5	φ300	φ350	φ400	φ19	5	0																		

☆ This data is provided for MSBCCCL series Brake motors both with and without hand release lever.

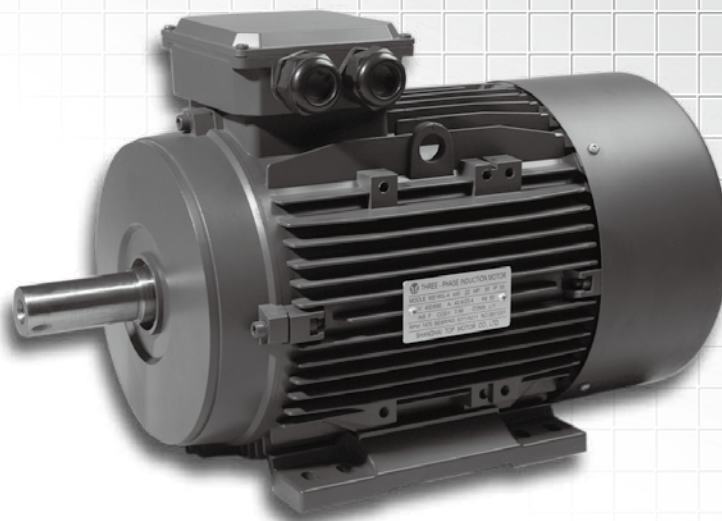
☆☆ This frame size has two housing sizes, the rated output is for normal "L" size, and increased output is for the bigger "L" size (refer to the figures in the bracket "() ")

MS Series

Three-Phase Asynchronous Motors Aluminum Housing

MS series aluminum housing three-phase asynchronous motors, with latest design in entirety, are made of selected quality materials and conform to the IEC standard.

MS motors have good performance, safety and reliable operation, nice appearance, and can be maintained very conveniently, while with low noises, little vibration and at the same time light weight and simple construction. These series motors can be used for general drive.



MS Series **IE1** Efficiency Motors Technical Data (at 50Hz)

Model	Power (kw)	Current (A)			Current (A)			Current (A)			Speed (r/min)	Eff			Power factor	Tst/Tn (Times)	Tmax/Tn (Times)	Tmin/Tn (Times)	Ist/In (Times)	Noise dB(A)	W.T (kg)	Moment of inertia (kg·m²)
		220V	380V	660V	230V	400V	690V	240V	415V	720V		100%	75%	50%								
MS561-2	0.09	0.63	0.37	0.21	0.61	0.35	0.20	0.58	0.34	0.19	2800	55.6	49.6	39.2	0.67	2.4	2.6	2.2	3.5	58	2.80	0.000102
MS562-2	0.12	0.68	0.39	0.23	0.65	0.37	0.22	0.62	0.36	0.21	2840	65.6	61.8	53.2	0.71	2.3	2.6	2.1	4.3	58	2.90	0.000128
MS563-2	0.18	0.92	0.53	0.31	0.88	0.51	0.29	0.85	0.49	0.28	2780	66.5	64.2	56.8	0.77	2.3	2.5	2.4	4.1	61	4.00	0.000142
MS631-2	0.18	0.92	0.53	0.31	0.88	0.51	0.29	0.85	0.49	0.28	2780	66.5	64.2	56.8	0.77	2.3	2.5	2.4	4.1	61	4.00	0.000150
MS632-2	0.25	1.19	0.69	0.40	1.14	0.65	0.38	1.09	0.63	0.36	2780	69.8	68.8	62.8	0.79	2.6	2.5	2.4	4.3	61	4.20	0.000171
MS633-2	0.37	1.72	1.00	0.57	1.65	0.95	0.55	1.58	0.91	0.53	2750	71.4	71.2	65.9	0.79	2.8	2.6	2.6	4.7	62	4.70	0.000203
MS711-2	0.37	1.70	0.99	0.57	1.63	0.94	0.54	1.56	0.90	0.52	2830	71.3	70.4	65.2	0.8	2.8	2.9	2	5.9	64	5.20	0.000314
MS712-2	0.55	2.52	1.46	0.84	2.41	1.39	0.80	2.31	1.34	0.77	2815	71.6	71	66.1	0.8	2.7	2.7	1.8	6	64	6.20	0.000384
MS713-2	0.75	3.25	1.88	1.08	3.11	1.79	1.04	2.98	1.72	0.99	2820	73.8	73.9	70.3	0.82	3.0	3.0	2.0	6.6	65	7.20	0.000476
MS800-2	0.55	2.38	1.38	0.79	2.28	1.31	0.76	2.18	1.26	0.73	2810	73.1	73.4	69.7	0.83	2.7	2.5	1.9	5.3	64	7.30	0.000752
MS801-2	0.75	3.15	1.83	1.05	3.02	1.73	1.01	2.89	1.67	0.96	2830	75.2	75.6	72.2	0.83	3	2.8	2	6.2	67	8.70	0.000880
MS802-2	1.1	4.40	2.55	1.47	4.21	2.42	1.40	4.04	2.33	1.35	2840	79	79.8	77.7	0.83	2.6	3.1	2.6	6.1	67	10.50	0.001072
MS803-2	1.5	5.70	3.30	1.90	5.46	3.14	1.82	5.23	3.02	1.74	2820	81.2	82.5	81.3	0.85	3.2	3	2.5	7.2	70	11.20	0.001329
MS90S-2	1.5	5.73	3.32	1.91	5.48	3.15	1.83	5.25	3.04	1.75	2850	80.8	81.2	78.9	0.85	2.8	3.3	2.6	7.7	72	12.00	0.001579
MS90M-2	1.85	7.04	4.08	2.35	6.73	3.87	2.24	6.45	3.73	2.15	2850	82.1	82.6	80.7	0.84	4.2	3.6	2.9	7.8	72	13.30	0.001846
MS90L1-2	2.2	8.19	4.74	2.73	7.84	4.51	2.61	7.51	4.34	2.50	2860	82.9	83.4	81.4	0.85	3.7	3.9	3.3	8.8	72	14.50	0.002123
MS90L2-2	3	11.1	6.43	3.70	10.6	6.11	3.54	10.2	5.89	3.39	2830	82.4	83.5	82.3	0.86	4.4	4.2	3.5	8	74	15.00	0.002491
MS100L1-2	3	10.9	6.32	3.64	10.4	6.00	3.48	10.0	5.78	3.33	2875	83.9	84.5	83	0.86	2.8	3.2	2	8.1	76	20.00	0.003475
MS100L2-2	4	13.8	7.99	4.60	13.2	7.59	4.40	12.6	7.31	4.22	2870	85.5	86.5	85.8	0.89	3.2	3.4	2.2	8.8	77	24.00	0.004247
MS112M-2	4	13.2	7.63	4.40	12.6	7.25	4.20	12.1	6.99	4.03	2870	85.6	87.0	86.8	0.93	2.6	2.85	1.75	8.1	77	26.00	0.005845
MS112L-2	5.5	18.0	10.4	6.00	17.2	9.9	5.74	16.5	9.5	5.50	2890	87.1	88	87.6	0.92	3.1	3.3	2	9.4	78	29.30	0.007429
MS132S1-2	5.5	18.5	10.7	6.17	17.7	10.2	5.90	17.0	9.8	5.65	2900	86.6	87.4	86.5	0.90	2.25	3.1	1.5	7.9	80	38.40	0.011224
MS132S2-2	7.5	24.6	14.2	8.19	23.5	13.5	7.84	22.5	13.0	7.51	2900	88.0	88.8	88.3	0.91	2.4	3.25	1.5	8.5	80	41.30	0.013838
MS132M1-2	9.2	30.8	17.8	10.3	29.5	17.0	9.83	28.3	16.3	9.42	2930	88	88	86.4	0.89	2	2.2	1.2	7.5	81	48.20	0.016551
MS132M2-2	11	36.3	21.0	12.1	34.7	20.0	11.6	33.3	19.2	11.1	2930	88.4	88.6	87.5	0.9	2	2.2	1.2	7.5	83	52.50	0.018641
MS160M1-2	11	36.4	21.1	12.1	34.8	20.0	11.6	33.4	19.3	11.1	2920	88.8	89.4	88.6	0.89	2.6	2.95	1.85	7.1	86	76.00	0.041164
MS160M2-2	15	49.3	28.5	16.4	47.2	27.1	15.7	45.2	26.1	15.1	2910	89.1	90.0	89.6	0.90	2.2	2.8	1.8	6.4	86	83.00	0.048985
MS160L-2	18.5	59.3	34.4	19.8	56.8	32.6	18.9	54.4	31.5	18.1	2930	90.3	90.9	90.3	0.91	2.9	3.05	1.65	8.4	86	92.30	0.059935
MS180M-2	22	71.3	41.3	23.8	68.2	39.2	22.7	65.3	37.8	21.8	2950	90	90.2	89.7	0.9	2	2.2	1.2	7.5	88	121.0	0.090185
MS200L1-2	30	95.9	55.5	32.0	91.8	52.8	30.6	87.9	50.8	29.3	2950	91.2	90.6	88.5	0.9	2	2.2	1.2	7.5	90	144.0	0.114999
MS200L2-2	37	117.3	67.9	39.1	112.2	64.5	37.4	107.5	62.2	35.8	2940	92	92.1	91.4	0.9	2	2.2	1.2	7.5	90	170.0	0.136738

MS Series Efficiency Motors Technical Data (at 50Hz)

Model	Power (kw)	Current (A)			Current (A)			Current (A)			Speed (r/min)	Eff			Power factor	Tst/Tn (Times)	Tmax/Tn (Times)	Tmin/Tn (Times)	Ist/In (Times)	Noise dB(A)	W.T (kg)	Moment of inertia (kg·m²)
		220V	380V	660V	230V	400V	690V	240V	415V	720V		100%	75%	50%								
MS561-4	0.06	0.54	0.31	0.18	0.52	0.30	0.17	0.50	0.29	0.17	1400	52.8	47.7	38.7	0.55	3.1	3.2	3	3.2	50	2.90	0.000190
MS562-4	0.09	0.71	0.41	0.24	0.68	0.39	0.23	0.65	0.38	0.22	1400	56.2	51.7	43.1	0.59	2.3	2.5	2.8	3.1	50	3.20	0.000240
MS563-4	0.12	0.89	0.51	0.30	0.85	0.49	0.28	0.81	0.47	0.27	1390	58.5	54.3	45.6	0.61	2.65	2.8	2.7	3.2	52	3.70	0.000265
MS631-4	0.12	0.89	0.51	0.30	0.85	0.49	0.28	0.81	0.47	0.27	1390	58.5	54.3	45.6	0.61	2.65	2.8	2.7	3.2	52	3.70	0.000273
MS632-4	0.18	1.15	0.67	0.38	1.10	0.63	0.37	1.06	0.61	0.35	1365	64.2	62.5	55.9	0.64	2.8	2.55	2.4	3.6	52	4.40	0.000338
MS633-4	0.25	1.45	0.84	0.48	1.39	0.80	0.46	1.33	0.77	0.44	1370	68.3	67.5	62.1	0.66	2.7	2.7	2.4	3.9	54	5.00	0.000408
MS711-4	0.25	1.38	0.80	0.46	1.32	0.76	0.44	1.27	0.73	0.42	1395	65.1	63.1	55.8	0.73	2	2.15	1.6	4.2	55	5.10	0.000561
MS712-4	0.37	1.90	1.10	0.63	1.82	1.05	0.61	1.74	1.01	0.58	1390	68.6	68.2	62.9	0.74	2.25	2.35	1.95	4.6	55	6.10	0.000714
MS713-4	0.55	2.81	1.63	0.94	2.69	1.54	0.90	2.57	1.49	0.86	1390	71.9	71.6	66.8	0.72	2.8	2.8	2.4	4.8	57	7.20	0.000920
MS801-4	0.55	2.74	1.59	0.91	2.62	1.51	0.87	2.51	1.45	0.84	1400	70.9	70.5	65.5	0.74	2.25	2.55	1.95	4.9	58	8.30	0.001350
MS802-4	0.75	3.36	1.94	1.12	3.21	1.85	1.07	3.08	1.78	1.03	1390	74.4	76.0	73.9	0.79	2.5	2.55	2.05	5.4	58	9.70	0.001790
MS803-4	1.1	4.90	2.84	1.63	4.69	2.69	1.56	4.49	2.60	1.50	1390	74.6	75.7	73.3	0.79	2.9	2.9	2.4	5.9	60	11.70	0.002236
MS90S-4	1.1	4.90	2.83	1.63	4.68	2.69	1.56	4.49	2.60	1.50	1400	75.5	76.7	74.4	0.78	2.9	2.7	2.15	6	61	11.70	0.002443
MS90L1-4	1.5	6.48	3.75	2.16	6.20	3.56	2.07	5.94	3.44	1.98	1410	79.6	80.2	78.0	0.76	3.4	3.3	2.7	6.9	61	15.00	0.003152
MS90L2-4	2.2	9.76	5.65	3.25	9.33	5.37	3.11	8.94	5.17	2.98	1410	78.9	79.4	77	0.75	3.8	2.6	3.2	7.2	63	17.60	0.004002
MS100L1-4	2.2	8.71	5.05	2.90	8.34	4.79	2.78	7.99	4.62	2.66	1420	82.0	83.3	82.3	0.81	2.4	2.7	2.15	6.3	64	19.20	0.005977
MS100L2-4	3	11.5	6.64	3.82	11.0	6.31	3.66	10.5	6.08	3.51	1430	83.7	84.8	83.8	0.82	2.6	3	2.15	6.8	64	22.50	0.007591
MS100L3-4	4	15.2	8.80	5.07	14.5	8.36	4.85	13.9	8.06	4.65	1430	84.2	85.5	85.3	0.82	2.2	2.3	1.5	7	65	27.30	0.009626
MS112M-4	4	14.9	8.60	4.95	14.2	8.17	4.74	13.6	7.88	4.54	1440	84.7	86.0	85.4	0.83	2.5	2.9	2.05	7.1	65	29.00	0.012079
MS112L-4	5.5	20.4	11.8	6.81	19.5	11.2	6.51	18.7	10.8	6.24	1435	85.9	87.1	86.6	0.82	2.5	2.95	2.2	7.2	68	35.70	0.014229
MS132S-4	5.5	19.6	11.4	6.54	18.76	10.8	6.25	18.0	10.4	5.99	1445	86.4	87.8	87.7	0.85	2.15	2.85	1.75	7.5	71	39.00	0.024846
MS132M-4	7.5	25.9	15.0	8.62	24.7	14.2	8.24	23.7	13.7	7.90	1450	87.6	88.8	88.5	0.87	2.1	2.9	1.65	8.6	71	48.60	0.033131
MS132L1-4	9.2	31.3	18.1	10.4	30.0	17.2	10.0	28.7	16.6	9.6	1450	88.6	89.5	89.1	0.87	2.8	2.4	2	8.4	74	56.50	0.039339
MS132L2-4	11	37.3	21.6	12.4	35.6	20.5	11.9	34.2	19.8	11.4	1450	90.1	91.1	91	0.86	3	2.5	2	8.9	74	64.00	0.045478
MS160M-4	11	39.7	23.0	13.2	37.9	21.8	12.6	36.4	21.0	12.1	1450	87.7	89.6	90.3	0.83	2.05	2.25	1.55	6.1	75	73.00	0.077369
MS160L1-4	15	51.9	30.1	17.3	49.7	28.5	16.6	47.6	27.5	15.9	1455	88.7	90.0	90.2	0.86	2.2	2.45	1.4	7.3	75	88.50	0.101156
MS160L2-4	18.5	63.1	36.5	21.0	60.4	34.7	20.1	57.9	33.5	19.3	1460	90.5	91	90.6	0.85	2.2	2.2	1.4	7.5	78	97.50	0.127587
MS180M-4	18.5	62.4	36.1	20.8	59.7	34.3	19.9	57.2	33.1	19.1	1460	90.5	90.7	89.9	0.86	2.2	2.2	1.4	7.5	80	118.0	0.155064
MS180L-4	22	73.8	42.7	24.6	70.6	40.6	23.5	67.6	39.1	22.5	1460	91	91.3	90.6	0.86	2.2	2.2	1.4	7.5	80	128.0	0.173293
MS200L-4	30	99.5	57.6	33.2	95.2	54.7	31.7	91.2	52.8	30.4	1470	92	92.2	91.6	0.86	2.2	2.2	1.4	7.5	83	153.0	0.224084
MS631-6	0.09	0.75	0.44	0.25	0.72	0.41	0.24	0.69	0.40	0.23	890	50.7	47.6	39.8	0.62	2	2.2	1.9	2.9	50	4.20	0.000418
MS632-6	0.12	0.97	0.56	0.32	0.93	0.54	0.31	0.89	0.52	0.30	895	53.7	50.9	43.2	0.60	2.3	2.2	2.1	2.8	50	4.50	0.000517
MS711-6	0.18	1.11	0.64	0.37	1.06	0.61	0.35	1.02	0.59	0.34	905	63.0	61.6	55.4	0.67	2.15	2.4	2	3.5	52	5.60	0.000841
MS712-6	0.25	1.56	0.90	0.52	1.49	0.86	0.50	1.43	0.83	0.48	885	62.6	62.0	55.8	0.67	2.05	2.3	2.05	3.2	52	6.10	0.000965
MS713-6	0.37	2.32	1.34	0.77	2.22	1.28	0.74	2.13	1.23	0.71	890	65.4	64.4	58.2	0.64	2.3	2.5	2.3	3.4	54	6.80	0.001151
MS801-6	0.37	2.06	1.19	0.69	1.97	1.13	0.66	1.89	1.09	0.63	920	68.1	67.7	62.2	0.69	1.95	2.25	1.8	3.7	56	8.10	0.001560
MS802-6	0.55	2.74	1.59	0.91	2.62	1.51	0.87	2.51	1.45	0.84	920	72.5	73.0	69.3	0.73	2.25	2.45	2.05	4.3	56	9.60	0.002098
MS803-6	0.75	3.65	2.11	1.22	3.49	2.01	1.16	3.34	1.93	1.11	910	72.9	74.2	71.3	0.74	2.2	2.4	2.1	4.1	58	10.00	0.002635
MS90S-6	0.75	3.83	2.22	1.28	3.67	2.11	1.22	3.52	2.03	1.17	920	72.5	73.3	70.0	0.71	1.8	2.2	1.7	4.1	59	11.30	0.003061
MS90L1-6	1.1	5.47	3.17	1.82	5.23	3.01	1.74	5.01	2.90	1.67	910	73.5	75.2	72.9	0.72	1.95	2.25	1.85	4.2	59	14.40	0.004067
MS90L2-6	1.5	7.12	4.12	2.37	6.81	3.92	2.27	6.53	3.78	2.18	900	74.7	77	75.5	0.74	2.1	2.3	1.9	4.2	60	15.50	0.005147
MS100L1-6	1.5	6.77	3.92	2.26	6.47	3.72	2.16	6.20	3.59	2.07	935	78.5	79.9	78.2	0.74	2.05	2.35	1.8	5	61	18.80	0.007913
MS100L2-6	2.2	9.87	5.71	3.29	9.44	5.43	3.15	9.04	5.23	3.01	950	77	78.4	77.8	0.76	2.2	2.2	1.3	6	63	22.80	0.011194
MS112M-6	2.2	9.3	5.38	3.10	8.89	5.11	2.96	8.52	4.93	2.84	925	79.2	81.8	81.7	0.78	1.9	2.25	1.75	4.7	64	25.00	0.013777
MS112L-6	3	12.9	7.49	4.31	12.4	7.12	4.13	11.9	6.86	3.95	950	79	80.9	80.9	0.77	2.2	2.2	1.3	6	64	30.00	0.018246
MS132S-6	3	12.5	7.22	4.16	11.9	6.86	3.98	11.4	6.61	3.81	955	82.5	84.5	84.3	0.77	1.7	2.15	1.45	5.3	64	35.00	0.029932
MS132M1-6	4	16.2	9.39	5.40	15.5	8.92	5.1															

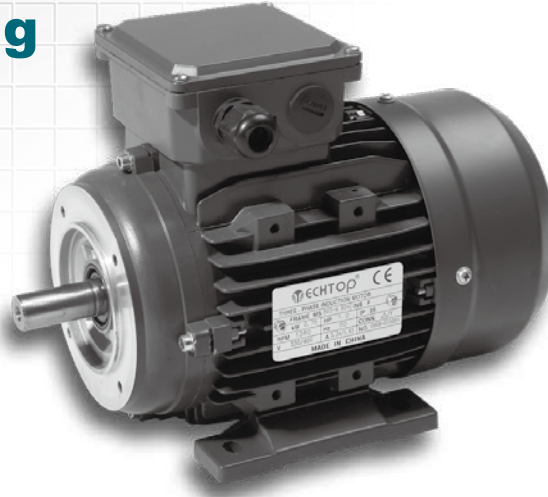
MS2 Series Efficiency Motors Technical Data (at 400V/50Hz)

Model	Power	Current(A)			Current(A)			Current(A)			Speed (r/min)	Eff. (%)	Power Factor (cos φ)	T _{max} /T _n (Times)	T _{max} /T _n (Times)	T _{max} /T _n (Times)	I _s /I _n (Times)	Noise dB(A)	W.T (kg)	Inertia kg*m ²
		220V	380V	660V	230V	400V	690V	240V	415V	720V										
MS2 713-2	0.75	3.23	1.86	1.08	3.07	1.77	1.02	2.96	1.71	0.99	2810	77.4	0.79	3.4	3.5	3	5.8	65	7.5	0.000480
MS2 801-2	0.75	3.15	1.82	1.05	2.99	1.73	1.00	2.88	1.66	0.96	2840	77.4	0.81	3.3	3.5	2.7	6.9	67	8.9	0.000852
MS2 802-2	1.1	4.43	2.56	1.48	4.21	2.43	1.40	4.06	2.34	1.35	2860	79.6	0.82	3.5	3.7	2.8	7.2	67	10.6	0.001109
MS2 803-2	1.5	5.99	3.46	2.00	5.69	3.29	1.90	5.49	3.17	1.83	2860	81.3	0.81	3.7	3.8	2.9	7.7	70	13	0.001430
MS2 90S-2	1.5	5.85	3.38	1.95	5.56	3.21	1.85	5.36	3.09	1.79	2860	81.3	0.83	4.5	3.5	2.7	8.2	72	13.2	0.001430
MS2 90L1-2	2.2	8.38	4.84	2.79	7.96	4.60	2.66	7.68	4.43	2.56	2870	83.2	0.83	4.5	4.1	2.7	7.4	72	16.1	0.002181
MS2 90L2-2	3	11.2	6.49	3.75	10.7	6.17	3.56	10.29	5.94	3.43	2880	84.6	0.83	4.5	4.1	3	9.7	74	20	0.002904
MS2 100L1-2	3	10.9	6.26	3.62	10.3	5.95	3.44	9.94	5.74	3.31	2900	84.6	0.86	3.7	3.7	2.6	9.6	76	22.7	0.003008
MS2 100L2-2	4	13.9	8.05	4.65	13.2	7.65	4.42	12.8	7.37	4.26	2890	85.8	0.88	3.6	3.4	2.6	9.5	77	26	0.003934
MS2 112M-2	4	14.1	8.14	4.70	13.4	7.73	4.47	12.9	7.46	4.30	2910	85.8	0.87	3.4	3.8	2.2	9.7	77	26.4	0.006266
MS2 112L-2	5.5	18.9	10.9	6.30	18.0	10.4	5.99	17.3	9.99	5.77	2920	87	0.88	4	4.3	3	11	78	32.1	0.007819
MS2 132S1-2	5.5	18.9	10.9	6.30	18.0	10.4	5.99	17.3	9.99	5.77	2920	87	0.88	3.9	4	2.1	9.9	80	42.3	0.012022
MS2 132S2-2	7.5	25.2	14.5	8.39	23.9	13.8	7.97	23.0	13.3	7.68	2910	88.1	0.89	3.5	3.7	1.9	9.5	80	46.2	0.014635
MS2 132M1-2	9.2	31.0	17.9	10.3	29.5	17.0	9.82	28.4	16.4	9.47	2900	88.7	0.88	3.5	3.9	2.4	9.8	81	51.6	0.016303
MS2 132M2-2	11	37.7	21.7	12.6	35.8	20.7	11.9	34.5	19.9	11.5	2930	89.4	0.86	3.5	3.9	2.4	11.5	83	54.5	0.019439
MS2 160M1-2	11	36.4	21.0	12.1	34.6	20.0	11.5	33.3	19.2	11.1	2940	89.4	0.89	3.2	3.2	2.2	9	86	79.2	0.048471
MS2 160M2-2	15	48.6	28.0	16.2	46.1	26.6	15.4	44.5	25.7	14.8	2930	90.3	0.9	3.2	3.2	2.2	9	86	96.6	0.059421
MS2 160L-2	18.5	58.9	34.0	19.6	55.9	32.3	18.6	53.9	31.1	18.0	2930	90.9	0.91	3.2	3.2	2.2	9	86	102.5	0.068807
MS2 180M-2	22	69.7	40.2	23.2	66.2	38.2	22.1	63.8	36.8	21.3	2950	91.3	0.91	2.5	2	1.4	8.1	91	128	0.095016
MS2 200L1-2	30	94.3	54.4	31.4	89.6	51.7	29.9	86.3	49.9	28.8	2950	92	0.91	2.5	3.3	1.3	8.8	94	158	0.122246
MS2 200L2-2	37	115.7	66.8	38.6	109.9	63.4	36.6	105.9	61.2	35.3	2960	92.5	0.91	2.8	3.5	1.3	9.6	94	181.3	0.148816
MS2 802-4	0.75	3.31	1.91	1.10	3.14	1.81	1.05	3.03	1.75	1.01	1410	79.6	0.75	3	2.9	2.4	5.8	58	11.1	0.002060
MS2 90S-4	1.1	5.01	2.89	1.67	4.76	2.75	1.59	4.59	2.65	1.53	1420	81.4	0.71	2.8	3.1	2.6	5.6	61	13.9	0.002873
MS2 90L-4	1.5	6.71	3.88	2.24	6.38	3.68	2.13	6.15	3.55	2.05	1420	82.8	0.71	3	3.1	2.7	6.2	61	16.9	0.003709
MS2 100L1-4	2.2	8.92	5.15	2.97	8.47	4.89	2.82	8.17	4.72	2.72	1440	84.3	0.77	3.3	3.6	2.9	7.6	64	22.4	0.007306
MS2 100L2-4	3	11.8	6.83	3.95	11.2	6.49	3.75	10.8	6.26	3.61	1440	85.5	0.78	3.4	3.6	3	7.4	64	26.4	0.009053
MS2 112M-4	4	15.0	8.66	5.00	14.3	8.23	4.75	13.7	7.93	4.58	1440	86.6	0.81	2.9	3.1	2.3	8.2	65	32.3	0.013305
MS2 132S-4	5.5	20.1	11.6	6.71	19.1	11.0	6.37	18.4	10.6	6.14	1450	87.7	0.82	2.6	3.4	2.2	8.7	71	43	0.027736
MS2 132M-4	7.5	26.5	15.3	8.83	25.2	14.5	8.39	24.3	14.0	8.09	1450	88.7	0.84	3.1	3.4	2.1	8.8	71	52.6	0.035864
MS2 132L-4	9.2	31.9	18.4	10.6	30.3	17.5	10.1	29.2	16.9	9.75	1450	89.2	0.85	2.9	3.2	2	8.8	74	59	0.041954
MS2 160M-4	11	38.4	22.2	12.8	36.5	21.0	12.2	35.1	20.3	11.7	1460	89.8	0.84	2.5	2.9	1.6	7.3	75	83	0.089630
MS2 160L1-4	15	51.9	29.9	17.3	49.3	28.4	16.4	47.5	27.4	15.8	1460	90.6	0.84	2.9	3	1.7	8.2	75	103.5	0.118354
MS2 160L2-4	18.5	62.8	36.3	20.9	59.7	34.4	19.9	57.5	33.2	19.2	1460	91.2	0.85	2.9	3	1.7	8.1	78	114.5	0.136633
MS2 180M-4	18.5	61.4	35.4	20.5	58.3	33.7	19.4	56.2	32.4	18.7	1460	91.2	0.87	2.4	3	1.8	7.8	80	119	0.155064
MS2 180L-4	22	71.8	41.5	23.9	68.2	39.4	22.7	65.8	38.0	21.9	1460	91.6	0.88	2.4	2.8	1.7	7.7	80	129	0.173293
MS2 200L-4	30	99.5	57.4	33.2	94.5	54.6	31.5	91.1	52.6	30.4	1470	92.3	0.86	3.2	3.7	2.3	9.5	83	169.2	0.242313
MS2 90S-6	0.75	3.77	2.18	1.26	3.58	2.07	1.19	3.45	1.99	1.15	935	75.9	0.69	2.4	2.6	2.2	4.7	59	13	0.003365
MS2 90L-6	1.1	5.37	3.10	1.79	5.10	2.95	1.70	4.92	2.84	1.64	940	78.1	0.69	2.7	2.7	2.3	5	59	16.4	0.004805
MS2 100L-6	1.5	6.87	3.97	2.29	6.53	3.77	2.18	6.29	3.63	2.10	960	79.8	0.72	2.9	3	2.3	6.2	61	21.6	0.009554
MS2 112M-6	2.2	9.44	5.45	3.15	8.96	5.18	2.99	8.64	4.99	2.88	950	81.8	0.75	2.5	2.6	2	5.6	64	29.5	0.016969
MS2 132S-6	3	12.5	7.20	4.16	11.8	6.84	3.95	11.4	6.59	3.81	960	83.3	0.76	2.2	2.6	1.7	6.1	64	35.2	0.029932
MS2 132M1-6	4	16.6	9.58	5.53	15.8	9.10	5.25	15.2	8.77	5.06	965	84.6	0.75	2.5	2.6	1.7	6.5	68	45	0.040259
MS2 132M2-6	5.5	22.7	13.1	7.58	21.6	12.5	7.20	20.8	12.0	6.94	965	86	0.74	3	2.9	1.9	7.2	68	53.5	0.053408
MS2 132L-6	7.5	30.2	17.4	10.1	28.7	16.6	9.56	27.6	16.0	9.21	970	87.2	0.75	3.7	3.1	2.2	8.2	68	66.2	0.068087
MS2 160M-6	7.5	30.6	17.7	10.2	29.1	16.8	9.69	28.0	16.2	9.34	970	87.2	0.74	2.8	2.9	1.6	7.1	68	72.6	0.089688
MS2 160L-6	11	42.9	24.8	14.3	40.8	23.6	13.6	39.3	22.7	13.1	970	88.7	0.76	2.9	2.7	1.6	7.3	73	89.5	0.122730
MS2 180L-6	15	53.0	30.6	17.7	50.4	29.1	16.8	48.5	28.0	16.2	975	89.7	0.83	2.2	2.7	1.2	8	79	130	0.254063
MS2 200L1-6	18.5	64.9	37.5	21.6	61.6	35.6	20.5	59.4	34.3	19.8	975	90.4	0.83	2.1	2.9	1.5	8.3	82	149	0.303941
MS2 200L2-6	22	76.7	44.3	25.6	72.9	42.1	24.3	70.3	40.6	23.4	975	90.9	0.83	2.2	3	1.6	8.9	82	167	0.353160

MSD Series

Three-Phase Asynchronous Double-Polarity Motors

Aluminum Housing



T echnical Data (at 400V/50Hz)

Model	Power (KW)		Speed (r/min)		Eff. (%)		Power Factor (CosΦ)		Current (A)		Rated Torque (N.M)		T _{st} /T _n (Times)		I _{st} /I _n (Times)		T _{max} /T _n (Times)	
	2P	4P	2P	4P	2P	4P	2P	4P	2P	4P	2P	4P	2P	4P	2P	4P	2P	4P
MSD711-2/4	0.3	0.22	2750	1350	60	55	0.8	0.73	0.90	0.79	1.04	1.56	1.7	1.7	3.5	3.5	1.9	1.9
MSD712-2/4	0.45	0.3	2790	1380	63	58	0.8	0.73	1.29	1.02	1.54	2.08	2	2	4	4	2	2
MSD801-2/4	0.55	0.45	2800	1380	65	64	0.84	0.75	1.45	1.35	1.88	3.11	2	2	4.5	4.5	2.1	2.1
MSD802-2/4	0.75	0.6	2800	1400	67	68	0.86	0.77	1.88	1.65	2.56	4.09	1.8	1.8	4.5	4.5	2	2
MSD90S-2/4	1.25	0.95	2820	1400	72	68	0.86	0.82	2.91	2.46	4.23	6.48	2	2	5	5	2	2
MSD90L-2/4	1.7	1.32	2830	1400	73	70	0.86	0.83	3.91	3.28	5.74	9.00	2	2	5	5	2	2
MSD100L1-2/4	2.4	1.84	2830	1410	73	76	0.86	0.83	5.52	4.21	8.10	12.46	2	2	5.5	5	2	2
MSD100L2-2/4	3.3	2.6	2840	1420	74	78	0.86	0.85	7.48	5.66	11.10	17.19	2	1.9	5.5	5	2	1.9
MSD112M-2/4	4.5	4	2860	1430	77	79	0.85	0.86	9.92	8.50	15.03	26.71	2	1.8	5.5	5	2.2	2
MSD132S-2/4	6	5	2860	1440	79	82	0.84	0.86	13.05	10.23	20.03	33.16	2	1.5	5.5	5.5	2.2	1.9
MSD132M-2/4	8	6.6	2870	1440	82	84	0.84	0.86	16.76	13.09	26.62	43.77	2	2	6	6	2.2	2.2
MSD160M-2/4	11	9	2920	1450	84	84	0.85	0.82	22.23	18.86	35.98	59.28	1.8	1.8	7	6	2	2
MSD160L-2/4	15	12	2920	1450	86	84	0.87	0.83	28.94	24.84	49.06	79.03	2	2	7	7	2.2	2.2

T echnical Data (at 400V/50Hz)

Model	Power (KW)		Speed (r/min)		Eff. (%)		Power Factor (CosΦ)		Current (A)		Rated Torque (N.M)		T _{st} /T _n (Times)		I _{st} /I _n (Times)		T _{max} /T _n (Times)	
	4P	8P	4P	8P	4P	8P	4P	8P	4P	8P	4P	8P	4P	8P	4P	8P	4P	8P
MSD801-4/8	0.25	0.15	1380	680	58	40	0.77	0.60	0.81	0.90	1.73	2.11	2	2	4.5	3	2	2
MSD802-4/8	0.45	0.25	1390	685	68	48	0.80	0.60	1.19	1.25	3.09	3.49	1.8	2	4.5	3	2	2
MSD90S-4/8	0.55	0.3	1400	690	68	50	0.83	0.61	1.41	1.42	3.75	4.15	1.8	2	4.5	3.5	2	2
MSD90L-4/8	0.8	0.45	1400	690	68	53	0.83	0.63	2.05	1.95	5.46	6.23	1.8	1.6	4	3	1.9	1.8
MSD100L1-4/8	1.25	0.6	1400	700	69	54	0.82	0.56	3.19	2.86	8.53	8.16	1.8	2	5	3.5	2	2
MSD100L2-4/8	1.76	0.88	1400	700	71	58	0.84	0.56	4.26	3.91	12.00	12.00	1.8	2	5.5	4	2	2
MSD112M-4/8	2.2	1.5	1420	700	75	64	0.82	0.61	5.16	5.54	14.80	20.46	2	2	6	4	2	2
MSD132S-4/8	3.3	2.2	1430	705	78	70	0.84	0.64	7.27	7.09	22.04	29.8	2	2	6	5	2	2
MSD132M-4/8	4.5	3	1430	705	82	77	0.85	0.65	9.32	8.65	30.05	40.64	2	2	6	5	2	2
MSD160M1-4/8	5.5	4	1440	710	82	77	0.81	0.69	11.95	10.87	36.48	53.80	2.1	1.7	7.6	4.6	2.3	2.2
MSD160M2-4/8	7.5	5	1440	710	82	79	0.89	0.78	14.83	11.71	49.74	67.25	1.7	1.6	6.6	4.5	2.3	2.1
MSD160L-4/8	10	7	1450	715	84	82	0.90	0.78	19.09	15.80	65.86	93.50	1.8	1.9	5.5	5	2.3	2.1

T echnical Data (at 400V/50Hz)

Model	Power (KW)		Speed (r/min)		Eff. (%)		Power Factor (CosΦ)		Current (A)		Rated Torque (N.M)		T _{st} /T _n (Times)		I _{st} /I _n (Times)		T _{max} /T _n (Times)	
	4P	6P	4P	6P	4P	6P	4P	6P	4P	6P	4P	6P	4P	6P	4P	6P	4P	6P
MSD801-4/6	0.3	0.22	1400	910	60	55	0.74	0.69	0.98	0.84	2.05	2.31	2	1.8	4.5	4	2	2
MSD802-4/6	0.45	0.3	1410	920	63	58	0.75	0.7	1.37	1.07	3.05	3.11	2	1.8	4.5	4	2	2
MSD90S-4/6	0.66	0.45	1410	920	66	61	0.76	0.65	1.9	1.64	4.47	4.67	1.7	1.7	5	4.5	2	2
MSD90L-4/6	0.88	0.6	1420	930	70	64	0.77	0.67	2.36	2.02	5.92	6.16	1.7	1.7	5	4.5	2	2
MSD100L1-4/6	1.32	0.88	1420	940	72	67	0.85	0.75	3.11	2.3	8.88	8.94	1.8	1.8	6	5	2	2
MSD100L2-4/6	1.76	1.2	1430	950	74	70	0.85	0.75	4.04	3.3	11.75	12.06	1.8	1.8	6	5	2	2
MSD112M-4/6	2.2	1.5	1430	950	76	70	0.8	0.70	5.22	4.42	14.69	15	2	1.8	6	5	2.2	2.2
MSD132S-4/6	3.3	2.2	1440	960	82	78	0.81	0.72	7.17	5.65	21.9	21.9	2	2	7	6	2.2	2.2
MSD132M-4/6	4.5	3	1450	970	83	80	0.82	0.74	9.54	7.31	29.6	29.5	2	2	7	6	2.3	2.3
MSD160M-4/6	6.6	4.5	1460	970	84	81	0.84	0.78	13.5	10.3	43.2	44.3	1.8	1.8	7	6	2.3	2.3
MSD160L-4/6	8.8	6	1460	970	84	81	0.85	0.79	17.8	13.5	57.6	59.1	1.8	1.8	7	6	2.3	2.3

T echnical Data (at 400V/50Hz)

Model	Power (KW)		Speed (r/min)		Eff. (%)		Power Factor (CosΦ)		Current (A)		Rated Torque (N.M)		T _{st} /T _n (Times)		I _{st} /I _n (Times)		T _{max} /T _n (Times)	
	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P
MSD801-6/8	0.18	0.11	900	680	50	42	0.69	0.65	0.75	0.58	1.91	1.54	1.5	1.5	3.5	3	1.5	1.5
MSD802-6/8	0.25	0.18	920	700	54	46	0.7	0.66	0.95	0.86	2.60	2.46	1.7	1.5	3.5	3	1.5	1.7
MSD90S-6/8	0.37	0.25	930	680	58	50	0.72	0.68	1.28	1.06	3.80	3.51	1.5	1.4	4	3	1.8	1.7
MSD90L-6/8	0.55	0.37	940	685	63	54	0.73	0.69	1.73	1.43	5.59	5.16	1.5	1.4	4	3	1.8	1.7
MSD100L1-6/8	0.75	0.55	950	700	69	63	0.74	0.74	2.12	1.70	7.54	7.50	1.5	1.4	5	4	2	1.8
MSD100L2-6/8	1.03	0.75	955	705	71	65	0.76	0.76	2.76	2.19	10.30	10.16	1.5	1.4	5	4	2	1.8
MSD112M-6/8	1.25	0.95	960	710	72	64	0.71	0.71	3.53	3.02	12.43	12.78	1.5	1.5	5	4	2	1.8
MSD132S-6/8	2.2	1.5	970	720	76	70	0.71	0.7	5.88	4.42	21.66	19.90	1.6	1.4	6	5.5	2.3	2
MSD132M-6/8	3	1.85	970	720	78	74	0.71	0.7	7.82	5.01	29.54	24.37	1.6	1.4	6	5.5	2.3	2
MSD160M1-6/8	3.7	2.6	970	720	78	75	0.74	0.71	9.25	7.05	36.43	34.49	1.8	1.5	6	5.5	2.5	1.9
MSD160M2-6/8	4.5	3.3	970	720	79	76	0.78	0.72	10.54	8.70	44.30	43.77	1.8	1.7	6	5.5	2.5	2
MSD160L-4/6	6	4.5	973	720	80	77	0.79	0.73	13.70	11.55	59.89	59.69	1.8	1.7	6	5.5	2.5	2

T echnical Data (at 400V/50Hz)

Model	Power (KW)		Speed (r/min)		Eff. (%)		Power Factor (CosΦ)		Current (A)		Rated Torque (N.M)		T _{st} /T _n (Times)		I _{st} /I _n (Times)		T _{max} /T _n (Times)	
	2P	8P	2P	8P	2P	8P	2P	8P	2P	8P	2P	8P	2P	8P	2P	8P	2P	8P
MSD801-2/8	0.37	0.08	2760	660	65	33	0.76	0.48	1.08	0.73	1.28	1.16	1.7	2	3.5	2.5	1.9	2.1
MSD802-2/8	0.55	0.11	2780	670	67	35	0.78	0.50	1.52	0.91	1.89	1.57	1.7	2	4	3	1.9	2.2
MSD90S-2/8	0.75	0.18	2800	670	67	43	0.79	0.52	2.05	1.16	2.56	2.57	1.8	2	4	3	2	2.3
MSD90L-2/8	1.1	0.3	2810	680	67	45	0.8	0.54	2.96	1.78	3.74	4.21	1.8	2	4	3.5	2	2.3
MSD100L1-2/8	1.5	0.37	2820	700	67	50	0.84	0.56	3.85	1.91	5.08	5.05	1.7	2.1	5	3.5	2	2.6
MSD100L2-2/8	2.2	0.55	2820	710	68	51	0.85	0.58	5.49	2.68	7.45	7.40	1.8	2.2	5	3.5	2	2.6
MSD112M1-2/8	2.6	0.75	2840	710	71	58	0.86	0.6	6.15	3.11	8.74	10.09	1.8	1.8	5.5	4	1.9	1.9
MSD112M2-2/8	3	0.9	2850	710	75	63	0.86	0.58	6.71	3.56	10.05	12.1	1.7	2	6.5	4.5	1.9	2.2
MSD132S-2/8	3.7	1.1	2890	710	81	65	0.83	0.57	7.94	4.29	12.22	14.80	1.7	1.7	7	5	1.9	1.9
MSD132M-2/8	5.5	1.5	2900	720	82	66	0.85	0.57	11.39	5.75	18.11	19.90	1.8	1.8	7	5	1.9	1.9
MSD160M-2/8	7.5	2.2	2900	720	80	73	0.87	0.58	15.55	7.50	24.70	29.18	2.3	2.5	7	5	2.3	2.5
MSD160L-2/8	9.5	3	2920	720	82	73	0.87	0.58	19.22	10.23	31.07	39.79	2.3	2.5	7	5	2.3	2.5

T echnical Data (at 400V/50Hz)

Model	Power (KW)		Speed (r/min)		Eff. (%)		Power Factor (CosΦ)		Current (A)		Rated Torque (N.M)		T _{st} /T _n (Times)		I _{st} /I _n (Times)		T _{max} /T _n (Times)	
	2P	4P	2P	4P	2P	4P	2P	4P	2P	4P	2P	4P	2P	4P	2P	4P	2P	4P
MSD712-2/4	0.55	0.12	2850	1410	75	57	0.78	0.55	1.5	0.7	1.8	0.8	2.7	3.3	6	4	2.7	3.2
MSD802-2/4	0.75	0.19	2860	1430	75	59	0.82	0.6	2	1	2.4	1.2	3.3	2.8	7	4	2.6	2.8
MSD802-2/4	1.1	0.28	2870	1430	79	64	0.82	0.59	2.8	1.5	3.6	1.8	3.4	2.5	7.5	4.6	2.8	2.8
MSD90S-2/4	1.5	0.38	2880	1440	82	71	0.84	0.6	3.5	1.5	4.9	2.5	2.6	3.2	7.5	5.5	3.3	3.5
MSD90L-2/4	2.2	0.55	2880	1440	83	73	0.86	0.62	4.5	2	7.2	3.5	3.6	3.6	8	5.8	3.3	3.2
MSD100L1-2/4	3	0.8	2850	1430	81	77	0.9	0.72	6	2.2	10	5.2	2.1	1.9	8	5.5	2.8	2.5
MSD112M-2/4	4	1	2910	1450	85	80	0.86	0.67	8	3	13	6	3.2	3.2	10.5	8	3.4	3.7
MSD112M-2/4	4.5	1.3	2900	1440	84	81	0.93	0.81	8.5	3	14	8	2.3	1.9	9.5	6.5	2.9	2.6
MSD132S-2/4	5.5	1.4	2900	1450	85	82	0.9	0.73	10.5	3.5	18	9	2.7	2.1	9.5	6.5	3	3
MSD132S-2/4	6	1.6	2890	1440	83	80	0.92	0.79	11.5	3.9	19	10	2.5	1.8	9	6	2.9	2.7
MSD132M-2/4	9	2.5	2920	1450	86	82	0.91	0.79	17	6	29	16	2.5	1.8	10.3	6.8	2.5	2.7
MSD160M-2/4	15	3.7	3930	1460	86	86	0.91	0.76	28	8.5	48	24	2.5	2.3	8	6.4	2.9	2.6
MSD160L-2/4	18.5	4.4	2940	1470	88	87	0.91	0.74	34	10.5	59	58	3	2.7	9.5	7	3.2	3

T echnical Data (at 400V/50Hz)

Model	Power (KW)		Speed (r/min)		Eff. (%)		Power Factor (CosΦ)		Current (A)		Rated Torque (N.M)		T _{st} /T _n (Times)		I _{st} /I _n (Times)		T _{max} /T _n (Times)	
	4P	8P	4P	8P	4P	8P	4P	8P	4P	8P	4P	8P	4P	8P	4P	8P	4P	8P
MSD711-4/8	0.25	0.03	1370	710	53	30	0.67	0.44	1.2	0.5	1.7	0.4	2.4	2.5	3.5	2.8	2.5	4.8
MSD712-4/8	0.33	0.04	1360	710	58	34	0.71	0.45	1.5	0.5	2.3	0.5	2.2	4.1	4	3	2.5	4.6
MSD712-4/8	0.37	0.09	1360	650	58	45	0.69	0.61	1.5	0.5	2.5	1.3	2.4	2	3.5	2.5	2.5	2
MSD801-4/8	0.55	0.09	1410	710	64	43	0.7	0.49	2	1	3.7	1.1	2	2.6	4.5	3.5	2.5	3.6
MSD802-4/8	0.75	0.19	1430	710	76	59	0.82	0.6	1.8	0.8	2.4	1.2	3.3	2.8	7	4	2.6	2.8
MSD90S-4/8	1.1	0.18	1400	710	75	53	0.79	0.47	3	1.5	7.4	2.4	2.3	3	5.8	3.6	2.5	3.5
MSD90L-4/8	1.5	0.25	1380	700	75	57	0.83	0.49	4	1.5	10	3	2.2	2.8	5.8	3.6	2.4	3.3
MSD100L1-4/8	2.2	0.37	1430	720	79	62	0.8	0.46	4	2	14	4.5	2.1	2.5	7	4.5	2.7	3.5
MSD100L2-4/8	3	0.55	1420	710	80	67	0.82	0.5	6.6	2.5	20	7.3	2	2.3	6.9	4	2.5	3
MSD112M-4/8	4	0.75	1440	720	82	72	0.84	0.53	8.5	3	26.5	9.9	1.9	1.9	7.5	4.5	2.5	2.8
MSD132S-4/8	5.5	1.1	1450	720	84	74	0.85	0.54	11	4	36	14	2.1	1.5	8.5	5	2.5	2.8
MSD132M-4/8	7.5	1.5	1450	720	85	75	0.83	0.51	15	5.8	49	19	2.2	2	9.2	5	3	3
MSD160M-4/8	8.9	2	1460	730	87	79	0.83	0.53	18	7	58	26	2.4	1.7	8.7	4.5	3	2.6
MSD160L-4/8	11	2.8	1460	720	88	81	0.83	0.58	22	8.5	71	36	2.3	1.4	8	4	2.7	1.8
MSD160L-4/8	15	3.5	1460	720	89	82	0.83	0.56	12.5	11.5	97	45	2.2	1.6	7.5	4	2.9	2
MSD180M-4/8	18.5	4.6	1470	730	90	84	0.84	0.55	35	14	119	59	2.5	2.3	9	5.5	3	2.8
MSD180L-4/8	22	5.5	1470	730	90	83	0.85	0.6	40	16	142	71	2.4	2.1	9.5	5.5	3	2.8

Technical Data (at 400V/50Hz)

Model	Power (KW)		Speed (r/min)		Eff. (%)		Power Factor (CosΦ)		Current (A)		Rated Torque (N.M)		T _{st} /T _n (Times)		I _{st} /I _n (Times)		T _{max} /T _n (Times)	
	4P	6P	4P	6P	4P	6P	4P	6P	4P	6P	4P	6P	4P	6P	4P	6P	4P	6P
MSD71S-4/6	0.25	0.09	1380	950	48	41	0.68	0.64	1.3	0.5	1.7	0.9	2.4	2	3	2.5	2.2	2.1
MSD801-4/6	0.37	0.12	1420	960	59	47	0.68	0.58	1.5	0.7	2.4	1.1	2	2.2	4.5	4	2.3	2.9
MSD802-4/6	0.55	0.16	1420	960	64	53	0.72	0.56	1.8	0.8	3.6	1.5	1.7	2.4	4.5	4.2	2.2	3.2
MSD90S-4/6	0.75	0.25	1410	950	65	59	0.74	0.65	2.5	0.9	5	2.4	1.8	1.6	4.5	4.2	2.1	2.3
MSD90L1-4/6	1.1	0.37	1410	950	68	64	0.74	0.68	3.2	1.5	7.4	3.7	1.9	2	4.5	4.2	2.1	2.2
MSD90L2-4/6	1.5	0.5	1420	950	73	68	0.77	0.7	4	1.6	10	4.8	1.9	1.9	5.5	5	2.1	2.3
MSD100L1-4/6	1.7	0.6	1430	960	75	68	0.77	0.73	4.5	2	11	5.5	1.9	1.6	5.5	5	2.2	2.1
MSD100L2-4/6	2.2	0.75	1430	950	80	69	0.83	0.69	5	2.4	14.5	7.5	2.4	1.7	6.5	4.3	2.5	2.2
MSD100L2-4/6	3	0.9	1430	950	77	68	0.77	0.7	7.5	3	19	8	2.7	1.7	6	4.6	2.5	2.2
MSD112M-4/6	3	1	1440	950	82	72	0.84	0.72	6.5	3	19.5	9.5	2.2	1.3	7.5	4.5	2.5	2.1
MSD132S-4/6	4	1.3	1440	960	80	73	0.81	0.73	9	4	26	12.5	2.3	1.3	3.8	5.5	2.4	2.1
MSD132M1-4/6	5.5	1.6	1450	970	83	75	0.81	0.71	12	4.5	36	15	2.4	1.4	7.8	6	2.4	2.2
MSD132M1-4/6	6	2	1450	970	84	77	0.8	0.74	13	5.5	39	19	2.5	1.5	7.8	6	2.8	2.2
MSD132M1-4/6	7.5	2.2	1450	970	85	72	0.86	0.74	15	6.2	49	21	2.2	1.4	8	5.5	2.7	2.2
MSD160M-4/6	11	3.3	1460	970	86	77	0.85	0.75	22	8.5	71	32	2.5	1.3	8	4.8	3	1.9
MSD160L-4/6	15	5	1450	970	88	80	0.86	0.73	29	12.5	98	48	2.2	1.9	9	6	2.3	2.3

Technical Data (at 400V/50Hz)

Model	Power (KW)		Speed (r/min)		Eff. (%)		Power Factor (CosΦ)		Current (A)		Rated Torque (N.M)		T _{st} /T _n (Times)		I _{st} /I _n (Times)		T _{max} /T _n (Times)	
	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P	6P	8P
MSD802-6/8	0.37	0.18	940	710	64	53	0.67	0.57	1.3	0.9	3.7	2.4	2.3	2.4	4.5	3.5	2.5	2.7
MSD90S-6/8	0.75	0.32	940	710	70	57	0.73	0.61	2.1	1.4	7.5	4.2	1.9	1.6	4.6	3.3	2.5	2.2
MSD90L-6/8	1.1	0.46	940	710	67	52	0.67	0.63	4	2.4	11	6	1.8	1.6	4	3.5	2.2	1.9
MSD100L-6/8	1.5	0.63	950	710	75	62	0.72	0.66	4.3	2.5	14.5	8	2.1	1.7	5.2	4	2.3	2
MSD112M-6/8	2.2	0.93	950	720	79	68	0.75	0.62	5.5	3.5	21	12	2.6	1.7	6	4.2	2.5	2.3
MSD132S-6/8	3	1.3	970	730	83	72	0.76	0.6	7	4.5	29	16	2.4	1.8	7	4.6	2.6	2.4
MSD132M-6/8	4	1.7	970	730	83	74	0.77	0.6	9.3	5.8	39	22	2.4	1.9	7	5	2.5	2.5

Technical Data (at 400V/50Hz)

Model	Power (KW)		Speed (r/min)		Eff. (%)		Power Factor (CosΦ)		Current (A)		Rated Torque (N.M)		T _{st} /T _n (Times)		I _{st} /I _n (Times)		T _{max} /T _n (Times)	
	6P	12P	6P	12P	6P	12P	6P	12P	6P	12P	6P	12P	6P	12P	6P	12P	6P	12P
MSD802-6/12	0.37	0.06	930	450	59	30	0.71	0.57	1.3	0.5	3.7	1.2	1.6	1.9	3.5	2	1.9	2
MSD802-6/12	0.55	0.08	930	450	64	38	0.74	0.57	1.7	0.53	5.6	1.7	1.6	1.8	4	2	2	2
MSD90S-6/12	0.75	0.1	930	460	66	41	0.75	0.47	2.2	0.8	7	2	1.4	1.8	3.6	2	1.9	2.2
MSD90L-6/12	1.1	0.15	930	460	67	42	0.73	0.46	3.2	1.2	11	3	1.7	2.1	3.8	2	2	2.3
MSD100L-6/12	1.5	0.2	940	470	73	48	0.75	0.44	4	1.5	15	4	2.1	3.2	4.8	1.5	2.4	3.1
MSD112M-6/12	2.2	0.3	950	470	77	54	0.74	0.41	5.5	2	22	6	2.2	3	5.3	2.7	2.5	3.2
MSD132S-6/12	3	0.4	960	480	77	51	0.7	0.39	8	2.9	29	7	2.6	3.4	6	3.5	3	3.9
MSD132M1-6/12	4	0.55	970	480	80	57	0.72	0.39	10	3.6	39	10	2.7	3.4	6.5	3.6	3.2	4.2
MSD132M2-6/12	5.5	0.75	970	480	81	59	0.73	0.39	13.5	4.7	54	14	2.9	3.5	7	3.5	2.7	3.9

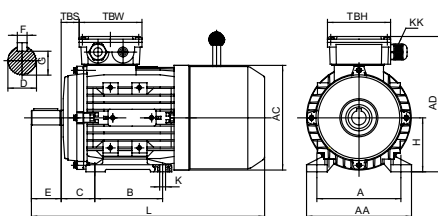
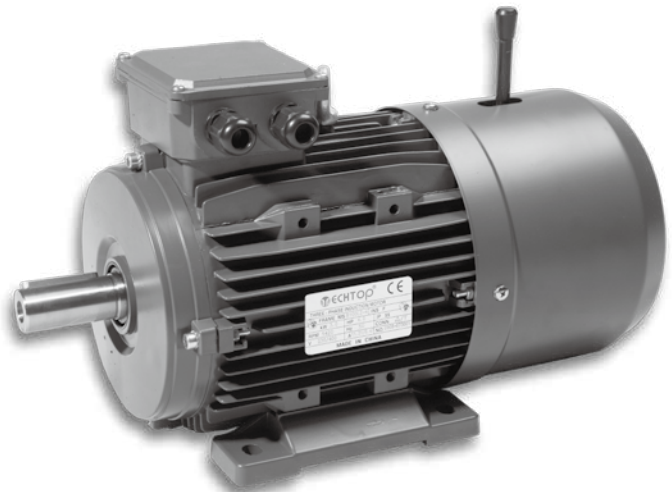
MSBCCL Series

Asynchronous Three-Phase Brake Motors With Squirrel Cage Rotor - Direct Current Brake

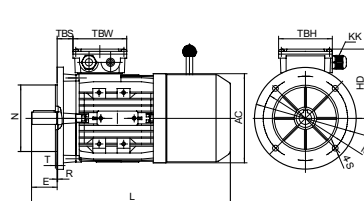
▪ MSBCCL series-enclosed construction externally ventilated-sizes 63~160

The brake-motors of the MSBCCL series result from coupling an asynchronous three-phase motor and an electromagnetic D.C. brake unit. Due to their reliability and operating safety, as well as their quick braking time (connection & disconnection time = 5~80 milliseconds) they are suitable for a great variety of applications, such as:

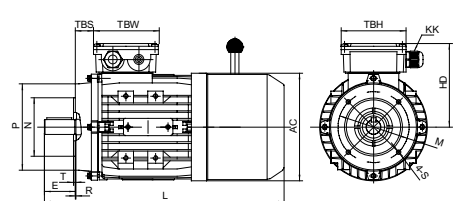
- Braking of loads or torques on the driving shaft.
- Braking of rotating masses to reduce any lost-time.
- Braking operations to increase the set-up precision.
- Braking of machine parts, according to safety rules.



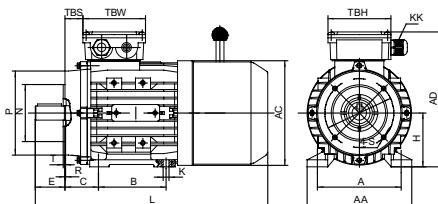
IM B3



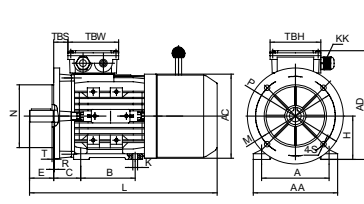
IM B5



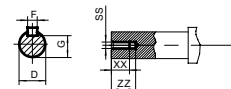
IM B14



IM B34



IM B35





Overall & Installation Dimensions

FRAME	Foot Mounting				Shaft								General							
	H	A	B	C	D	E	F	G	K	SS	XX	ZZ	AA	AD	HD	AC	L	TBS	TBW	TBH
56	56	90	71	36	Φ9	20	3	7.2	5.8*8.8	M4	9	12	110	152	96	Φ110	233	14	88	88
63	63	100	80	40	Φ11	23	4	8.5	7*10	M4	10	14	124	169	106	Φ121	265	14	94	94
71 ^{☆☆}	71	112	90	45	Φ14	30	5	11	7*10	M5	12	17	140	184	113	Φ139	287/301	20	94	94
80	80	125	100	50	Φ19	40	6	15.5	10*13	M6	16	21	160	211	131	Φ156	340	27	105	105
90S	90	140	100	56	Φ24	50	8	20	10*13	M8	19	25	175	228	138	Φ175	356	30	105	105
90L1/L2	90	140	125	56	Φ24	50	8	20	10*13	M8	19	25	175	228	138	Φ175	381/411	30	105	105
100 ^{☆☆}	100	160	140	63	Φ28	60	8	24	12*15	M10	22	30	200	248	148	Φ196	434/452	26	105	105
112	112	190	140	70	Φ28	60	8	24	12*15	M10	22	30	230	278	166	Φ221	465	32	112	112
132S	132	216	140	89	Φ38	80	10	33	12*15	M12	28	37	255	316	184	Φ256	518	38	112	112
132M/L	132	216	178	89	Φ38	80	10	33	12*15	M12	28	37	255	316	184	Φ256	556/582	38	112	112
160M/L	160	254	210/254	108	Φ42	110	12	37	15*19	M16	36	45	314	282	222	Φ313	701	64	143	143

FRAME	KK	B5						B14						B5R						B14B					
		N	M	P	S	T	R	N	M	P	S	T	R	N	M	P	T	S	R	N	M	P	T	S	R
56	1-M16*1.5	Φ80	Φ100	Φ120	Φ7	3	0	Φ50	Φ65	Φ80	M5	2.5	0												
63	1-M16*1.5	Φ95	Φ115	Φ140	Φ10	3	0	Φ60	Φ75	Φ90	M5	2.5	0												
71	1-M20*1.5	Φ110	Φ130	Φ160	Φ10	3.5	0	Φ70	Φ85	Φ105	M6	2.5	0	Φ95	Φ115	Φ140	3	Φ10	0	Φ95	Φ115	Φ140	3	M8	0
80	1-M20*1.5	Φ130	Φ165	Φ200	Φ12	3.5	0	Φ80	Φ100	Φ120	M6	3	0	Φ110	Φ130	Φ160	3.5	Φ10	0	Φ110	Φ130	Φ160	3.5	M8	0
90	1-M20*1.5	Φ130	Φ165	Φ200	Φ12	3.5	0	Φ95	Φ115	Φ140	M8	3	0	Φ110	Φ130	Φ160	3.5	Φ10	0	Φ110	Φ130	Φ160	3.5	M8	0
100	2-M20*1.5	Φ180	Φ215	Φ250	Φ15	4	0	Φ110	Φ130	Φ160	M8	3.5	0	Φ130	Φ165	Φ200	3.5	Φ12	0	Φ130	Φ165	Φ200	3.5	M10	0
112	2-M25*1.5	Φ180	Φ215	Φ250	Φ15	4	0	Φ110	Φ130	Φ160	M8	3.5	0	Φ130	Φ165	Φ200	3.5	Φ12	0	Φ130	Φ165	Φ200	3.5	M10	0
132	2-M25*1.5	Φ230	Φ265	Φ300	Φ15	4	0	Φ130	Φ165	Φ200	M10	3.5	0	Φ180	Φ215	Φ250	4	Φ15	0	Φ180	Φ215	Φ250	4	M12	0
160	2-M32*1.5	Φ250	Φ300	Φ350	Φ19	5	0	Φ180	Φ215	Φ250	M12	4	0												



EACH brake data

Frame size	Brake type	Brake torque (Speed 100r/min) (Nm)	Brake rated power(20℃) (W)	Delay time when power on (ms)	Brake time (ms)	Pick in time when power off (ms)
56-71	06	4	20	15	30	40
80	08	8	25	15	32	50
90	10	16	30	25	45	69
100	12	32	40	26	56	108
112	14	60	50	27	57	190
132	16	80	55	30	60	200
160	18	150	85	35	78	260



NTORQ brake data

Frame size	Brake type	Brake torque (Speed 100r/min) (Nm)	Brake rated power(20℃) (W)	Delay time when power on (ms)	Brake time (ms)	Pick in time when power off (ms)
56-71	06	4	20	10	23	52
80	08	8	25	15	31	60
90	10	16	30	31	50	65
100	12	32	40	39	64	145
112	14	60	50	26	51	205
132	16	80	55	40	70	258



MSB Series Motors Technical Data (at 50Hz)

Model	Power (kw)	Current (A)			Current (A)			Current (A)			Speed (r/min)	Eff			Power factor	Tst/Tn (Times)	Tmax/Tn (Times)	Tmin/Tn (Times)	Ist/In (Times)	Noise dB(A)
		220V	380V	660V	230V	400V	690V	240V	415V	720V		100%	75%	50%						
MSB 631-2	0.18	0.92	0.53	0.31	0.88	0.51	0.29	0.85	0.49	0.28	2780	66.5	64.2	56.8	0.77	2.3	2.5	2.4	4.1	61
MSB 632-2	0.25	1.19	0.69	0.40	1.14	0.65	0.38	1.09	0.63	0.36	2780	69.8	68.8	62.8	0.79	2.6	2.5	2.4	4.3	61
MSB 633-2	0.37	1.72	1.00	0.57	1.65	0.95	0.55	1.58	0.91	0.53	2750	71.4	71.2	65.9	0.79	2.8	2.6	2.6	4.7	62
MSB 711-2	0.37	1.70	0.99	0.57	1.63	0.94	0.54	1.56	0.90	0.52	2830	71.3	70.4	65.2	0.8	2.8	2.9	2	5.9	64
MSB 712-2	0.55	2.52	1.46	0.84	2.41	1.39	0.80	2.31	1.34	0.77	2815	71.6	71	66.1	0.8	2.7	2.7	1.8	6	64
MSB 713-2	0.75	3.25	1.88	1.08	3.11	1.79	1.04	2.98	1.72	0.99	2820	73.8	73.9	70.3	0.82	3.0	3.0	2.0	6.6	65
MSB 801-2	0.75	3.15	1.83	1.05	3.02	1.73	1.01	2.89	1.67	0.96	2830	75.2	75.6	72.2	0.83	3	2.8	2	6.2	67
MSB 802-2	1.1	4.40	2.55	1.47	4.21	2.42	1.40	4.04	2.33	1.35	2840	79	79.8	77.7	0.83	2.6	3.1	2.6	6.1	67
MSB 803-2	1.5	5.70	3.30	1.90	5.46	3.14	1.82	5.23	3.02	1.74	2820	81.2	82.5	81.3	0.85	3.2	3	2.5	7.2	70
MSB 90S-2	1.5	5.73	3.32	1.91	5.48	3.15	1.83	5.25	3.04	1.75	2850	80.8	81.2	78.9	0.85	2.8	3.3	2.6	7.7	72
MSB 90L1-2	2.2	8.19	4.74	2.73	7.84	4.51	2.61	7.51	4.34	2.50	2860	82.9	83.4	81.4	0.85	3.7	3.9	3.3	8.8	72
MSB 90L2-2	3	11.1	6.43	3.70	10.6	6.11	3.54	10.2	5.89	3.39	2830	82.4	83.5	82.3	0.86	4.4	4.2	3.5	8	74
MSB 100L1-2	3	10.9	6.32	3.64	10.4	6.00	3.48	10.0	5.78	3.33	2875	83.9	84.5	83	0.86	2.8	3.2	2	8.1	76
MSB 100L2-2	4	13.8	7.99	4.60	13.2	7.59	4.40	12.6	7.31	4.22	2870	85.5	86.5	85.8	0.89	3.2	3.4	2.2	8.8	77
MSB 112M-2	4	13.2	7.63	4.40	12.6	7.25	4.20	12.1	6.99	4.03	2870	85.6	87.0	86.8	0.93	2.6	2.85	1.75	8.1	77
MSB 112L-2	5.5	18.0	10.4	6.00	17.2	9.9	5.74	16.5	9.5	5.50	2890	87.1	88	87.6	0.92	3.1	3.3	2	9.4	78
MSB 132S1-2	5.5	18.5	10.7	6.17	17.7	10.2	5.90	17.0	9.8	5.65	2900	86.6	87.4	86.5	0.90	2.25	3.1	1.5	7.9	80
MSB 132S2-2	7.5	24.6	14.2	8.19	23.5	13.5	7.84	22.5	13.0	7.51	2900	88.0	88.8	88.3	0.91	2.4	3.25	1.5	8.5	80
MSB 132M1-2	9.2	30.8	17.8	10.3	29.5	17.0	9.83	28.3	16.3	9.42	2930	88	88	86.4	0.89	2	2.2	1.2	7.5	81
MSB 132M2-2	11	36.3	21.0	12.1	34.7	20.0	11.6	33.3	19.2	11.1	2930	88.4	88.6	87.5	0.9	2	2.2	1.2	7.5	83
MSB 160M1-2	11	36.4	21.1	12.1	34.8	20.0	11.6	33.4	19.3	11.1	2920	88.8	89.4	88.6	0.89	2.6	2.95	1.85	7.1	86
MSB 160M2-2	15	49.3	28.5	16.4	47.2	27.1	15.7	45.2	26.1	15.1	2910	89.1	90.0	89.6	0.90	2.2	2.8	1.8	6.4	86
MSB 160L-2	18.5	59.3	34.4	19.8	56.8	32.6	18.9	54.4	31.5	18.1	2930	90.3	90.9	90.3	0.91	2.9	3.05	1.65	8.4	86
MSB 631-4	0.12	0.89	0.51	0.30	0.85	0.49	0.28	0.81	0.47	0.27	1390	58.5	54.3	45.6	0.61	2.65	2.8	2.7	3.2	52
MSB 632-4	0.18	1.15	0.67	0.38	1.10	0.63	0.37	1.06	0.61	0.35	1365	64.2	62.5	55.9	0.64	2.8	2.55	2.4	3.6	52
MSB 633-4	0.25	1.45	0.84	0.48	1.39	0.80	0.46	1.33	0.77	0.44	1370	68.3	67.5	62.1	0.66	2.7	2.7	2.4	3.9	54
MSB 711-4	0.25	1.38	0.80	0.46	1.32	0.76	0.44	1.27	0.73	0.42	1395	65.1	63.1	55.8	0.73	2	2.15	1.6	4.2	55
MSB 712-4	0.37	1.90	1.10	0.63	1.82	1.05	0.61	1.74	1.01	0.58	1390	68.6	68.2	62.9	0.74	2.25	2.35	1.95	4.6	55
MSB 713-4	0.55	2.81	1.63	0.94	2.69	1.54	0.90	2.57	1.49	0.86	1390	71.9	71.6	66.8	0.72	2.8	2.8	2.4	4.8	57
MSB 801-4	0.55	2.74	1.59	0.91	2.62	1.51	0.87	2.51	1.45	0.84	1400	70.9	70.5	65.5	0.74	2.25	2.55	1.95	4.9	58
MSB 802-4	0.75	3.36	1.94	1.12	3.21	1.85	1.07	3.08	1.78	1.03	1390	74.4	76.0	73.9	0.79	2.5	2.55	2.05	5.4	58
MSB 803-4	1.1	4.90	2.84	1.63	4.69	2.69	1.56	4.49	2.60	1.50	1390	74.6	75.7	73.3	0.79	2.9	2.9	2.4	5.9	60
MSB 90S-4	1.1	4.90	2.83	1.63	4.68	2.69	1.56	4.49	2.60	1.50	1400	75.5	76.7	74.4	0.78	2.9	2.7	2.15	6	61
MSB 90L1-4	1.5	6.48	3.75	2.16	6.20	3.56	2.07	5.94	3.44	1.98	1410	79.6	80.2	78.0	0.76	3.4	3.3	2.7	6.9	61
MSB 90L2-4	2.2	9.76	5.65	3.25	9.33	5.37	3.11	8.94	5.17	2.98	1410	78.9	79.4	77	0.75	3.8	2.6	3.2	7.2	63
MSB 100L1-4	2.2	8.71	5.05	2.90	8.34	4.79	2.78	7.99	4.62	2.66	1420	82.0	83.3	82.3	0.81	2.4	2.7	2.15	6.3	64
MSB 100L2-4	3	11.5	6.64	3.82	11.0	6.31	3.66	10.5	6.08	3.51	1430	83.7	84.8	83.8	0.82	2.6	3	2.15	6.8	64
MSB 100L3-4	4	15.2	8.80	5.07	14.5	8.36	4.85	13.9	8.06	4.65	1430	84.2	85.5	85.3	0.82	2.2	2.3	1.5	7	65
MSB 112M-4	4	14.9	8.60	4.95	14.2	8.17	4.74	13.6	7.88	4.54	1440	84.7	86.0	85.4	0.83	2.5	2.9	2.05	7.1	65
MSB 112L-4	5.5	20.4	11.8	6.81	19.5	11.2	6.51	18.7	10.8	6.24	1435	85.9	87.1	86.6	0.82	2.5	2.95	2.2	7.2	68
MSB 132S-4	5.5	19.6	11.4	6.54	18.76	10.8	6.25	18.0	10.4	5.99	1445	86.4	87.8	87.7	0.85	2.15	2.85	1.75	7.5	71
MSB 132M-4	7.5	25.9	15.0	8.62	24.7	14.2	8.24	23.7	13.7	7.90	1450	87.6	88.8	88.5	0.87	2.1	2.9	1.65	8.6	71
MSB 132L1-4	9.2	31.3	18.1	10.4	30.0	17.2	10.0	28.7	16.6	9.6	1450	88.6	89.5	89.1	0.87	2.8	2.4	2	8.4	74
MSB 132L2-4	11	37.3	21.6	12.4	35.6	20.5	11.9	34.2	19.8	11.4	1450	90.1	91.1	91	0.86	3	2.5	2	8.9	74
MSB 160M-4	11	39.7	23.0	13.2	37.9	21.8	12.6	36.4	21.0	12.1	1450	87.7	89.6	90.3	0.83	2.05	2.25	1.55	6.1	75
MSB 160L1-4	15	51.9	30.1	17.3	49.7	28.5	16.6	47.6	27.5	15.9	1455	88.7	90.0	90.2	0.86	2.2	2.45	1.4	7.3	75
MSB 160L2-4	18.5	63.1	36.5	21.0	60.4	34.7	20.1	57.9	33.5	19.3	1460	90.5	91	90.6	0.85	2.2	2.2	1.4	7.5	78
MSB 631-6	0.09	0.75	0.44	0.25	0.72	0.41	0.24	0.69	0.40	0.23	890	50.7	47.6	39.8	0.62	2	2.2	1.9	2.9	50
MSB 632-6	0.12	0.97	0.56	0.32	0.93	0.54	0.31	0.89	0.52	0.30	895	53.7	50.9	43.2	0.60	2.3	2.2	2.1	2.8	50
MSB 711-6	0.18	1.11	0.64	0.37	1.06	0.61	0.35	1.02	0.59	0.34	905	63.0	61.6	55.4	0.67	2.15	2.4	2	3.5	52
MSB 712-6	0.25	1.56	0.90	0.52	1.49	0.86	0.50	1.43	0.83	0.48	885	62.6	62.0	55.8	0.67	2.05	2.3	2.05	3.2	52
MSB 713-6	0.37	2.32	1.34	0.77	2															

MSBCCL Series Brake Motors

Operating Principle

The direct current brake is fed by means of an electronic circuit with diode bridge (rectifier) situated inside the terminal-box. When feeding the electromagnet (5), the movable anchor (4) is attracted towards the same, thus loading the braking torque springs (9) and allowing the disk (2), equipped with friction packing and fitted on the groove hub (6) to turn solitary the motor shaft (1) by means of a key (7). By interrupting the feeding, the movable anchor (4), pushed by the braking torque springs (9), exerts a pressure upon the friction surface of the disk (2), thus causing its stopping.

Adjustment Of The Air Gap

The air gap (11) is the distance between the electromagnet (5) and the movable anchor (9).

The air gap has to be regularly checked, since due to the wear of the friction packing (2) it tends to increase.

Act on the brake adjusters (3) after having unloosen the screws (8) to bring the air gap to the required value.

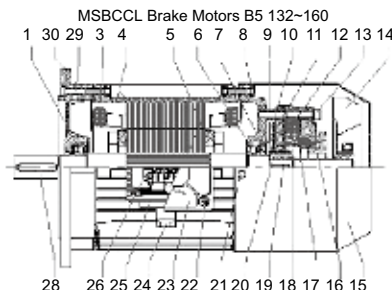
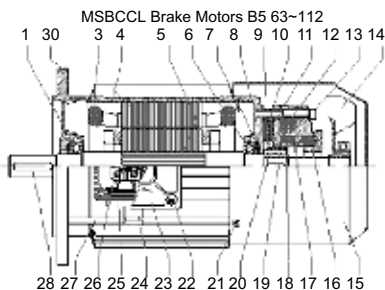
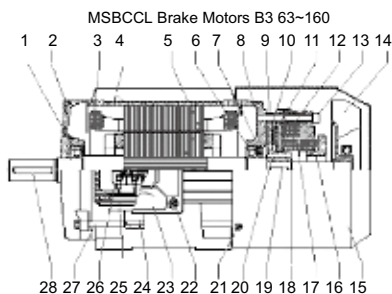
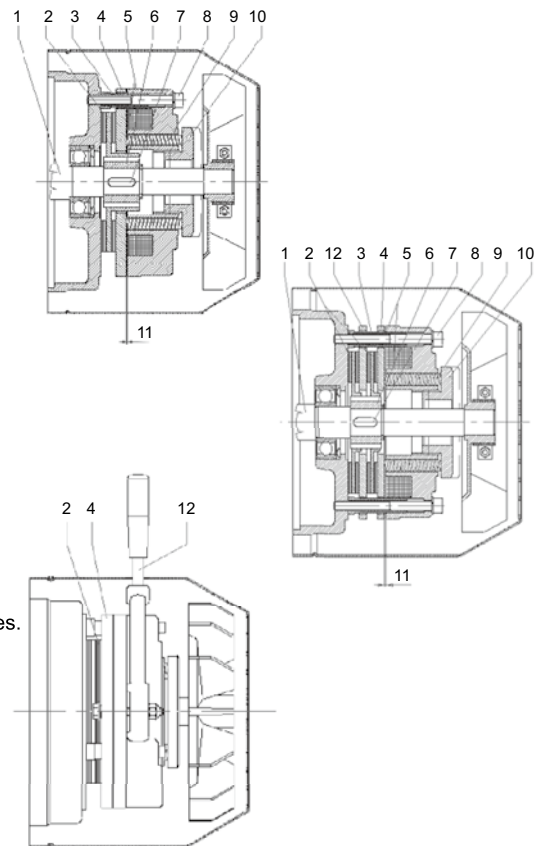
Act on the ring nut (10) which acts on the braking torque springs (9) to adjust the braking torque.

Pls. contact our technical department for information on the air gap adjustment values.

Hand Release With Lever

Upon request a hand release with lever can be supplied.

In case of a current cutoff, acting on the lever (12), the release, connected to the movable anchor (4) overcomes the springs pressure, thus detaching the movable anchor from the disc friction packing (2) allowing the shaft to turn.



Spare Parts

1. Front bearing
2. Front shield
3. Winding
4. Frame with stator package
5. Shaft with rotor
6. Rear bearing
7. Spring
8. Rear shield
9. Adjusting bush
10. Brake disc
11. Moving anchor
12. Electromagnet coil with diode
13. Fixing screws for brake
14. Cooling fan
15. Fan hood
16. Ring nut
17. Spring
18. See gearing
19. Key brake side
20. Toothed pinion
21. Fixing screw for fan hood
22. Fixing crew for terminal-box
23. Terminal-box
24. Able-holder
25. Packing
26. Terminal-block
27. Tie-bolt
28. Coupling side key
29. Fixing screw for shield
30. Flange shield

ML Series

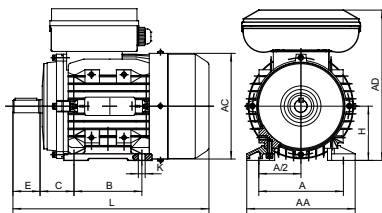
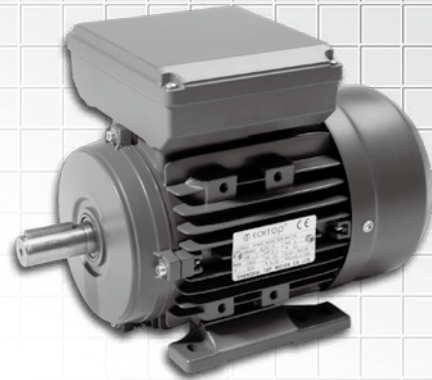
Single-Phase Capacitor Start and Capacitor Run Asynchronous Motors

Aluminum Housing

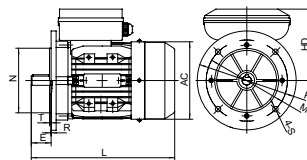
ML series aluminum housing single-phase dual-capacitor asynchronous motors, with latest design in entirety, are made of selected quality materials and conform to the IEC standard.

ML motors have good performance, safety and reliable operation, the multiple of starting torque is up to 2.5.

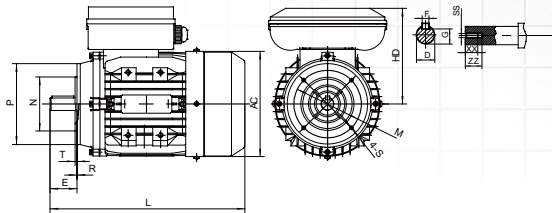
These series motors are suitable for the occasion where the requirements of big starting torque and high over load, such as air compressors, pumps, and many other small machines.



IM B3



IM B5



IM B14

Overall & Installation Dimensions

FRAME	Mounting Dimensions									Overall Dimensions					Shaft End Screw Dimensions		
	H	A	B	C	D	E	F	G	K	AA	AD	HD	AC	L	SS	XX	ZZ
ML 63	63	100	80	40	Φ11	23	4	8.5	7×10	120	179	116	Φ121	217	M4	10	14
ML 71	71	112	90	45	Φ14	30	5	11	7×10	132	194	123	Φ139	255	M5	12	17
ML 80	80	125	100	50	Φ19	40	6	15.5	10×13	160	223	143	Φ156	290	M6	16	21
ML 90S	90	140	100	56	Φ24	50	8	20	10×13	175	240	150	Φ174	335	M8	19	25
ML 90L	90	140	125	56	Φ24	50	8	20	10×13	175	240	150	Φ174	365	M8	19	25
ML 100L	100	160	140	63	Φ28	60	8	24	12×15	198	271	171	Φ196	403(421)	M10	22	30
ML 112M	112	190	140	70	Φ28	60	8	24	12×15	220	297	185	Φ221	431	M10	22	30

FRAME	KK	B5						B14						B5R						B14B					
		N	M	P	S	T	R	N	M	P	S	T	R	N	M	P	T	S	R	N	M	P	T	S	R
ML 63	1-M20*1.5	Φ95	Φ115	Φ140	Φ10	3	0	Φ60	Φ75	Φ90	M5	2.5	0												
ML 71	1-M20*1.5	Φ110	Φ130	Φ160	Φ10	3.5	0	Φ70	Φ85	Φ105	M6	2.5	0	Φ95	Φ115	Φ140	3	Φ10	0	Φ95	Φ115	Φ140	3	M8	0
ML 80	1-M20*1.5	Φ130	Φ165	Φ200	Φ12	3.5	0	Φ80	Φ100	Φ120	M6	3	0	Φ110	Φ130	Φ160	3.5	Φ10	0	Φ110	Φ130	Φ160	3.5	M8	0
ML 90	1-M20*1.5	Φ130	Φ165	Φ200	Φ12	3.5	0	Φ95	Φ115	Φ140	M8	3	0	Φ110	Φ130	Φ160	3.5	Φ10	0	Φ110	Φ130	Φ160	3.5	M8	0
ML 100	1-M20*1.5	Φ180	Φ215	Φ250	Φ15	4	0	Φ110	Φ130	Φ160	M8	3.5	0	Φ130	Φ165	Φ200	3.5	Φ12	0	Φ130	Φ165	Φ200	3.5	M10	0
ML 112	1-M25*1.5	Φ180	Φ215	Φ250	Φ15	4	0	Φ110	Φ130	Φ160	M8	3.5	0	Φ130	Φ165	Φ200	3.5	Φ12	0	Φ130	Φ165	Φ200	3.5	M10	0

Technical Data (at 230V/50Hz)

MODEL	Power (KW)	Current (A)	Speed (r/min)	Eff (%)	Power factor (cos ϕ)	T _{st} /T _n (Times)	T _{max} /T _n (Times)	Starting Current(A)	Run Capacitor (μ f/V)	Start Capacitor (μ f/V)	Noise dB(A)	W.T (kg)	Inertia kg*m ²
ML631-2	0.18	1.36	2820	62	0.93	1.9	1.8	7	8 μ f/450V	30 μ f/250V	70	3.9	0.000141
ML632-2	0.25	1.71	2800	67.5	0.94	2.3	1.8	8	10 μ f/450V	30 μ f/250V	70	4.4	0.000168
ML711-2	0.37	2.40	2780	70.5	0.95	2.5	1.6	12	12 μ f/450V	40 μ f/250V	75	6.2	0.000330
ML712-2	0.55	3.31	2790	74.5	0.97	2.5	1.8	20	16 μ f/450V	50 μ f/250V	75	7	0.000437
ML801-2	0.75	4.25	2840	77.5	0.99	2.5	1.8	30	20 μ f/450V	75 μ f/250V	75	9	0.000781
ML802-2	1.1	6.08	2850	79.5	0.99	2.3	1.8	40	30 μ f/450V	120 μ f/250V	78	10.3	0.000938
ML90S-2	1.5	8.23	2860	80	0.99	2.5	1.8	56	40 μ f/450V	200 μ f/300V	80	13.8	0.001512
ML90M-2	1.8	9.76	2860	81	0.99	2.5	1.8	65	40 μ f/450V	200 μ f/300V	80	15.1	0.001752
ML90L-2	2.2	11.9	2850	81	0.99	2.5	1.75	15	50 μ f/450V	250 μ f/300V	80	16.8	0.001995
ML100L-2	3	17.7	2830	75	0.98	2.5	1.63	110	60 μ f/450V	300 μ f/300V	83	25	0.004803
ML112M1-2	3.7	19.9	2900	82.5	0.98	2.5	1.8	155	60 μ f/450V	400 μ f/300V	84	31	0.007170
ML112M2-2	4	21.3	2900	83.5	0.98	2.5	1.8	165	60 μ f/450V	400 μ f/300V	84	33	0.007453
ML631-4	0.12	1.01	1380	54.5	0.95	2.5	1.65	6	8 μ f/450V	30 μ f/250V	65	4.1	0.000291
ML632-4	0.18	1.36	1340	60	0.96	2.3	1.43	6	10 μ f/450V	30 μ f/250V	65	4.5	0.000340
ML711-4	0.25	1.78	1415	63	0.97	2.5	1.7	10	12 μ f/450V	40 μ f/250V	65	5.9	0.000598
ML712-4	0.37	2.53	1410	65.5	0.97	2.3	1.6	15	16 μ f/450V	50 μ f/250V	68	6.9	0.000760
ML800-4	0.37	2.52	1420	66.5	0.96	2.5	1.8	15	16 μ f/450V	50 μ f/250V	68	8.5	0.001105
ML801-4	0.55	3.52	1420	71.5	0.95	2.5	1.8	20	20 μ f/450V	75 μ f/250V	70	9.6	0.001380
ML802-4	0.75	4.56	1420	73	0.98	2.5	1.75	27	25 μ f/450V	100 μ f/250V	70	10.9	0.001656
ML90S-4	1.1	6.62	1420	76	0.95	2.5	1.7	40	35 μ f/450V	150 μ f/250V	73	13.8	0.002510
ML90L-4	1.5	8.56	1420	78.5	0.97	2.5	1.75	55	40 μ f/450V	200 μ f/300V	75	16.7	0.003252
ML100L0-4	1.84	10.3	1440	79.5	0.98	2.3	1.62	60	50 μ f/450V	200 μ f/300V	77	21	0.006804
ML100L1-4	2.2	12.1	1440	80.5	0.98	2.5	1.65	80	50 μ f/450V	250 μ f/300V	78	22.8	0.008045
ML100L2-4	3	16.4	1445	83	0.96	2.4	1.75	110	60 μ f/450V	300 μ f/300V	78	28.7	0.010543
ML112M1-4	3.7	19.7	1430	83.5	0.98	2.4	1.75	130	60 μ f/450V	400 μ f/300V	79	31	0.013608
ML112M2-4	4	21.3	1435	83.5	0.98	2.5	1.75	140	60 μ f/450V	400 μ f/300V	79	32.8	0.014485
ML711-6	0.18	1.3	930	60	0.97	2.3	1.72	7	10 μ f/450V	40 μ f/250V	68	6.7	0.000965
ML801-6	0.37	2.5	935	67	0.97	2.2	1.55	13	16 μ f/450V	50 μ f/250V	68	10.1	0.001829
ML802-6	0.55	3.5	935	71	0.97	2.2	1.45	20	20 μ f/450V	75 μ f/250V	70	10.8	0.002366
ML90S-6	0.75	4.7	945	71	0.97	2.1	1.45	35	30 μ f/450V	150 μ f/250V	70	14.2	0.003534
ML90L-6	1.1	6.7	945	74	0.96	2.5	1.45	45	45 μ f/450V	200 μ f/300V	70	17.3	0.004792
ML100L-6	1.5	8.73	960	77	0.97	2.3	1.55	60	45 μ f/450V	200 μ f/300V	72	23.8	0.010784
ML112M-6	2.2	12.0	965	82	0.97	2.5	1.7	100	60 μ f/450V	400 μ f/300V	75	31.2	0.019523

MY/MYT Series

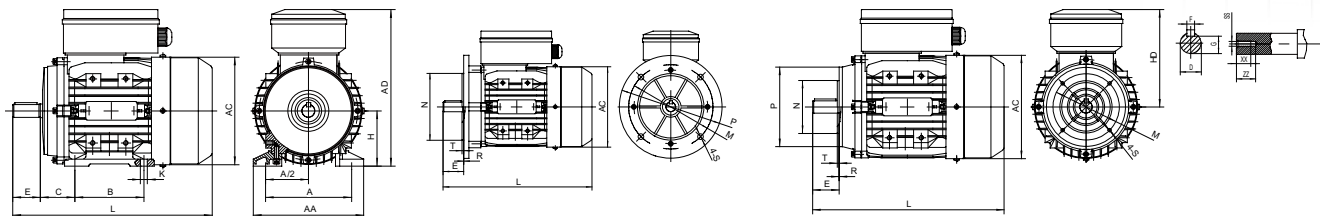
Single-Phase Capacitor Run Asynchronous Motors

Aluminum Housing

MY/MYT series aluminum housing single-phase capacitor-run asynchronous motors, with latest design in entirety, are made of selected quality materials and conform to the IEC standard.

MY motors have good performance, safety and reliable operation, nice appearance, and can be maintained very conveniently, while with low noises, little vibration and at the same time of light weight and simple construction. The multiple of starting torque is 0.3~0.7(MY), 0.45~0.75(MYT).

These series motors are suitable for the occasion where there requirements of starting torque is low and long-term continuous working, such as home electric appliances, pumps, fans, and recording meters, etc.



Overall & Installation Dimensions

FRAME	Mounting Dimensions									Overall Dimensions					Shaft End Screw Dimensions		
	H	A	B	C	D	E	F	G	K	AA	AD	HD	AC	L	SS	XX	ZZ
MY 56	56	90	71	36	Φ9	20	3	7.2	5.8×8.8	110	144	88	Φ110	193	M4	9	12
MY 63	63	100	80	40	Φ11	23	4	8.5	7×10	120	181	118	Φ121	217	M4	10	14
MY 71	71	112	90	45	Φ14	30	5	11	7×10	132	196	125	Φ139	241/255	M5	12	17
MY 80	80	125	100	50	Φ19	40	6	15.5	10×13	160	226	146	Φ156	290	M6	16	21
MY 90S	90	140	100	56	Φ24	50	8	20	10×13	175	243	153	Φ174	310	M8	19	25
MY 90L	90	140	125	56	Φ24	50	8	20	10×13	175	243	153	Φ174	335/365	M8	19	25
MY 100L	100	160	140	63	Φ28	60	8	24	12×15	198	265	165	Φ196	369/387	M10	22	30

FRAME	KK	B5						B14						B5R						B14B					
		N	M	P	S	T	R	N	M	P	S	T	R	N	M	P	T	S	R	N	M	P	T	S	R
MY 56	1-M16*1.5	Φ80	Φ100	Φ120	Φ7	3	0	Φ50	Φ65	Φ80	M5	2.5	0												
MY 63	1-M20*1.5	Φ95	Φ115	Φ140	Φ10	3	0	Φ60	Φ75	Φ90	M5	2.5	0							Φ80	Φ100	Φ120	3	M6	0
MY 71	1-M20*1.5	Φ110	Φ130	Φ160	Φ10	3.5	0	Φ70	Φ85	Φ105	M6	2.5	0	Φ95	Φ115	Φ140	3	Φ10	0	Φ95	Φ115	Φ140	3	M8	0
MY 80	1-M20*1.5	Φ130	Φ165	Φ200	Φ12	3.5	0	Φ80	Φ100	Φ120	M6	3	0	Φ110	Φ130	Φ160	3.5	Φ10	0	Φ110	Φ130	Φ160	3.5	M8	0
MY 90	1-M20*1.5	Φ130	Φ165	Φ200	Φ12	3.5	0	Φ95	Φ115	Φ140	M8	3	0	Φ110	Φ130	Φ160	3.5	Φ10	0	Φ110	Φ130	Φ160	3.5	M8	0
MY 100	1-M20*1.5	Φ180	Φ215	Φ250	Φ15	4	0	Φ110	Φ130	Φ160	M8	3.5	0	Φ130	Φ165	Φ200	3.5	Φ12	0	Φ130	Φ165	Φ200	3.5	M10	0

MODEL	Power (KW)	Current (A)	Speed (r/min)	Eff (%)	Power factor (cos ϕ)	T_{st}/T_n (Times)	T_{max}/T_n (Times)	Starting Current(A)	Run Capacitor (μ f/V)	Noise dB(A)	W.t. (Kg)	Inertia kg*m ²
MY561-2	0.09	0.81	2750	51	0.95	0.7	1.7	2	5 μ f/450V	67	3	0.000093
MY562-2	0.12	0.89	2800	61	0.96	0.7	1.8	3.1	6 μ f/450V	67	3.2	0.000120
MY631-2	0.18	1.31	2770	62	0.96	0.55	1.8	4.5	8 μ f/450V	70	3.8	0.000141
MY632-2	0.25	1.65	2780	68	0.97	0.55	1.8	6	10 μ f/450V	70	4.5	0.000168
MY633-2	0.37	2.51	2780	67.5	0.95	0.46	1.65	8	12 μ f/450V	75	5	0.000216
MY634-2	0.55	3.52	2740	70	0.97	0.46	1.55	12	16 μ f/450V	75	5.5	0.000249
MY711-2	0.37	2.54	2780	68	0.93	0.5	1.64	9.5	12 μ f/450V	75	5.5	0.000330
MY712-2	0.55	3.45	2800	73	0.95	0.5	1.8	14.5	16 μ f/450V	75	6.7	0.000356
MY713-2	0.75	4.45	2840	75.5	0.97	0.48	1.8	20	25 μ f/450V	75	7	0.000436
MY801-2	0.75	4.51	2810	73	0.99	0.45	1.75	19	25 μ f/450V	75	8.9	0.000789
MY802-2	1.1	6.30	2810	77.5	0.98	0.45	1.8	30	35 μ f/450V	78	11	0.001174
MY803-2	1.5	8.48	2820	78.5	0.98	0.34	1.68	40	40 μ f/450V	80	12.7	0.001430
MY90S-2	1.5	8.45	2820	78	0.99	0.33	1.72	35	45 μ f/450V	80	12.2	0.001512
MY90L-2	2.2	12.08	2850	80	0.99	0.29	1.8	61	60 μ f/450V	80	15.5	0.001983
MY100L-2	3	16.7	2860	79	0.99	0.35	1.8	73	80 μ f/450V	83	23.1	0.004803
MY561-4	0.06	0.55	1410	49	0.97	0.7	1.8	1.5	4 μ f/450V	63	2.9	0.000215
MY562-4	0.09	0.78	1390	51	0.99	0.7	1.65	8	6 μ f/450V	63	3.4	0.000240
MY631-4	0.12	0.97	1400	55	0.98	0.7	1.75	2.5	8 μ f/450V	65	3.4	0.000298
MY632-4	0.18	1.35	1380	59	0.98	0.6	1.65	3.5	10 μ f/450V	65	4.4	0.000373
MY633-4	0.25	1.77	1380	62.5	0.98	0.55	1.6	5	12 μ f/450V	65	5	0.000448
MY710-4	0.18	1.33	1420	60.5	0.97	0.48	1.65	4	10 μ f/450V	65	5.2	0.000538
MY711-4	0.25	1.70	1410	64.5	0.99	0.5	1.6	5	12 μ f/450V	65	5.8	0.000641
MY712-4	0.37	2.43	1410	67.5	0.98	0.44	1.65	7.5	16 μ f/450V	68	6.9	0.000846
MY713-4	0.55	3.45	1385	70	0.99	0.45	1.47	10.5	20 μ f/450V	70	8.3	0.001052
MY800-4	0.37	2.38	1420	69	0.98	0.45	1.8	9	16 μ f/450V	68	8	0.001285
MY801-4	0.55	3.34	1420	73	0.98	0.45	1.78	13	20 μ f/450V	70	9.5	0.001618
MY802-4	0.75	4.42	1420	74.5	0.99	0.44	1.71	16.5	30 μ f/450V	70	10.5	0.002061
MY90S-4	1.1	6.30	1420	77.5	0.98	0.35	1.75	24	40 μ f/450V	73	13.1	0.002500
MY90L-4	1.5	8.55	1420	79.5	0.96	0.33	1.8	36	45 μ f/450V	75	16.5	0.003240
MY100L1-4	2.2	13.0	1450	79	0.93	0.31	1.8	65	70 μ f/450V	78	23.4	0.008045
MY100L2-4	3	16.8	1450	81	0.96	0.31	1.8	91	90 μ f/450V	78	28.7	0.010853
MY631-6	0.09	0.9	900	44.5	0.97	0.38	1.53	2	8 μ f/450V	63	4.4	0.000550
MY632-6	0.12	1.1	875	47.5	0.98	0.25	1.23	2	11 μ f/450V	63	5.5	0.000649
MY711-6	0.18	1.5	920	55.5	0.97	0.5	1.5	3.5	11 μ f/450V	68	6.2	0.000585
MY712-6	0.25	2.0	930	56	0.98	0.45	1.5	5	16 μ f/450V	68	7.3	0.001151
MY801-6	0.37	2.5	960	66	0.96	0.35	1.6	8.5	20 μ f/450V	68	9	0.002232
MY802-6	0.55	3.5	955	70.5	0.97	0.35	1.6	12	25 μ f/450V	70	11.6	0.002903
MY90S-6	0.75	5.0	905	67	0.98	0.35	1.6	13	35 μ f/450V	70	13.5	0.003523
MY90L-6	1.1	6.6	940	74	0.98	0.35	1.5	25	50 μ f/450V	70	16.2	0.004957

T echnical Data (at 230V/50Hz)

MODEL	Power (KW)	Current (A)	Speed (r/min)	Eff (%)	Power Factor (cos ϕ)	T_s/T_n (Times)	T_{max}/T_n (Times)	Starting Current(A)	Run Capacitor (μ f/V)	Noise dB(A)	W.t. (Kg)	Inertia $kg \cdot m^2$
MYT631-2	0.18	1.29	2750	62	0.98	0.7	1.8	4	10 μ f/450V	70	3.8	0.000141
MYT632-2	0.25	1.71	2750	65	0.98	0.65	1.75	5.5	12 μ f/450V	70	4.5	0.000168
MYT633-2	0.37	2.39	2740	68	0.99	0.7	1.8	8	16 μ f/450V	75	5	0.000216
MYT711-2	0.37	2.59	2640	66	0.94	0.7	1.65	8	14 μ f/450V	75	6	0.000356
MYT712-2	0.55	3.52	2760	71.5	0.95	0.7	1.8	14	20 μ f/450V	75	7.4	0.000489
MYT801-2	0.75	4.87	2760	69	0.97	0.7	1.8	17.5	25 μ f/450V	75	9	0.001007
MYT802-2	1.1	6.53	2780	74	0.99	0.7	1.8	25	40 μ f/450V	78	11.6	0.001238
MYT90S-2	1.5	8.56	2755	77	0.99	0.65	1.8	31	50 μ f/450V	80	13	0.001665
MYT90L-2	2.2	12.39	2765	78	0.99	0.65	1.8	51	70 μ f/450V	80	17.8	0.002136
MYT90L2-2	3	16.68	2800	79	0.99	0.48	1.8	85	90 μ f/450V	83	22.3	0.002686
MYT100L0-2	2.2	12.68	2825	77	0.98	0.55	1.8	13	70 μ f/450V	80	21	0.004803
MYT100L-2	3	17.11	2765	77	0.99	0.55	1.75	64	90 μ f/450V	83	23.7	0.005383
MYT561-4	0.06	0.55	1410	49	0.97	0.7	1.8	1.5	4 μ f/450V	63	3.3	0.000215
MYT562-4	0.09	0.78	1390	51	0.99	0.7	1.65	8	6 μ f/450V	63	3.6	0.000240
MYT631-4	0.12	0.97	1400	55	0.98	0.7	1.75	2.5	8 μ f/450V	65	4.4	0.000298
MYT632-4	0.18	1.35	1380	59	0.98	0.6	1.65	3.5	10 μ f/450V	65	5.1	0.000373
MYT633-4	0.25	1.76	1380	62.5	0.99	0.63	1.57	5	14 μ f/450V	65	5.4	0.000448
MYT711-4	0.25	1.81	1310	60.5	0.99	0.7	1.55	4.5	14 μ f/450V	65	6	0.000692
MYT712-4	0.37	2.48	1325	65.5	0.99	0.7	1.52	6.5	20 μ f/450V	68	7.1	0.000898
MYT800-4	0.37	2.63	1350	63	0.97	0.7	1.7	7.5	16 μ f/450V	68	8.5	0.001396
MYT801-4	0.55	3.70	1330	66	0.98	0.7	1.57	10.5	25 μ f/450V	73	10	0.001728
MYT802-4	0.75	4.82	1355	69	0.98	0.67	1.65	16	35 μ f/450V	73	11.4	0.002393
MYT90S-4	1.1	6.94	1355	72.5	0.95	0.68	1.8	22	40 μ f/450V	75	14.3	0.002743
MYT90L-4	1.5	9.28	1360	74	0.95	0.68	1.8	32	50 μ f/450V	78	17.3	0.003483
MYT100L1-4	2.2	12.64	1390	78	0.97	0.48	1.75	49	70 μ f/450V	80	24.5	0.008665
MYT100L2-4	3	16.57	1380	79.5	0.99	0.45	1.6	61	90 μ f/450V	80	32	0.010853
MYT711-6	0.18	1.52	930	52	0.99	0.65	1.7	3.5	14 μ f/450V	68	6.2	0.000585
MYT712-6	0.25	2.12	925	54	0.95	0.58	1.7	5	16 μ f/450V	68	7.3	0.001151
MYT801-6	0.37	2.63	925	63	0.97	0.67	1.7	7.5	20 μ f/450V	68	9	0.002232
MYT802-6	0.55	3.71	915	66.5	0.97	0.63	1.7	11	30 μ f/450V	70	11.6	0.002903
MYT90S-6	0.75	4.93	890	67.5	0.98	0.65	1.5	12	40 μ f/450V	70	13.5	0.003523
MYT90L-6	1.1	7.15	905	69	0.97	0.55	1.7	21	50 μ f/450V	70	16.2	0.004957

* Note: MYT is high starting torque series single phase capacitor-run motors

MC Series

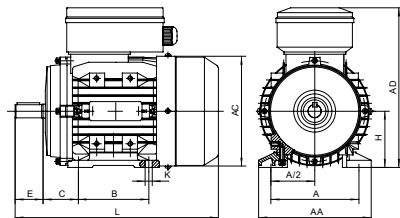
Single-Phase Capacitor Start Asynchronous Motors

Aluminum Housing

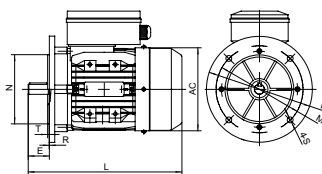
MC Series aluminum housing single-phase capacitor-start asynchronous motors, with latest design in entirety, are made of selected quality materials and conform to the IEC standard.

MC motors have good performance, safely and reliable operation, nice appearance, and can be maintained very conveniently, while with low noises, little vibration and at the same time of light weight and simple construction. High starting torque, perfect starting performance, generally the multiple of the starting torque can up to 3.0 times.

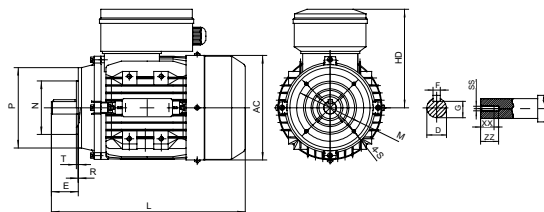
These series motors are suitable for the occasion where big starting torque and small starting current, such as air-compressors, pumps, refrigerators, medical apparatus, and many other machines needing full-load start.



IM B3



IM B5



IM B14

Overall & Installation Dimensions

FRAME	Mounting Dimensions									Overall Dimensions					Shaft End Screw Dimensions		
	H	A	B	C	D	E	F	G	K	AA	AD	HD	AC	L	SS	XX	ZZ
MC 63	63	100	80	40	Φ11	23	4	8.5	7×10	120	181	118	Φ121	217	M4	10	14
MC 71	71	112	90	45	Φ14	30	5	11	7×10	132	196	125	Φ139	255	M5	12	17
MC 80	80	125	100	50	Φ19	40	6	15.5	10×13	160	226	146	Φ156	290	M6	16	21
MC 90S	90	140	100	56	Φ24	50	8	20	10×13	175	243	153	Φ174	335	M8	19	25
MC 90L	90	140	125	56	Φ24	50	8	20	10×13	175	243	153	Φ174	365	M8	19	25
MC 100L	100	160	140	63	Φ28	60	8	24	12×15	198	265	165	Φ196	403(421)	M10	22	30
MC 112M	112	190	140	70	Φ28	60	8	24	12×15	220	297	185	Φ221	431	M10	22	30

FRAME	KK	B5						B14						B5R						B14B					
		N	M	P	S	T	R	N	M	P	S	T	R	N	M	P	T	S	R	N	M	P	T	S	R
MC 63	1-M20*1.5	Φ95	Φ115	Φ140	Φ10	3	0	Φ60	Φ75	Φ90	M5	2.5	0												
MC 71	1-M20*1.5	Φ110	Φ130	Φ160	Φ10	3.5	0	Φ70	Φ85	Φ105	M6	2.5	0	Φ95	Φ115	Φ140	3	Φ10	0	Φ95	Φ115	Φ140	3	M8	0
MC 80	1-M20*1.5	Φ130	Φ165	Φ200	Φ12	3.5	0	Φ80	Φ100	Φ120	M6	3	0	Φ110	Φ130	Φ160	3.5	Φ10	0	Φ110	Φ130	Φ160	3.5	M8	0
MC 90	1-M20*1.5	Φ130	Φ165	Φ200	Φ12	3.5	0	Φ95	Φ115	Φ140	M8	3	0	Φ110	Φ130	Φ160	3.5	Φ10	0	Φ110	Φ130	Φ160	3.5	M8	0
MC 100	1-M20*1.5	Φ180	Φ215	Φ250	Φ15	4	0	Φ110	Φ130	Φ160	M8	3.5	0	Φ130	Φ165	Φ200	3.5	Φ12	0	Φ130	Φ165	Φ200	3.5	M10	0
MC 112	1-M25*1.5	Φ180	Φ215	Φ250	Φ15	4	0	Φ110	Φ130	Φ160	M8	3.5	0	Φ130	Φ165	Φ200	3.5	Φ12	0	Φ130	Φ165	Φ200	3.5	M10	0

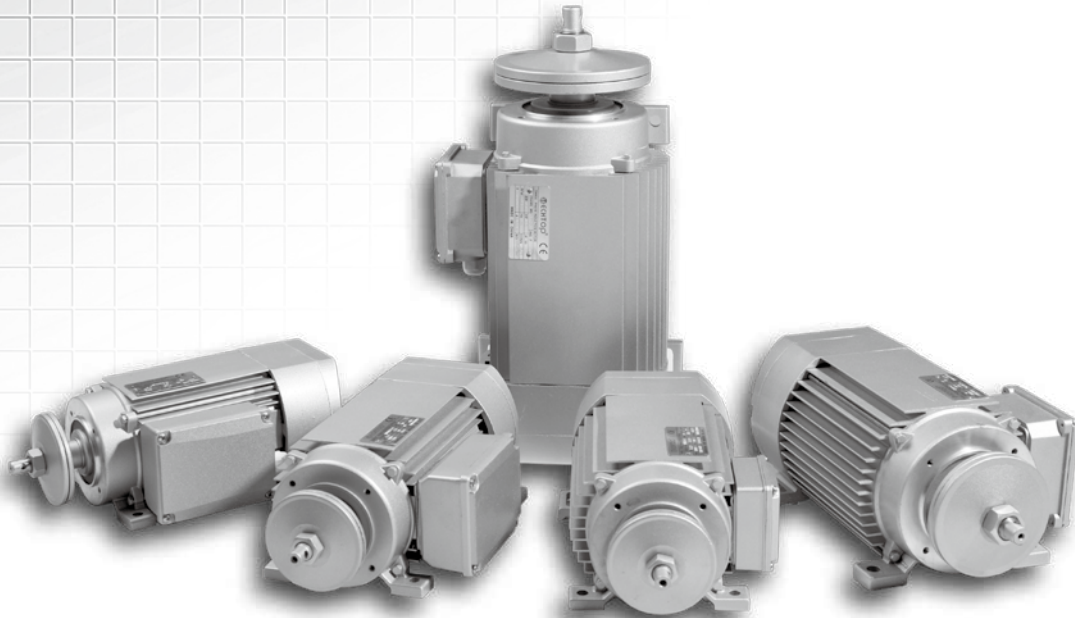


Technical Data (at 230V/50Hz)

MODEL	Power (KW)	Current (A)	Speed (r/min)	Eff (%)	Power factor (cos ϕ)	T _{start} /T _n (Times)	T _{max} /T _n (Times)	Starting Current (A)	Start Capacitor (μ F/V)	Noise dB(A)	W.T (kg)	Inertia kg*m ²
MC631-2	0.09	1.22	2650	44	0.73	3	1.6	5	30 μ F/250V	67	3.66	0.000131
MC632-2	0.12	1.36	2730	52	0.74	3	1.8	6	40 μ F/250V	67	4.18	0.000157
MC711-2	0.18	1.86	2750	60	0.70	3.0	2.2	12	75 μ F/250V	70	5.8	0.000330
MC712-2	0.25	2.43	2780	62	0.72	3.0	2.2	15	75 μ F/250V	70	6.75	0.000410
MC801-2	0.37	3.46	2800	62	0.75	2.8	2.2	21	100 μ F/250V	75	9	0.000779
MC802-2	0.55	4.78	2800	65	0.77	2.8	2.2	29	150 μ F/250V	75	10.3	0.000936
MC90S-2	0.75	6.15	2810	68	0.78	2.5	2.2	37	200 μ F/300V	75	13	0.001366
MC90L-2	1.1	8.76	2820	70	0.78	2.5	2.2	60	250 μ F/300V	78	16	0.001838
MC100L1-2	1.5	11.5	2830	72	0.79	2.5	2.0	80	300 μ F/300V	83	22	0.004126
MC100L2-2	2.2	16.6	2840	73	0.79	2.2	2.0	120	400 μ F/300V	83	26	0.005672
MC112M-2	3.0	22.0	2850	74	0.8	2.2	1.9	150	600 μ F/300V	87	35.3	0.007972
MC631-4	0.06	1.22	1400	39	0.55	3	2	5	30 μ F/250V	63	4.1	0.000292
MC632-4	0.09	1.80	1390	39.5	0.55	3	2	6	30 μ F/250V	63	4.5	0.000340
MC711-4	0.12	1.86	1360	50	0.56	3.0	2.2	9	50 μ F/250V	65	5.6	0.000558
MC712-4	0.18	2.46	1380	53	0.6	2.8	2.2	12	75 μ F/250V	65	6.7	0.000729
MC801-4	0.25	3.07	1390	58	0.61	2.8	2.2	15	100 μ F/250V	65	9.6	0.001379
MC802-4	0.37	4.18	1400	62	0.62	2.5	2.2	21	100 μ F/250V	70	10.4	0.001563
MC90S-4	0.55	5.49	1400	66	0.66	2.5	2.0	29	150 μ F/250V	70	13	0.002266
MC90L-4	0.75	6.85	1410	68	0.7	2.5	2.0	37	150 μ F/250V	70	15	0.003009
MC100L1-4	1.1	9.49	1420	71	0.71	2.5	2.0	60	250 μ F/300V	73	20.7	0.006727
MC100L2-4	1.5	12.4	1430	73	0.72	2.5	2.0	80	400 μ F/300V	78	24.5	0.009225
MC112M-4	2.2	17.7	1440	74	0.73	2.2	1.9	120	600 μ F/300V	78	33.8	0.013404

MSC/MYC Series

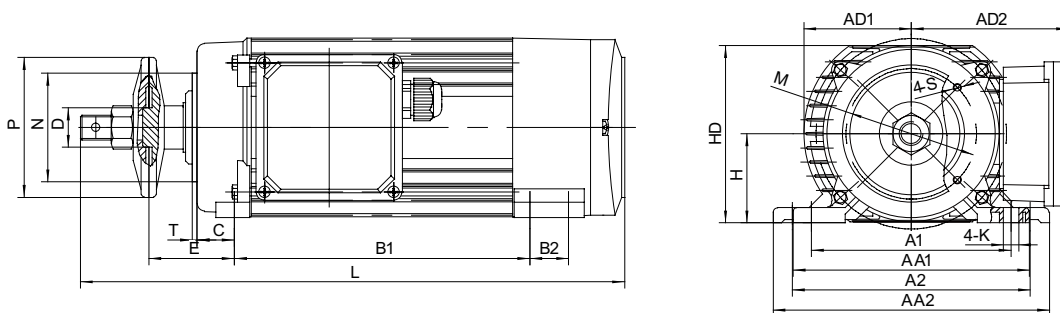
Three/Single-Phase Aluminum Housing Saw Motors



MSC/MYC Series Motors Technical Data

TYPE	POWER(KW)	PHASE	V	HZ	Amp.	Eff.	Cos ϕ	Rpm	T_s/T_n	T_m/T_n	I_s/I_n	Duty	Capacitor	Inertia kg·m ²
MYC58A2	1.1	1	230	50	7.18	68	0.98	2770	0.35	1.7	5	S6-40%	25uF/450V	0.000697
MYC58B2	1.5	1	230	50	9.51	70	0.98	2790	0.35	1.7	5	S6-40%	30uF/450V	0.000900
MYC58C2	1.8	1	230	50	11.1	72	0.98	2790	0.32	1.7	5	S6-40%	30uF/450V	0.001031
MYC63B2	2.2	1	230	50	13.2	74	0.98	2800	0.32	1.7	5	S6-40%	40uF/450V	0.001220
MSC58A2	1.5	3	400	50	3.41	77.5	0.82	2750	3	3	6	S6-40%		0.000762
MSC58B2	2.2	3	400	50	4.76	78.5	0.85	2750	3	3	6	S6-40%		0.001031
MSC63A2	2.2	3	400	50	4.73	79	0.85	2800	2.4	2.2	6	S6-40%		0.001276
MSC63B2	3	3	400	50	6.37	80	0.85	2820	2.8	2.4	6.5	S6-40%		0.001679
MSC74A2	4	3	400	50	8.19	82	0.86	2850	3	3	7	S6-40%		0.003118
MSC81A2	5.5	3	400	50	10.5	85	0.89	2880	3	3	9	S1		0.005452
MSC81B2	7.5	3	400	50	14.1	86	0.89	2880	3	3	9	S1		0.007185
MSC93A2	5.5	3	400	50	10.1	87	0.9	2890	3	3	9	S1		0.004694
MSC93B2	7.5	3	400	50	13.6	87.5	0.91	2890	3	3	9	S1		0.005935

MSC/MYC Series Three/Single-Phase Aluminum Housing Saw Motors



MSC/MYC Series Motors Overall & Installation Dimensions

Model	H	D	P	N	M	S	A1	A2	B1	B2	C	E	T	K	AA1	AA2	HD	AD1	AD2	L
MYC58A2	58	25.4	90	70	85	M6	130	155	165	25	24	55	3	10	154	180	116	70	113	325
MYC58B2	58	25.4	90	70	85	M6	130	155	190	25	24	55	3	10	154	180	116	70	113	350
MYC58C2	58	25.4	90	70	85	M6	130	155	190	25	24	55	3	10	154	180	116	70	113	350
MYC63B2	63	25.4	90	80	100	M6	130	155	190	28	24	55	3	10	154	180	126	77	118	355
MSC58A2	58	25.4	90	70	85	M6	130	155	165	25	24	55	3	10	154	180	116	70	103	325
MSC58B2	58	25.4	90	70	85	M6	130	155	190	25	24	55	3	10	154	180	116	70	103	350
MSC63A2	63	25.4	90	80	100	M6	130	155	165	28	24	55	3	10	154	180	126	77	108	330
MSC63B2	63	25.4	90	80	100	M6	130	155	190	28	24	55	3	10	154	180	126	77	108	355
MSC74A2	74	30	110	95	115	M6	155	155	190	25	24	55	3	12	180	180	147	87	125	370
MSC81A2	81	40	158	110	130	M8	160	190	254	20	25	64	3.5	12	190	225	162	99	133	462
MSC81B2	81	40	158	110	130	M8	160	190	318	20	25	64	3.5	12	190	225	162	99	133	526
MSC93A2	93	40	158	110	130	M8	190	190	229	25	25	64	3.5	14	225	225	184	108	143	440
MSC93B2	93	40	158	110	130	M8	190	190	254	25	25	64	3.5	14	225	225	184	108	143	465

* Note: The size "L" With brake type is 30mm more

MSV/MYV Series

Three/Single-Phase Aluminum Housing Pad Mount Motors



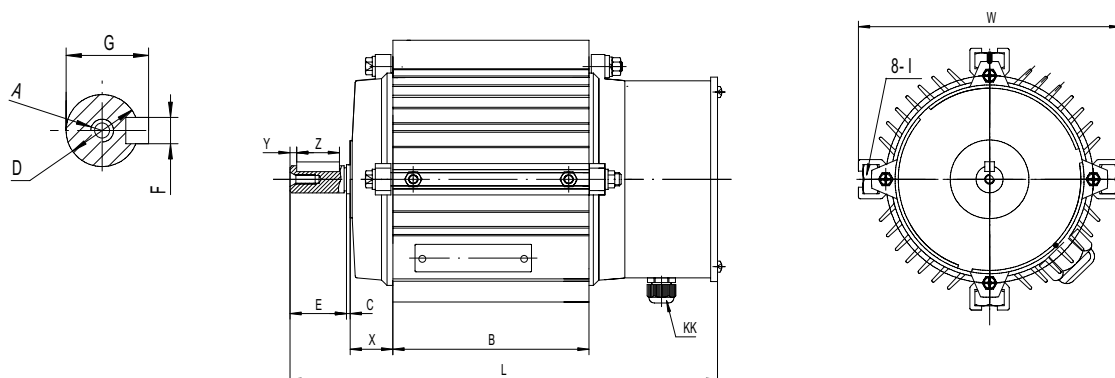
MYV Series Technical Data (at 230V/50Hz)

MODEL	Power	Current	Speed	Eff	Power	Tstart/Tn	Tmax/Tn	Starting Current	Run Capacitor	Noise	W.t.	Inertia
	(KW)	(A)	(r/min)	(%)	factor (cos ϕ)	(Times)	(Times)	(A)	(μ f/V)	dB(A)	(Kg)	kg*m ²
MYV711-2	0.37	2.54	2780	68	0.93	0.5	1.64	9.5	12 μ f/450V	75	5.6	0.000330
MYV712-2	0.55	3.45	2800	73	0.95	0.5	1.8	14.5	16 μ f/450V	75	6.95	0.000356
MYV713-2	0.75	4.45	2840	75.5	0.97	0.48	1.8	20	25 μ f/450V	75	8.15	0.000436
MYV801-2	0.75	4.51	2810	73	0.99	0.45	1.75	19	25 μ f/450V	75	8.5	0.000789
MYV802-2	1.1	6.30	2810	77.5	0.98	0.45	1.8	30	35 μ f/450V	78	11	0.001174
MYV803-2	1.5	8.48	2820	78.5	0.98	0.34	1.68	40	40 μ f/450V	80	12.75	0.001430
MYV90S-2	1.5	8.45	2820	78	0.99	0.33	1.72	35	45 μ f/450V	80	13.7	0.001512
MYV90L-2	2.2	12.08	2850	80	0.99	0.29	1.8	61	60 μ f/450V	80	16.7	0.001983
MYV100L-2	3	16.7	2860	79	0.99	0.35	1.8	73	80 μ f/450V	83	23.1	0.004803
MYV710-4	0.18	1.33	1420	60.5	0.97	0.48	1.65	4	10 μ f/450V	65	5.2	0.000538
MYV711-4	0.25	1.70	1410	64.5	0.99	0.5	1.6	5	12 μ f/450V	65	5.8	0.000641
MYV712-4	0.37	2.43	1410	67.5	0.98	0.44	1.65	7.5	16 μ f/450V	68	6.9	0.000846
MYV713-4	0.55	3.45	1385	70	0.99	0.45	1.47	10.5	20 μ f/450V	70	8.25	0.001052
MYV800-4	0.37	2.38	1420	69	0.98	0.45	1.8	9	16 μ f/450V	68	8	0.001285
MYV801-4	0.55	3.34	1420	73	0.98	0.45	1.78	13	20 μ f/450V	70	9.55	0.001618
MYV802-4	0.75	4.42	1420	74.5	0.99	0.44	1.71	16.5	30 μ f/450V	70	10.45	0.002061
MYV90S-4	1.1	6.30	1420	77.5	0.98	0.35	1.75	24	40 μ f/450V	73	13.1	0.002500
MYV90L-4	1.5	8.55	1420	79.5	0.96	0.33	1.8	36	45 μ f/450V	75	16.45	0.003240
MYV100L1-4	2.2	13.0	1450	79	0.93	0.31	1.8	65	70 μ f/450V	78	22.8	0.008045
MYV100L2-4	3	16.8	1450	81	0.96	0.31	1.8	91	90 μ f/450V	78	29.2	0.010853
MYV711-6	0.18	1.5	920	55.5	0.97	0.5	1.5	3.5	11 μ f/450V	68	6.3	0.000585
MYV712-6	0.25	2.0	930	56	0.98	0.45	1.5	5	16 μ f/450V	68	7.6	0.001151
MYV801-6	0.37	2.5	960	66	0.96	0.35	1.6	8.5	20 μ f/450V	68	9	0.002232
MYV802-6	0.55	3.5	955	70.5	0.97	0.35	1.6	12	25 μ f/450V	70	11.6	0.002903
MYV90S-6	0.75	5.0	905	67	0.98	0.35	1.6	13	35 μ f/450V	70	13.5	0.003523
MYV90L-6	1.1	6.6	940	74	0.98	0.35	1.5	25	50 μ f/450V	70	16.2	0.004957

MSV Series Technical Data at 50Hz

Model	Power (kw)	Current (A)			Current (A)			Current (A)			Speed (r/min)	Eff (%)	Power factor (cos φ)	Tst/Tn (Times)	Tmax/Tn (Times)	Tmin/Tn (Times)	Ist/In (Times)	Noise dB(A)	W.T (kg)	Inertia kg*m²
		220V	380V	660V	230V	400V	690V	240V	415V	720V										
MSV711-2	0.37	1.70	0.99	0.57	1.63	0.94	0.54	1.56	0.90	0.52	2830	71.3	0.8	2.8	2.9	2	5.9	64	5.20	0.000314
MSV712-2	0.55	2.52	1.46	0.84	2.41	1.39	0.80	2.31	1.34	0.77	2815	71.6	0.8	2.7	2.7	1.8	6	64	6.00	0.000384
MSV713-2	0.75	3.25	1.88	1.08	3.11	1.79	1.04	2.98	1.72	0.99	2820	73.8	0.82	3.0	3.0	2.0	6.6	65	7.00	0.000476
MSV800-2	0.55	2.38	1.38	0.79	2.28	1.31	0.76	2.18	1.26	0.73	2810	73.1	0.83	2.7	2.5	1.9	5.3	64	7.30	0.000752
MSV801-2	0.75	3.15	1.83	1.05	3.02	1.73	1.01	2.89	1.67	0.96	2830	75.2	0.83	3	2.8	2	6.2	67	8.70	0.000880
MSV802-2	1.1	4.40	2.55	1.47	4.21	2.42	1.40	4.04	2.33	1.35	2840	79	0.83	2.6	3.1	2.6	6.1	67	10.00	0.001072
MSV803-2	1.5	5.70	3.30	1.90	5.46	3.14	1.82	5.23	3.02	1.74	2820	81.2	0.85	3.2	3	2.5	7.2	70	11.20	0.001329
MSV90S-2	1.5	5.73	3.32	1.91	5.48	3.15	1.83	5.25	3.04	1.75	2850	80.8	0.85	2.8	3.3	2.6	7.7	72	12.00	0.001579
MSV90M-2	1.85	7.04	4.08	2.35	6.73	3.87	2.24	6.45	3.73	2.15	2850	82.1	0.84	4.2	3.6	2.9	7.8	72	13.30	0.001846
MSV90L1-2	2.2	8.19	4.74	2.73	7.84	4.51	2.61	7.51	4.34	2.50	2860	82.9	0.85	3.7	3.9	3.3	8.8	72	14.50	0.002123
MSV90L2-2	3	11.1	6.43	3.70	10.6	6.11	3.54	10.2	5.89	3.39	2830	82.4	0.86	4.4	4.2	3.5	8	74	15.00	0.002491
MSV100L1-2	3	10.9	6.32	3.64	10.4	6.00	3.48	10.0	5.78	3.33	2875	83.9	0.86	2.8	3.2	2	8.1	76	20.00	0.003475
MSV100L2-2	4	13.8	7.99	4.60	13.2	7.59	4.40	12.6	7.31	4.22	2870	85.5	0.89	3.2	3.4	2.2	8.8	77	24.00	0.004247
MSV112M-2	4	13.2	7.63	4.40	12.6	7.25	4.20	12.1	6.99	4.03	2870	85.6	0.93	2.6	2.85	1.75	8.1	77	26.00	0.005845
MSV112L-2	5.5	18.0	10.4	6.00	17.2	9.9	5.74	16.5	9.5	5.50	2890	87.1	0.92	3.1	3.3	2	9.4	78	29.30	0.007429
MSV711-4	0.25	1.38	0.80	0.46	1.32	0.76	0.44	1.27	0.73	0.42	1395	65.1	0.73	2	2.15	1.6	4.2	55	5.06	0.000561
MSV712-4	0.37	1.90	1.10	0.63	1.82	1.05	0.61	1.74	1.01	0.58	1390	68.6	0.74	2.25	2.35	1.95	4.6	55	5.96	0.000714
MSV713-4	0.55	2.81	1.63	0.94	2.69	1.54	0.90	2.57	1.49	0.86	1390	71.9	0.72	2.8	2.8	2.4	4.8	57	6.50	0.000920
MSV801-4	0.55	2.74	1.59	0.91	2.62	1.51	0.87	2.51	1.45	0.84	1400	70.9	0.74	2.25	2.55	1.95	4.9	58	8.10	0.001350
MSV802-4	0.75	3.36	1.94	1.12	3.21	1.85	1.07	3.08	1.78	1.03	1390	74.4	0.79	2.5	2.55	2.05	5.4	58	9.10	0.001793
MSV803-4	1.1	4.90	2.84	1.63	4.69	2.69	1.56	4.49	2.60	1.50	1390	74.6	0.79	2.9	2.9	2.4	5.9	60	11.00	0.002236
MSV90S-4	1.1	4.90	2.83	1.63	4.68	2.69	1.56	4.49	2.60	1.50	1400	75.5	0.78	2.9	2.7	2.15	6	61	12.00	0.002443
MSV90L1-4	1.5	6.48	3.75	2.16	6.20	3.56	2.07	5.94	3.44	1.98	1410	79.6	0.76	3.4	3.3	2.7	6.9	61	14.80	0.003152
MSV90L2-4	2.2	9.76	5.65	3.25	9.33	5.37	3.11	8.94	5.17	2.98	1410	78.9	0.75	3.8	2.6	3.2	7.2	63	17.60	0.004002
MSV100L1-4	2.2	8.71	5.05	2.90	8.34	4.79	2.78	7.99	4.62	2.66	1420	82.0	0.81	2.4	2.7	2.15	6.3	64	19.20	0.005977
MSV100L2-4	3	11.5	6.64	3.82	11.0	6.31	3.66	10.5	6.08	3.51	1430	83.7	0.82	2.6	3	2.15	6.8	64	22.50	0.007591
MSV100L3-4	4	15.2	8.80	5.07	14.5	8.36	4.85	13.9	8.06	4.65	1430	84.2	0.82	2.2	2.3	1.5	7	65	27.30	0.009626
MSV112M-4	4	14.9	8.60	4.95	14.2	8.17	4.74	13.6	7.88	4.54	1440	84.7	0.83	2.5	2.9	2.05	7.1	65	29.00	0.012079
MSV112L-4	5.5	20.4	11.8	6.81	19.5	11.2	6.51	18.7	10.8	6.24	1435	85.9	0.82	2.5	2.95	2.2	7.2	68	35.70	0.014229
MSV711-6	0.18	1.11	0.64	0.37	1.06	0.61	0.35	1.02	0.59	0.34	905	63.0	0.67	2.15	2.4	2	3.5	52	5.60	0.000841
MSV712-6	0.25	1.56	0.90	0.52	1.49	0.86	0.50	1.43	0.83	0.48	885	62.6	0.67	2.05	2.3	2.05	3.2	52	6.00	0.000965
MSV713-6	0.37	2.32	1.34	0.77	2.22	1.28	0.74	2.13	1.23	0.71	890	65.4	0.64	2.3	2.5	2.3	3.4	54	6.80	0.001151
MSV801-6	0.37	2.06	1.19	0.69	1.97	1.13	0.66	1.89	1.09	0.63	920	68.1	0.69	1.95	2.25	1.8	3.7	56	8.10	0.001560
MSV802-6	0.55	2.74	1.59	0.91	2.62	1.51	0.87	2.51	1.45	0.84	920	72.5	0.73	2.25	2.45	2.05	4.3	56	9.60	0.002098
MSV803-6	0.75	3.65	2.11	1.22	3.49	2.01	1.16	3.34	1.93	1.11	910	72.9	0.74	2.2	2.4	2.1	4.1	58	10.00	0.002635
MSV90S-6	0.75	3.83	2.22	1.28	3.67	2.11	1.22	3.52	2.03	1.17	920	72.5	0.71	1.8	2.2	1.7	4.1	59	11.30	0.003061
MSV90L1-6	1.1	5.47	3.17	1.82	5.23	3.01	1.74	5.01	2.90	1.67	910	73.5	0.72	1.95	2.25	1.85	4.2	59	14.40	0.004067
MSV90L2-6	1.5	7.12	4.12	2.37	6.81	3.92	2.27	6.53	3.78	2.18	900	74.7	0.74	2.1	2.3	1.9	4.2	60	15.50	0.005147
MSV100L1-6	1.5	6.77	3.92	2.26	6.47	3.72	2.16	6.20	3.59	2.07	935	78.5	0.74	2.05	2.35	1.8	5	61	18.80	0.007913
MSV100L2-6	2.2	9.87	5.71	3.29	9.44	5.43	3.15	9.04	5.23	3.01	950	77	0.76	2.2	2.2	1.3	6	63	19.80	0.011194
MSV112M-6	2.2	9.3	5.38	3.10	8.89	5.11	2.96	8.52	4.93	2.84	925	79.2	0.78	1.9	2.25	1.75	4.7	64	25.00	0.013777
MSV112L-6	3	12.9	7.49	4.31	12.4	7.12	4.13	11.9	6.86	3.95	950	79	0.77	2.2	2.2	1.3	6	64	30.00	0.018246
MSV711-8	0.09	0.97	0.56	0.32	0.93	0.54	0.31	0.89	0.52	0.30	680	44.9	0.54	2.3	2.6	2.2	2.4	50	5.00	0.000717
MSV712-8	0.12	1.15	0.67	0.38	1.10	0.63	0.37	1.06	0.61	0.35	680	51.7	0.53	2.5	2.75	2.5	2.7	50	5.60	0.000841
MSV713-8	0.18	1.51	0.88	0.50	1.45	0.83	0.48	1.39	0.80	0.46	670	55.8	0.56	2.3	2.5	2.4	2.8	52	7.50	0.001026
MSV801-8	0.18	1.24	0.72	0.41	1.18	0.68	0.39	1.13	0.66	0.38	705	64.4	0.59	2.2	2.65	2	3.6	52	9.40	0.002098
MSV802-8	0.25	1.64	0.95	0.55	1.57	0.90	0.52	1.51	0.87	0.50	700	66.3	0.60	2.1	2.5	2.05	3.5	52	10.10	0.002500
MSV90S-8	0.37	2.37	1.37	0.79	2.26	1.30	0.75	2.17	1.25	0.72	690	66.3	0.62	1.55	2	1.5	3.2	56	12.50	0.003061
MSV90L-8	0.55	3.26	1.89	1.09	3.12	1.79	1.04	2.99	1.73	1.00	680	69.0	0.64	1.6	1.95	1.6	3.3	56	15.30	0.004067
MSV100L1-8	0.75	3.88	2.24	1.29	3.71	2.13	1.24	3.55	2.06	1.18	700	75.2	0.68	2.1	2.55	1.95	4.4	59	17.20	0.006043
MSV100L2-8	1.1	5.16	2.99	1.72	4.94	2.84	1.65	4.73	2.74	1.58	685	74.6	0.75	1.8	2.15	1.65	4.1	59	19.50	0.007503
MSV112M-8	1.5	7.24	4.19	2.41	6.93	3.98	2.31	6.64	3.84	2.21	700	78.3	0.69	2.2	2.5	2.1	4.5	61	25.50	0.013491

MSV/MYV Series Motors Overall & Installation Dimensions



MYV Series Motors Overall & Installation Dimensions

Model	Power (KW)	A	B	C	D	E	F	G	Y	Z	W	I	L	X	KK
MYV711-2	0.37	M5×10	120	2	φ14	30	5	16	4.5	20	147	M10	240	22	M16
MYV712-2	0.55		140										260		
MYV713-2	0.75		155										275		
MYV710-4	0.18		120										240		
MYV711-4	0.25		120										240		
MYV712-4	0.37		140										260		
MYV713-4	0.55		155										275		
MYV711-6	0.18		140										260		
MYV712-6	0.25		155										275		
MYV801-2	0.75	M6×12	120	2	φ19	40	6	21.5	7	25	173	M12	260	30	M16
MYV802-2	1.1		140										280		
MYV803-2	1.5		160										300		
MYV800-4	0.37		120										260		
MYV801-4	0.55		140										280		
MYV802-4	0.75		140										280		
MYV801-6	0.37		140										280		
MYV802-6	0.55		160										300		
MYV90S-2	1.5	M6×12	150	8	φ24	50	8	27	4	40	191	M12	320	35	M16
MYV90L1-2	2.2		180										350		
MYV90S0-4	0.75		135										305		
MYV90S-4	1.1		150										320		
MYV90L1-4	1.5		180										350		
MYV90L2-4	2.2		230										400		
MYV90S-6	0.75		150										320		
MYV90L1-6	1.1		195										365		
MYV100L-2	3	M8×16	175	8	φ28	60	8	31	4	50	208	M12	360	27	M20
MYV100L1-4	2.2		175										360		

MSV Series Motors Overall & Installation Dimensions

Model	Power (KW)	A	B	C	D	E	F	G	Y	Z	W	I	L	X	KK
MSV711-2	0.37	M5×10	120	2	φ14	30	5	16	4.5	20	150	M10	240	22	M16
MSV712-2	0.55		120										240		
MSV713-2	0.75		140										260		
MSV711-4	0.25		120										240		
MSV712-4	0.37		120										240		
MSV713-4	0.55		140										260		
MSV711-6	0.18		120										240		
MSV712-6	0.25		140										260		
MSV713-6	0.37		155										275		
MSV801-2	0.75	M6×12	120	2	φ19	40	6	21.5	7	25	177	M12	260	30	M16
MSV802-2	1.1		140										280		
MSV803-2	1.5		160										300		
MSV801-4	0.55		120										260		
MSV802-4	0.75		140										280		
MSV803-4	1.1		160										300		
MSV801-6	0.37		120										260		
MSV802-6	0.55		140										280		
MSV803-6	0.75		160										300		
MSV90S-2	1.5	M6×12	135	8	φ24	50	8	27	4	40	191	M12	305	35	M16
MSV90L1-2	2.2		180										350		
MSV90L2-2	3		195										365		
MSV90S-4	1.1		135										305		
MSV90L1-4	1.5		150										320		
MSV90L2-4	2.2		195										365		
MSV90S-6	0.75		135										305		
MSV90L1-6	1.1		180										350		
MSV90L2-6	1.5		195										365		
MSV100L1-2	3	M8×16	150	8	φ28	60	8	31	4	50	215	M12	335	27	M20
MSV100L2-2	4		175										360		
MSV100L1-4	2.2		150										335		
MSV100L2-4	3		175										360		
MSV100L3-4	4		210										395		
MSV100L1-6	1.5		150										335		
MSV100L2-6	2.2		175										360		
MSV100L1-8	0.75		130										315		
MSV100L2-8	1.1		150										335		
MSV112M-2	4	M8×16	165	4	φ28	60	8	31	4	50	228	M12	337	28	M25
MSV112L-2	5.5		190										362		
MSV112M-4	4		190										362		
MSV112L-4	5.5		220										392		
MSV112M-6	2.2		165										337		
MSV112L-6	3		190										362		
MSV112M-8	1.5		165										337		
MSV112L-8	2.2		190										362		

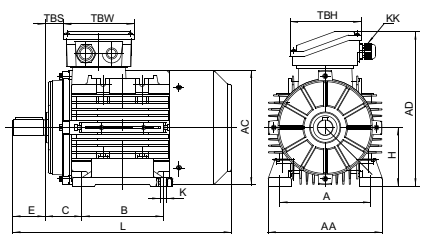
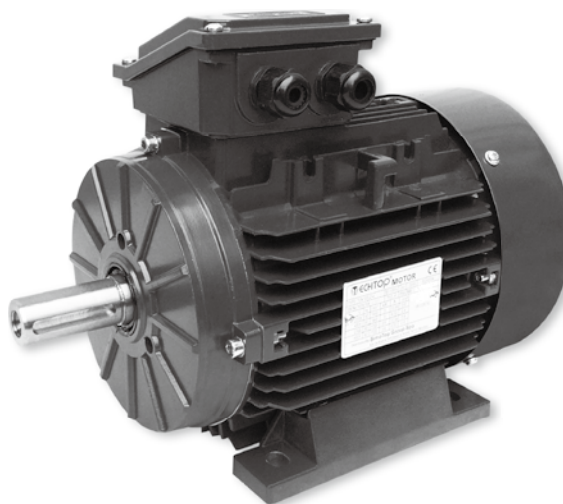
“ECOL” Motors In Aluminum Housing

FEATURES

- Energy savings, high efficiency
- High starting torque, lower starting current
- Versatile and easy to modify design adapts to a variety of applications
- Removable feet
- Option of terminal box location (top, left or right)
- Option of IE2, IE3, MEPS High and Premium Efficiency for IEC standards + NEMA EPACT and Premium Efficiency
- Contained total length is the same as or shorter than the current market standard
- Full use of the magnetization properties of cold rolled silicone steel in which the stator laminations are magnetized evenly to reduce temperature rise of the winding

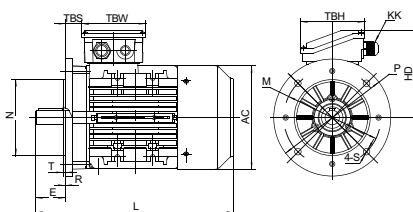
APPLICATIONS

- Pumps
- Waste water treatment plants
- Air compressors, fans
- Gear reducers and power transmission
- Pulp and paper mills
- Steel mill
- Conveyors, elevators
- Should be "Material handling equipment"
- Agricultural application
- Mining equipment
- Hydraulic equipment



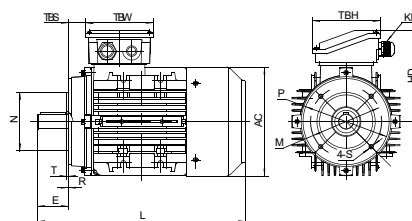
56-160

IM B3



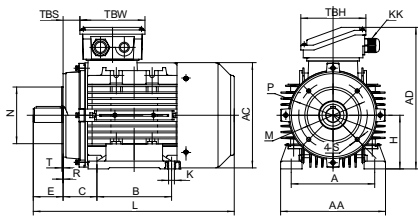
56-160

IM B5



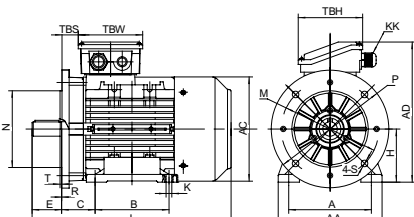
56-160

IM B14



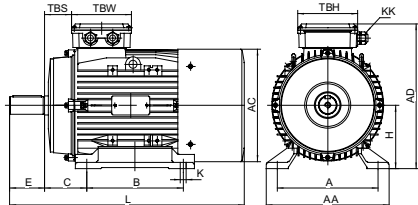
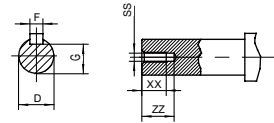
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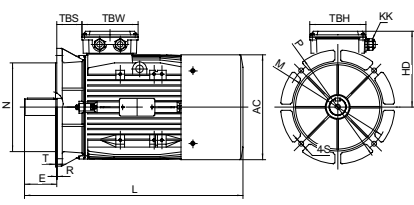
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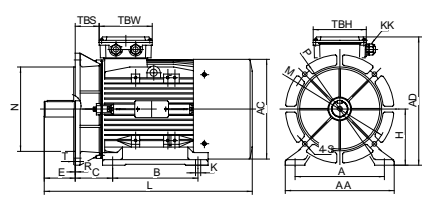
180-200

IM B3



180-200

IM B5



180-200

IM B35

FRAME	Bearings		KK	Foot Mounting				Shaft								General							
	Drive End	Non-Drive End		H	A	B	C	D	E	F	G	K	SS	XX	ZZ	AA	AD	HD	AC	L	TBS	TBW	TBH
TA 56	6201-2RS		1-M16*1.5	56	90	71	36	Φ9	20	3	7.2	6×9	M4	9	12	112	151	95	Φ110	195	16.5	83	83
TA 63	6201-2RS		1-M16*1.5	63	100	80	40	Φ11	23	4	8.5	7×10	M4	10	14	124	170	107	Φ122	215	10	98	98
TA 71	6202-2RS		1-M20*1.5	71	112	90	45	Φ14	30	5	11	7×10	M5	12	17	140	186	115	Φ138	245	16	98	98
TA 80	6204-2RS		1-M20*1.5	80	125	100	50	Φ19	40	6	15.5	10×15	M6	16	21	160	214	134	Φ157	277	26.5	109	109
TA 90S/L	6205-2RS		1-M20*1.5	90	140	100/125	56	Φ24	50	8	20	10×15	M8	19	25	176	235	145	Φ177	313/338	28.5	109	109
TA 100	6206-2RS		2-M20*1.5	100	160	140	63	Φ28	60	8	24	12×16	M10	22	30	200	260	160	Φ199	376	32	118	118
TA 112	6306-2RS	6206-2RS	2-M25*1.5	112	190	140	70	Φ28	60	8	24	12×16	M10	22	30	224	283	171	Φ220	397	33	118	118
TA 132S/M	6308-2RS	6208-2RS	2-M25*1.5	132	216	140/178	89	Φ38	80	10	33	12×16	M12	28	37	260	323	191	Φ261	460/498	36.5	118	118
TA 160M/L	6309-2RS	6209-2RS	2-M32*1.5	160	254	210/254	108	Φ42	110	12	37	15×21	M16	36	45	314	391	231	Φ314	616/660	64	148	148
TA 180	6311-2RS	6211-2RS	2-M32*1.5	180	279	241/279	121	Φ48	110	14	42.5	15×25	M16	36	45	340	440	260	Φ368	730	73	190	190
TA 200	6312-2RS	6212-2RS	2-M40*1.5	200	318	305	133	Φ55	110	16	49	19×29	M20	42	53	390	460	260	Φ368	745	85	190	190

FRAME	B5						B14						B5R						B14B					
	N	M	P	S	T	R	N	M	P	S	T	R	N	M	P	T	S	R	N	M	P	T	S	R
TA 56	Φ80	Φ100	Φ120	Φ7	3	0	Φ50	Φ65	Φ80	M5	2.5	0												
TA 63	Φ95	Φ115	Φ140	Φ10	3	0	Φ60	Φ75	Φ90	M5	2.5	0												
TA 71	Φ110	Φ130	Φ160	Φ10	3.5	0	Φ70	Φ85	Φ105	M6	2.5	0	Φ95	Φ115	Φ140	3	Φ10	0	Φ95	Φ115	Φ140	3	M8	0
TA 80	Φ130	Φ165	Φ200	Φ12	3.5	0	Φ80	Φ100	Φ120	M6	3	0	Φ110	Φ130	Φ160	3.5	Φ10	0	Φ110	Φ130	Φ160	3.5	M8	0
TA 90S/L	Φ130	Φ165	Φ200	Φ12	3.5	0	Φ95	Φ115	Φ140	M8	3	0	Φ110	Φ130	Φ160	3.5	Φ10	0	Φ110	Φ130	Φ160	3.5	M8	0
TA 100	Φ180	Φ215	Φ250	Φ15	4	0	Φ110	Φ130	Φ160	M8	3.5	0	Φ130	Φ165	Φ200	3.5	Φ12	0	Φ130	Φ165	Φ200	3.5	M10	0
TA 112	Φ180	Φ215	Φ250	Φ15	4	0	Φ110	Φ130	Φ160	M8	3.5	0	Φ130	Φ165	Φ200	3.5	Φ12	0	Φ130	Φ165	Φ200	3.5	M10	0
TA 132S/M	Φ230	Φ265	Φ300	Φ15	4	0	Φ130	Φ165	Φ200	M10	3.5	0	Φ180	Φ215	Φ250	4	Φ15	0	Φ180	Φ215	Φ250	4	M12	0
TA 160M/L	Φ250	Φ300	Φ350	Φ19	5	0																		
TA 180	Φ250	Φ300	Φ350	Φ19	5	0																		
TA 200	Φ300	Φ350	Φ400	Φ19	5	0																		

T1A Series IE1 Efficiency Motors Technical Data (at 50Hz)

Model	Power	Current(A)			Current(A)			Current(A)			Speed (r/min)	Eff. (%)	Power factor (cos φ)	T _{start} /T _n (Times)	T _{max} /T _n (Times)	T _{min} /T _n (Times)	I _{st} /I _n (Times)	Noise dB(A)	W.T (kg)	Inertia kg*m ²
		220V	380V	660V	230V	400V	690V	240V	415V	720V										
T1A 561-2	0.09	0.62	0.36	0.21	0.59	0.34	0.20	0.57	0.33	0.19	2710	53	0.72	2.2	2.3	2	4	58	2.8	0.000102
T1A 562-2	0.12	0.72	0.42	0.24	0.68	0.39	0.23	0.66	0.38	0.22	2700	61	0.72	2.2	2.3	2	4	58	3.2	0.000128
T1A 563-2	0.18	1.00	0.58	0.33	0.95	0.55	0.32	0.92	0.53	0.31	2710	63	0.75	2.2	2.4	1.6	6	61	3.5	0.000142
T1A 631-2	0.18	1.00	0.58	0.33	0.95	0.55	0.32	0.92	0.53	0.31	2710	63	0.75	2.2	2.4	1.6	6	61	3.7	0.000150
T1A 632-2	0.25	1.30	0.75	0.43	1.23	0.71	0.41	1.19	0.69	0.40	2710	65	0.78	2.2	2.4	1.6	6	61	4.2	0.000171
T1A 633-2	0.37	1.92	1.11	0.64	1.82	1.05	0.61	1.76	1.02	0.59	2710	65	0.78	2.2	2.4	1.6	6	62	4.7	0.000203
T1A 711-2	0.37	1.76	1.02	0.59	1.67	0.97	0.56	1.61	0.93	0.54	2730	70	0.79	2.2	2.4	1.6	6	64	5.34	0.000314
T1A 712-2	0.55	2.58	1.49	0.86	2.45	1.42	0.82	2.36	1.36	0.79	2760	71	0.79	2.2	2.4	1.6	6	64	6.14	0.000384
T1A 713-2	0.75	3.34	1.93	1.11	3.18	1.83	1.06	3.06	1.77	1.02	2730	72	0.82	2.2	2.4	1.5	6	65	7.1	0.000475
T1A 801-2	0.75	3.44	1.98	1.15	3.26	1.88	1.09	3.15	1.82	1.05	2860	69.2	0.83	2.1	2.5	1.5	5.7	67	8.15	0.000896
T1A 802-2	1.1	4.41	2.55	1.47	4.19	2.42	1.40	4.04	2.33	1.35	2870	79	0.83	2.6	2.8	1.8	6.5	67	9.7	0.001124
T1A 803-2	1.5	5.87	3.39	1.96	5.58	3.22	1.86	5.38	3.10	1.79	2870	81	0.83	2.7	2.8	1.8	6.8	70	11.2	0.001351
T1A 90S-2	1.5	5.94	3.43	1.98	5.65	3.26	1.88	5.44	3.14	1.81	2880	80	0.83	2.3	2.8	1.4	6.6	72	12.3	0.001856
T1A 90L1-2	2.2	8.25	4.77	2.75	7.84	4.53	2.61	7.56	4.36	2.52	2880	83.5	0.84	2.6	2.7	1.8	7.1	72	14.9	0.002306
T1A 90L2-2	3	10.8	6.24	3.60	10.3	5.92	3.42	9.89	5.71	3.30	2900	86	0.85	2.9	3	1.9	8.1	74	17.4	0.002966
T1A 100L1-2	3	11.3	6.54	3.77	10.8	6.21	3.59	10.4	5.99	3.46	2900	83	0.84	2.7	3.2	2.1	7.7	76	20.1	0.003776
T1A 100L2-2	4	15.0	8.67	5.00	14.3	8.23	4.75	13.7	7.93	4.58	2890	84.5	0.83	3.1	3.6	2.8	8.1	77	23	0.004664
T1A 100L3-2	5.5	18.7	10.8	6.23	17.8	10.25	5.92	17.1	9.88	5.70	2900	88	0.88	3.3	3.6	2.5	10.1	78	26	0.005907
T1A 112M1-2	4	14.2	8.2	4.75	13.5	7.81	4.51	13.0	7.53	4.34	2910	85	0.87	2.8	3.6	1.7	9.2	77	26.3	0.006311
T1A 112M2-2	5.5	19.0	11.0	6.34	18.1	10.4	6.02	17.4	10.1	5.80	2900	86.5	0.88	3	3.8	2.2	9.8	78	31.2	0.007796
T1A 112M3-2	7.5	25.8	14.9	8.59	24.5	14.1	8.16	23.6	13.6	7.87	2910	88	0.87	3.8	4.2	2.7	10.3	80	37	0.009833
T1A 132S1-2	5.5	19.7	11.4	6.57	18.7	10.8	6.24	18.0	10.4	6.02	2890	84.4	0.87	2.2	2.8	2.2	6.8	80	37.6	0.012058
T1A 132S2-2	7.5	25.8	14.9	8.59	24.5	14.1	8.16	23.6	13.6	7.87	2890	88	0.87	2.7	3.2	2.5	8.2	80	43	0.015212
T1A 132M1-2	9.2	30.6	17.6	10.2	29.0	16.8	9.68	28.0	16.2	9.33	2910	88	0.9	3.1	3.8	1.7	9.7	81	48.4	0.017834
T1A 132M2-2	11	36.5	21.1	12.2	34.7	20.0	11.6	33.5	19.3	11.2	2920	89	0.89	3.3	4	1.8	10.7	83	54.2	0.020357
T1A 132M3-2	15	50.4	29.1	16.8	47.9	27.7	16.0	46.2	26.7	15.4	2940	91	0.86	4	4.5	2.5	14	86	72	0.028557
T1A 160M1-2	11	38.3	22.1	12.8	36.4	21.0	12.1	35.1	20.2	11.7	2940	90	0.84	2.6	3.1	1.5	7.9	86	72	0.044380
T1A 160M2-2	15	51.4	29.7	17.1	48.9	28.2	16.3	47.1	27.2	15.7	2950	90.3	0.85	2.8	3.3	1.4	8.6	86	82	0.055805
T1A 160L1-2	18.5	62.9	36.3	21.0	59.8	34.5	19.9	57.6	33.3	19.2	2950	91	0.85	3	3.4	1.6	9.3	86	94.1	0.065593
T1A 160L2-2	22	73.7	42.6	24.6	70.0	40.4	23.4	67.5	39.0	22.5	2950	91.3	0.86	3.2	3.5	1.7	9.9	91	104.5	0.077018
T1A 561-4	0.06	0.56	0.33	0.19	0.54	0.31	0.18	0.52	0.30	0.17	1360	50	0.56	2.3	2.4	2	4	50	2.9	0.000190
T1A 562-4	0.09	0.77	0.45	0.26	0.73	0.42	0.24	0.71	0.41	0.24	1360	52	0.59	2.3	2.4	2	4	50	3.3	0.000240
T1A 563-4	0.12	0.95	0.55	0.32	0.90	0.52	0.30	0.87	0.50	0.29	1360	52	0.64	2.2	2.4	2	4	52	3.7	0.000265
T1A 631-4	0.12	0.95	0.55	0.32	0.90	0.52	0.30	0.87	0.50	0.29	1360	52	0.64	2.2	2.4	2	4	52	3.7	0.000273
T1A 632-4	0.18	1.28	0.74	0.43	1.21	0.70	0.40	1.17	0.68	0.39	1310	57	0.65	2.2	2.4	2	4	52	4.4	0.000338
T1A 633-4	0.25	1.66	0.96	0.55	1.58	0.91	0.53	1.52	0.88	0.51	1340	60	0.66	2.2	2.2	2	4	54	5	0.000408
T1A 711-4	0.25	1.52	0.88	0.51	1.45	0.84	0.48	1.39	0.81	0.46	1350	60	0.72	2.2	2.4	1.7	6	55	5.06	0.000561
T1A 712-4	0.37	2.02	1.17	0.67	1.92	1.11	0.64	1.85	1.07	0.62	1370	65	0.74	2.2	2.4	1.7	6	55	5.96	0.000714
T1A 713-4	0.55	2.92	1.69	0.97	2.78	1.60	0.93	2.68	1.55	0.89	1380	66	0.75	2.2	2.4	1.7	6	57	7.06	0.000919
T1A 801-4	0.55	2.64	1.53	0.88	2.51	1.45	0.84	2.42	1.40	0.81	1420	73	0.75	2	2.3	1.6	4.8	57	8.3	0.001453
T1A 802-4	0.75	3.39	1.96	1.13	3.22	1.86	1.08	3.11	1.79	1.04	1410	76.5	0.76	2	2.4	1.7	5	58	9.8	0.001690
T1A 803-4	1.1	4.91	2.84	1.64	4.67	2.70	1.56	4.50	2.60	1.50	1390	77.5	0.76	2.3	2.4	2	5	61	11.2	0.002166
T1A 90S-4	1.1	4.88	2.82	1.63	4.64	2.68	1.55	4.47	2.58	1.49	1400	78	0.76	2.1	2.3	1.9	5	61	12.3	0.002675
T1A 90L1-4	1.5	6.25	3.61	2.08	5.94	3.43	1.98	5.72	3.30	1.91	1410	81	0.78	2.6	2.4	2.1	5.7	61	15.1	0.003519
T1A 90L2-4	2.2	8.72	5.03	2.91	8.28	4.78	2.76	7.98	4.61	2.66	1420	83	0.8	2.7	2.3	2.1	6.2	64	17.78	0.004685
T1A 100L1-4	2.2	9.42	5.44	3.14	8.95	5.16	2.98	8.62	4.98	2.87	1430	80.9	0.76	2.2	2.8	1.9	6	64	20	0.006775
T1A 100L2-4	3	11.4	6.58	3.80	10.8	6.25	3.61	10.4	6.02	3.48	1430	84.5	0.82	2.5	2.8	2.1	6.7	64	24	0.008424
T1A 100L3-4	4	16.1	9.28	5.36	15.3	8.81	5.09	14.7	8.49	4.90	1430	84	0.78	2.7	3	2.3	6.9	65	28.2	0.010733
T1A 112M1-4	4	15.8	9.11	5.26	15.0	8.66	5.00	14.5	8.34	4.82	1440	85.5	0.78	2.3	3.3	2.1	7.8	65	29.8	0.013228
T1A 112M2-4	5.5	21.7	12.5	7.24	20.6	11.9	6.88	19.9	11.5	6.63	1450	86.5	0.77	3.4	3.5	2.6	8.6	71	36	0.016839
T1A 132S-4	5.5	20.5	11.9	6.84	19.5	11.3	6.50	18.8	10.9	6.26	1450	86	0.82	1.8	2.9	1.7	7.1	71	42	0.028012
T1A 132M1-4	7.5	28.2	16.3	9.40	26.8	15.5	8.93	25.8	14.9	8.61	1450	87.5	0.8	2.9	3.3	1.9	8.4	71	52.6	0.037145
T1A 132M2-4	9.2	33.8	19.5	11.3	32.1	18.5	10.7	30.9	17.9	10.3	1450	88.5	0.81	3.1	3.4	1.7	8.9	74	55	0.043597
T1A 132M3-4	11	40.0	23.1	13.3	38.0	21.9	12.7	36.6	21.1	12.2	1450	89.4	0.81	3.5	3.5	1.7	9.4	75	64	0.051339
T1A 160M-4	11	40.7	23.5	13.6	38.6	22.3	12.9	37.2	21.5	12.4	1460	89	0.8	2.3	2.8	1.3	6.8	75	74	0.080254
T1A 160L1-4	15	53.2	30.7	17.7	50.5	29.2	16.8	48.7	28.1	16.2	1460	90.5	0.82	2.4	2.6	1.4	7.5	75	90.3	0.105640
T1A 160L2-4	18.5	64.5	37.3	21.5	61.3	35.4	20.4	59.1	34.1	19.7	1460	90.9	0.83	2.4	2.5	1.4	7.6	78	104	0.127619
T1A 160L3-4	22	77.2	44.6	25.8	73.4	42.4	24.5	70.7	40.8	23.6	1460	91.4	0.82	2.8	2.7	1.5	8.8	80	118.5	0.149598

T1A Series IE1 Efficiency Motors Technical Data (at 50Hz)

Model	Power	Current(A)			Current(A)			Current(A)			Speed (r/min)	Eff. (%)	Power factor (cos ϕ)	T _{star} /T _n (Times)	T _{max} /T _n (Times)	T _{min} /T _n (Times)	I _s /I _n (Times)	Noise dB(A)	W.T (kg)	Inertia kg·m ²
		220V	380V	660V	230V	400V	690V	240V	415V	720V										
T1A 631-6	0.09	0.92	0.53	0.31	0.88	0.51	0.29	0.85	0.49	0.28	840	42	0.61	2	2	1.5	3.5	50	4.2	0.000418
T1A 632-6	0.12	1.13	0.65	0.38	1.08	0.62	0.36	1.04	0.60	0.35	850	45	0.62	2	2	1.5	3.5	50	4.5	0.000517
T1A 711-6	0.18	1.28	0.74	0.43	1.22	0.70	0.41	1.17	0.68	0.39	880	56	0.66	1.6	1.7	1.5	4	52	5.6	0.000841
T1A 712-6	0.25	1.59	0.92	0.53	1.51	0.87	0.50	1.46	0.84	0.49	900	59	0.7	2.1	2.2	1.5	4	52	6	0.000965
T1A 713-6	0.37	2.31	1.34	0.77	2.20	1.27	0.73	2.12	1.22	0.71	890	61	0.69	2	2.1	1.5	4	54	6.8	0.001150
T1A 801-6	0.37	2.42	1.40	0.81	2.30	1.33	0.77	2.21	1.28	0.74	910	61	0.66	1.9	2.2	1.8	3.2	56	8	0.001596
T1A 802-6	0.55	3.40	1.96	1.13	3.23	1.86	1.08	3.11	1.80	1.04	910	65.5	0.65	2.1	2.3	1.9	3.5	56	9.1	0.002041
T1A 803-6	0.75	4.06	2.34	1.35	3.85	2.23	1.28	3.72	2.14	1.24	910	70.5	0.69	2.1	2.2	1.9	3.8	58	10.6	0.002634
T1A 90S-6	0.75	4.06	2.34	1.35	3.86	2.23	1.29	3.72	2.15	1.24	940	71.5	0.68	1.8	2.2	1.5	4.1	59	11.5	0.003266
T1A 90L-6	1.1	5.97	3.45	1.99	5.67	3.27	1.89	5.46	3.15	1.82	930	73.5	0.66	1.9	2.3	1.8	4.1	59	14.5	0.004281
T1A 90L2-6	1.5	7.63	4.40	2.54	7.25	4.18	2.42	6.98	4.03	2.33	930	75	0.69	2	2.2	1.9	4.3	61	15.5	0.005487
T1A 100L-6	1.5	7.43	4.29	2.48	7.06	4.08	2.35	6.80	3.93	2.27	940	77	0.69	1.9	2.6	1.8	4.6	61	18.7	0.007543
T1A 100L2-6	2.2	9.71	5.61	3.24	9.22	5.33	3.07	8.89	5.13	2.96	940	79.5	0.75	2	2.3	1.8	5.1	64	22.8	0.009935
T1A 112M1-6	2.2	10.6	6.11	3.53	10.1	5.80	3.35	9.69	5.59	3.23	945	79.3	0.69	1.9	2.3	1.8	4.8	64	24.5	0.013950
T1A 112M2-6	3	14.1	8.16	4.71	13.4	7.75	4.47	12.9	7.47	4.31	950	81	0.69	1.9	2.8	1.8	5	64	28.5	0.017675
T1A 132S-6	3	13.3	7.67	4.43	12.6	7.29	4.21	12.2	7.03	4.06	960	82.5	0.72	1.9	2.5	1.4	5.7	64	36.4	0.030457
T1A 132M1-6	4	17.1	9.85	5.69	16.2	9.36	5.40	15.6	9.02	5.21	965	84.5	0.73	2	2.6	1.5	5.9	68	42.2	0.037251
T1A 132M2-6	5.5	23.5	13.6	7.84	22.3	12.9	7.45	21.5	12.4	7.18	950	85.5	0.72	2.1	2.7	1.6	6.2	68	51.4	0.048966
T1A 132M3-6	7.5	30.2	17.5	10.1	28.7	16.6	9.58	27.7	16.0	9.23	965	87	0.75	2.7	2.9	2	7.3	68	62.6	0.062355
T1A 160M-6	7.5	30.2	17.5	10.1	28.7	16.6	9.58	27.7	16.0	9.23	965	87	0.75	2.4	2.9	1.7	6.7	68	68.3	0.086226
T1A 160L-6	11	43.2	24.9	14.4	41.1	23.7	13.7	39.6	22.8	13.2	965	87	0.77	2.5	2.7	1.5	6.9	73	86	0.116874
T1A 711-8	0.09	0.97	0.56	0.32	0.92	0.53	0.31	0.88	0.51	0.29	680	43	0.57	2.4	2.5	2.3	2.5	50	5.6	0.000717
T1A 712-8	0.12	1.14	0.66	0.38	1.08	0.62	0.36	1.04	0.60	0.35	690	49.5	0.56	2.7	2.8	2.6	3	50	6	0.000841
T1A 801-8	0.18	1.48	0.86	0.49	1.41	0.81	0.47	1.36	0.79	0.45	690	55	0.58	2.2	2.4	2	3	52	8.3	0.002021
T1A 802-8	0.25	1.94	1.12	0.65	1.84	1.06	0.61	1.78	1.03	0.59	690	58.5	0.58	2.3	2.4	2	3.1	52	9.3	0.002323
T1A 90S-8	0.37	2.58	1.49	0.86	2.45	1.41	0.82	2.36	1.36	0.79	710	64	0.59	1.9	2.3	1.7	3.3	56	11.38	0.003266
T1A 90L-8	0.55	3.84	2.22	1.28	3.65	2.11	1.22	3.52	2.03	1.17	705	65	0.58	1.9	2.3	1.7	3.4	56	14	0.004281
T1A 90L2-8	0.75	4.69	2.71	1.56	4.45	2.57	1.49	4.29	2.48	1.43	700	69	0.61	1.8	2.1	1.8	3.5	59	15.5	0.004884
T1A 100L1-8	0.75	4.43	2.56	1.48	4.21	2.43	1.40	4.06	2.34	1.35	685	68.5	0.65	1.9	1.8	2.2	3.6	59	17.6	0.006346
T1A 100L2-8	1.1	6.09	3.52	2.03	5.79	3.34	1.93	5.58	3.22	1.86	690	72	0.66	1.9	2.1	1.8	3.5	59	20	0.008340
T1A 112M-8	1.5	7.87	4.54	2.62	7.48	4.32	2.49	7.21	4.16	2.40	700	76	0.66	1.8	2.3	1.8	4	61	25.3	0.013950
T1A 132S-8	2.2	10.6	6.13	3.54	10.1	5.83	3.36	9.73	5.62	3.24	715	79	0.69	1.9	2.4	1.7	4.9	64	39.6	0.032131
T1A 132M-8	3	13.9	8.04	4.64	13.2	7.64	4.41	12.7	7.36	4.25	715	81	0.7	2	2.5	1.8	5.1	64	47.4	0.040598
T1A 160M1-8	4	18.3	10.6	6.11	17.4	10.1	5.81	16.8	9.70	5.60	715	82	0.7	1.8	2.3	1.6	4.6	68	59.8	0.071036
T1A 160M2-8	5.5	24.8	14.3	8.25	23.5	13.6	7.84	22.7	13.1	7.56	710	83.5	0.7	1.9	2.4	1.8	4.8	68	69	0.086226
T1A 160L-8	7.5	33.0	19.0	11.0	31.3	18.1	10.4	30.2	17.4	10.1	715	85.5	0.7	2.5	2.8	2	5.7	68	84.8	0.113076

T2A Series IE2 Efficiency Motors Technical Data (at 50Hz)

Model	Power	Current(A)			Current(A)			Current(A)			Speed (r/min)	Eff. (%)	Power factor (cos φ)	T _{start} /T _n (Times)	T _{max} /T _n (Times)	T _{min} /T _n (Times)	I _s /I _n	Noise dB(A)	W.T (kg)	Inertia kg*m ²
		220V	380V	660V	230V	400V	690V	240V	415V	720V										
T2A 801-2	0.75	3.15	1.82	1.05	2.99	1.73	1.00	2.88	1.66	0.96	2840	77.4	0.81	2.6	2.8	2.2	6.1	67	8.4	0.000896
T2A 802-2	1.1	4.43	2.56	1.48	4.21	2.43	1.40	4.06	2.34	1.35	2860	79.6	0.82	2.6	2.6	1.8	7	67	9.8	0.001124
T2A 803-2	1.5	5.78	3.34	1.93	5.49	3.17	1.83	5.29	3.06	1.76	2880	81.3	0.84	2.9	3.1	2	7.4	70	11.3	0.001427
T2A 90S-2	1.5	5.92	3.42	1.97	5.63	3.25	1.88	5.42	3.13	1.81	2880	81.3	0.82	2.8	3	2	7.2	72	12.4	0.001856
T2A 90L1-2	2.2	8.38	4.84	2.79	7.96	4.60	2.66	7.68	4.43	2.56	2890	83.2	0.83	2.8	3.1	1.4	7.6	72	15	0.002306
T2A 90L2-2	3	11.0	6.34	3.66	10.4	6.02	3.48	10.05	5.80	3.35	2880	84.6	0.85	3.4	3.3	2.3	7.9	74	17.2	0.002966
T2A 100L1-2	3	10.7	6.19	3.58	10.2	5.88	3.40	9.82	5.67	3.27	2910	84.6	0.87	3.1	3.5	2.6	8.8	76	22	0.004131
T2A 100L2-2	4	14.1	8.14	4.70	13.4	7.73	4.47	12.9	7.46	4.30	2910	85.8	0.87	3.7	4.2	3.8	9.9	77	25.8	0.005197
T2A 112M1-2	4	13.8	7.96	4.60	13.1	7.56	4.37	12.6	7.29	4.21	2920	85.8	0.89	3.3	3.6	2	9.6	77	26.7	0.006311
T2A 112M2-2	5.5	19.1	11.0	6.37	18.2	10.5	6.06	17.5	10.1	5.84	2920	87	0.87	3.4	4.1	2.8	10.2	78	32.5	0.008057
T2A 132S1-2	5.5	18.7	10.8	6.23	17.8	10.3	5.92	17.1	9.9	5.71	2920	87	0.89	2.4	3.4	1.9	8.3	80	39.7	0.013319
T2A 132S2-2	7.5	25.2	14.5	8.39	23.9	13.8	7.97	23.0	13.3	7.68	2920	88.1	0.89	3.1	3.7	2	10.3	80	47.3	0.016473
T2A 132M1-2	9.2	30.7	17.7	10.2	29.1	16.8	9.71	28.1	16.2	9.36	2920	88.7	0.89	3.4	4.1	1.4	10.8	81	52	0.017834
T2A 132M2-2	11	36.0	20.8	12.0	34.2	19.7	11.4	32.9	19.0	11.0	2930	89.4	0.9	4	3.9	1.7	12.7	83	58.5	0.021619
T2A 132M3-2	15	48.6	28.0	16.2	46.1	26.6	15.4	44.5	25.7	14.8	2940	90.3	0.9	3.7	4.3	1.7	13.6	86	74	0.028557
T2A 160M1-2	11	36.4	21.0	12.1	34.6	20.0	11.5	33.3	19.2	11.1	2950	89.4	0.89	2.6	3.4	1.5	8.4	86	79	0.050092
T2A 160M2-2	15	48.6	28.0	16.2	46.1	26.6	15.4	44.5	25.7	14.8	2950	90.3	0.9	2.6	3.4	1.8	9.4	86	91	0.065326
T2A 160L1-2	18.5	59.5	34.4	19.8	56.5	32.6	18.8	54.5	31.5	18.2	2950	90.9	0.9	2.6	3.2	1.8	9.4	86	101	0.077018
T2A 160L2-2	22	69.7	40.2	23.2	66.2	38.2	22.1	63.8	36.8	21.3	2950	91.3	0.91	3.1	3.6	1.8	10.6	91	112.5	0.090348
T2A 802-4	0.75	3.49	2.02	1.16	3.32	1.92	1.11	3.20	1.85	1.07	1420	79.6	0.71	2.7	2.9	2.4	5.7	58	10.4	0.001928
T2A 803-4	1.1	4.94	2.85	1.65	4.69	2.71	1.56	4.52	2.61	1.51	1420	81.4	0.72	3.1	3.1	2.5	5.9	61	12.3	0.002522
T2A 90S-4	1.1	4.81	2.77	1.60	4.57	2.64	1.52	4.40	2.54	1.47	1440	81.4	0.74	2.9	3.1	2.2	6.8	61	13.8	0.003342
T2A 90L1-4	1.5	6.44	3.72	2.15	6.12	3.53	2.04	5.90	3.41	1.97	1440	82.8	0.74	3.1	3.2	2.2	6.5	61	16.1	0.004185
T2A 90L2-4	2.2	9.16	5.29	3.05	8.70	5.02	2.90	8.38	4.84	2.80	1430	84.3	0.75	3.4	2.4	2.2	7.1	64	18.8	0.005352
T2A 100L1-4	2.2	8.38	4.84	2.79	7.96	4.59	2.65	7.67	4.43	2.56	1440	84.3	0.82	2.4	2.9	2	6.6	64	22	0.007765
T2A 100L2-4	3	11.5	6.66	3.85	11.0	6.33	3.66	10.6	6.10	3.52	1450	85.5	0.8	2.3	3.2	2.4	7.6	64	25.8	0.009743
T2A 100L3-4	4	15.2	8.77	5.06	14.4	8.33	4.81	13.9	8.03	4.64	1440	86.6	0.8	2.8	3.2	2.3	7.2	65	28.6	0.011063
T2A 112M1-4	4	14.8	8.56	4.94	14.1	8.13	4.69	13.6	7.84	4.52	1440	86.6	0.82	2.5	3.3	2.3	7.9	65	31.4	0.013744
T2A 112M2-4	5.5	20.6	11.9	6.88	19.6	11.3	6.53	18.9	10.9	6.30	1440	87.7	0.8	3.7	3.6	3.1	8.3	71	36.7	0.017355
T2A 132S-4	5.5	19.9	11.5	6.63	18.9	10.9	6.30	18.2	10.5	6.07	1460	87.7	0.83	2.1	3.5	1.9	8.6	71	44.3	0.030593
T2A 132M1-4	7.5	26.8	15.5	8.94	25.5	14.7	8.49	24.5	14.2	8.18	1460	88.7	0.83	2.7	3.2	1.7	8.9	71	54.5	0.039726
T2A 132M2-4	9.2	31.9	18.4	10.6	30.3	17.5	10.1	29.2	16.9	9.7	1460	89.2	0.85	2.9	3.2	1.7	8.7	74	56.6	0.046178
T2A 132M3-4	11	37.9	21.9	12.6	36.0	20.8	12.0	34.7	20.0	11.6	1460	89.8	0.85	3.3	3.6	1.4	9.3	75	68	0.053920
T2A 160M-4	11	38.8	22.4	12.9	36.9	21.3	12.3	35.6	20.5	11.9	1460	89.8	0.83	2.5	2.7	1.7	7	75	82	0.089674
T2A 160L1-4	15	51.9	29.9	17.3	49.3	28.4	16.4	47.5	27.4	15.8	1470	90.6	0.84	2.5	2.8	1.6	8.3	75	103	0.118199
T2A 160L2-4	18.5	63.5	36.7	21.2	60.4	34.9	20.1	58.2	33.6	19.4	1470	91.2	0.84	2.7	3	1.7	8.8	78	115	0.137038
T2A 803-6	0.75	3.88	2.24	1.29	3.69	2.13	1.23	3.55	2.05	1.18	920	75.9	0.67	2.7	2.6	2.5	4.2	58	11.7	0.003079
T2A 90S-6	0.75	4.00	2.31	1.33	3.80	2.19	1.27	3.66	2.11	1.22	940	75.9	0.65	2.2	2.5	1.9	4.5	59	12.6	0.003467
T2A 90L-6	1.1	5.37	3.10	1.79	5.10	2.95	1.70	4.92	2.84	1.64	950	78.1	0.69	2	2.4	1.8	4.9	59	15.2	0.004884
T2A 90L2-6	1.5	7.27	4.20	2.42	6.91	3.99	2.30	6.66	3.85	2.22	945	79.8	0.68	2.7	3	2.5	5.1	61	18.2	0.006292
T2A 100L-6	1.5	6.68	3.86	2.23	6.35	3.67	2.12	6.12	3.53	2.04	950	79.8	0.74	1.7	2.2	1.6	4.8	61	20.7	0.008340
T2A 100L2-6	2.2	9.83	5.68	3.28	9.34	5.39	3.11	9.00	5.20	3.00	950	81.8	0.72	2.5	2.7	2.1	5.5	64	25	0.011529
T2A 112M-6	2.2	9.70	5.60	3.23	9.21	5.32	3.07	8.88	5.13	2.96	955	81.8	0.73	2.1	2.7	1.8	5.5	64	26	0.015440
T2A 112M2-6	3	13.2	7.60	4.39	12.5	7.22	4.17	12.1	6.96	4.02	955	83.3	0.72	2.3	2.8	2.1	5.7	64	31	0.019165
T2A 132S-6	3	12.5	7.20	4.16	11.8	6.84	3.95	11.4	6.59	3.81	960	83.3	0.76	1.6	2.4	1.5	5.6	64	37.8	0.032131
T2A 132M1-6	4	16.8	9.71	5.61	16.0	9.22	5.32	15.4	8.89	5.13	965	84.6	0.74	2	2.6	1.6	5.9	68	43.8	0.038925
T2A 132M2-6	5.5	22.4	13.0	7.48	21.3	12.3	7.11	20.5	11.9	6.85	965	86	0.75	2.4	2.6	1.8	6.6	68	51.1	0.048966
T2A 132M3-6	7.5	29.8	17.2	9.93	28.3	16.3	9.43	27.3	15.7	9.09	970	87.2	0.76	3.1	3.2	1.9	7.9	68	66	0.065702
T2A 160M-6	7.5	29.4	17.0	9.80	27.9	16.1	9.31	26.9	15.5	8.97	965	87.2	0.77	2.5	2.9	1.8	6.9	68	74	0.093821
T2A 160L-6	11	42.9	24.8	14.3	40.8	23.6	13.6	39.3	22.7	13.1	970	88.7	0.76	2.2	2.3	1.3	6.5	73	93	0.128267
T2A 160L2-6	15	57.2	33.0	19.1	54.3	31.3	18.1	52.3	30.2	17.4	965	89.7	0.77	3.1	3	2.2	8.3	79	116	0.170040

T3A Series IE3 Efficiency Motors Technical Data (at 50Hz)

Model	Power	Current(A)			Current(A)			Current(A)			Speed (r/min)	Eff.			Power Factor	Tstart/Tn (Times)	Tmax/Tn (Times)	Tmin/Tn (Times)	Is/In (Times)	Noise dB(A)	W.T (kg)	Jnertia kg*m²
		220V	380V	660V	230V	400V	690V	240V	415V	720V		100%	75%	50%								
T3A 631-2	0.18	0.96	0.55	0.32	0.91	0.53	0.30	0.88	0.51	0.29	2850	65.9	63.5	56.2	0.75	2	2.5	1.6	4.7	61	3.6	0.000231
T3A 632-2	0.25	1.21	0.70	0.40	1.15	0.66	0.38	1.11	0.64	0.37	2840	69.7	68.4	62.5	0.78	2.5	2.7	2	5.2	61	3.9	0.000255
T3A 711-2	0.37	1.74	1.00	0.58	1.65	0.95	0.55	1.59	0.92	0.53	2860	73.8	72.4	66.5	0.76	2.5	2.8	1.8	5.6	64	5.2	0.000369
T3A 712-2	0.55	2.33	1.34	0.78	2.21	1.28	0.74	2.13	1.23	0.71	2860	77.8	63.5	56.2	0.80	3.1	3.1	2	6.5	64	6.2	0.000495
T3A 713-2	0.75	2.98	1.72	0.99	2.83	1.64	0.94	2.73	1.58	0.91	2870	80.7	80.8	78.2	0.82	3	3.2	2.2	7.1	65	7.1	0.000606
T3A 801-2	0.75	3.02	1.74	1.01	2.87	1.66	0.96	2.76	1.60	0.92	2890	80.7	80.3	77.2	0.81	3.1	3.2	2.3	7.4	67	8.9	0.000972
T3A 802-2	1.1	4.22	2.43	1.41	4.01	2.31	1.34	3.86	2.23	1.29	2890	82.7	82.5	79.9	0.83	3.4	3.4	2	8.7	67	10.6	0.001275
T3A 803-2	1.5	5.79	3.34	1.93	5.50	3.17	1.83	5.30	3.06	1.77	2910	84.2	83.9	81.5	0.81	4	4	2.2	9.6	70	12.5	0.001654
T3A 90S-2	1.5	5.72	3.30	1.91	5.43	3.14	1.81	5.24	3.02	1.75	2900	84.2	83.8	81.4	0.82	3.5	3.7	2.1	8.3	72	14	0.002186
T3A 90L1-2	2.2	8.22	4.75	2.74	7.81	4.51	2.60	7.53	4.35	2.51	2910	85.9	86.1	84.7	0.82	3.1	3.5	2.2	8.1	72	16.3	0.002636
T3A 90L2-2	3	11.3	6.54	3.78	10.8	6.21	3.59	10.37	5.99	3.46	2910	87.1	87.1	84.2	0.80	4	4.1	2.6	9.6	74	18.5	0.003406
T3A 100L1-2	3	10.2	5.88	3.39	9.7	5.59	3.23	9.33	5.38	3.11	2910	87.1	87.5	86.3	0.89	3.2	3.6	2.6	9.4	76	23.7	0.004842
T3A 100L2-2	4	13.3	7.66	4.43	12.6	7.28	4.20	12.2	7.02	4.05	2910	88.1	88.7	88.1	0.90	3.3	3.6	2.3	10.1	77	27.6	0.005907
T3A 112M1-2	4	13.1	7.58	4.38	12.5	7.20	4.16	12.0	6.94	4.01	2920	88.1	88.2	87.0	0.91	3.4	3.9	2.4	10.5	77	30.1	0.007505
T3A 112M2-2	5.5	17.8	10.3	5.94	16.9	9.78	5.65	16.3	9.43	5.44	2920	89.2	89.6	89.1	0.91	3.3	4.2	2.9	11.9	78	35.7	0.009251
T3A 132S1-2	5.5	18.2	10.5	6.08	17.3	10.0	5.77	16.7	9.64	5.56	2930	89.2	89.4	88.2	0.89	3.2	4	2.5	10	80	43.4	0.015212
T3A 132S2-2	7.5	24.3	14.1	8.11	23.1	13.4	7.71	22.3	12.9	7.43	2930	90.1	90.2	89.1	0.90	3.6	4.7	2.4	11.9	80	51.7	0.018996
T3A 132M1-2	9.2	29.4	17.0	9.79	27.9	16.1	9.30	26.9	15.5	8.96	2930	90.6	91.2	90.5	0.91	3.2	4.2	2.6	11.6	81	58.3	0.021619
T3A 132M2-2	11	34.5	19.9	11.5	32.8	18.9	10.9	31.6	18.2	10.5	2930	91.2	91.5	91.2	0.92	3.6	4.1	2.4	12.2	83	63.5	0.024142
T3A 132M3-2	15	47.7	27.6	15.9	45.3	26.2	15.1	43.7	25.2	14.6	2940	91.9	92.1	91.2	0.90	4.9	4.9	2	14.4	86	75	0.028557
T3A 160M1-2	11	36.1	20.8	12.0	34.3	19.8	11.4	33.0	19.1	11.0	2960	91.2	91	89.6	0.88	3.2	4	1.4	10.3	86	85.5	0.059613
T3A 160M2-2	15	48.3	27.9	16.1	45.8	26.5	15.3	44.2	25.5	14.7	2960	91.9	91.5	89.9	0.89	3.9	4.2	1.4	11.4	86	104	0.076751
T3A 160L1-2	18.5	57.9	33.4	19.3	55.0	31.8	18.3	53.0	30.6	17.7	2950	92.4	92.8	91.8	0.91	3	3	1.5	9.1	86	121	0.092252
T3A 180M-2	22	68.6	39.6	22.9	65.2	37.6	21.7	62.8	36.3	20.9	2960	92.7	93	92.4	0.91	2.7	3.3	1.7	9	91	130.6	0.104677
T3A 200L1-2	30	94.0	54.3	31.3	89.3	51.6	29.8	86.1	49.7	28.7	2960	93.3	93.2	92.2	0.90	3.5	3.8	1.8	10.2	94	158	0.136738
T3A 200L2-2	37	115.5	66.7	38.5	109.7	63.3	36.6	105.7	61.0	35.2	2960	93.7	93.6	92.6	0.90	3.6	3.7	1.7	9.8	94	173.1	0.163308
T3A 631-4	0.12	0.70	0.40	0.23	0.66	0.38	0.22	0.64	0.37	0.21	1360	64.8	63.7	57.6	0.70	2.2	2.3	2	3.5	52	3.8	0.000305
T3A 632-4	0.18	0.97	0.56	0.32	0.92	0.53	0.31	0.89	0.51	0.30	1400	69.9	69.6	65.4	0.70	2.2	2.5	2.1	4.1	52	4.5	0.000399
T3A 711-4	0.25	1.30	0.75	0.43	1.23	0.71	0.41	1.19	0.69	0.40	1410	73.5	73.2	69.0	0.69	2.3	2.5	2.1	4.5	55	5.8	0.000717
T3A 712-4	0.37	1.85	1.07	0.62	1.76	1.02	0.59	1.70	0.98	0.57	1420	77.3	77.1	73.6	0.68	2.8	3	2.5	5.2	55	7	0.000965
T3A 801-4	0.55	2.80	1.62	0.93	2.66	1.54	0.89	2.56	1.48	0.85	1440	80.8	79.9	76.0	0.64	3.1	3.3	2.4	6.2	57	9.5	0.001690
T3A 802-4	0.75	3.47	2.00	1.16	3.29	1.90	1.10	3.17	1.83	1.06	1440	82.5	82.5	80.1	0.69	3.1	3.1	2.5	6.3	58	11.7	0.002285
T3A 803-4	1.1	4.65	2.69	1.55	4.42	2.55	1.47	4.26	2.46	1.42	1430	84.1	84.9	83.7	0.74	3	3.1	2.6	6.6	61	13.8	0.002998
T3A 90S-4	1.1	4.72	2.72	1.57	4.48	2.59	1.49	4.32	2.49	1.44	1440	84.1	84.2	82.9	0.73	4	3.4	2.5	7.1	61	15.1	0.003842
T3A 90L1-4	1.5	6.25	3.61	2.08	5.94	3.43	1.98	5.73	3.31	1.91	1430	85.3	85.5	84.1	0.74	3.4	3.3	2.8	7.1	61	18	0.004685
T3A 100L1-4	2.2	8.35	4.82	2.78	7.93	4.58	2.64	7.64	4.41	2.55	1450	86.7	87.1	86.2	0.80	2.8	3.3	2.3	7.9	64	23.9	0.008754
T3A 100L2-4	3	11.5	6.66	3.85	11.0	6.33	3.65	10.6	6.10	3.52	1450	87.7	88	86.9	0.78	3.3	3.4	2.7	8.1	64	28.3	0.011063
T3A 112M1-4	4	14.5	8.37	4.83	13.8	7.95	4.59	13.3	7.66	4.42	1450	88.6	88.8	88.2	0.82	3.1	3.7	2.6	8.6	65	33.9	0.015292
T3A 112M2-4	5.5	20.2	11.7	6.73	19.2	11.1	6.39	18.5	10.7	6.16	1450	89.6	89.9	89.1	0.80	3.8	3.7	2.5	9.1	71	39.1	0.048758
T3A 132S-4	5.5	19.2	11.1	6.41	18.3	10.5	6.09	17.6	10.2	5.87	1460	89.6	89.8	89.4	0.84	2.3	3.5	1.9	9	71	47.4	0.034464
T3A 132M1-4	7.5	26.0	15.0	8.66	24.7	14.3	8.23	23.8	13.7	7.93	1460	90.4	90.9	90.3	0.84	2.6	3.4	2.2	8.9	71	57.4	0.043597
T3A 132M2-4	9.2	32.5	18.8	10.8	30.9	17.8	10.3	29.8	17.2	9.93	1460	90.8	91.3	90.7	0.82	3.2	3.6	2	10	74	60	0.051339
T3A 132M3-4	11	37.7	21.8	12.6	35.8	20.7	11.9	34.5	19.9	11.5	1460	91.4	92	91.6	0.84	3.5	3.7	2.1	10.5	75	67	0.060372
T3A 160M-4	11	38.2	22.0	12.7	36.3	20.9	12.1	34.9	20.2	11.6	1470	91.4	91.7	89.8	0.83	2.6	2.8	1.8	7.6	75	89	0.105373
T3A 160L1-4	15	50.4	29.1	16.8	47.9	27.7	16.0	46.2	26.7	15.4	1470	92.1	92.3	91.3	0.85	3	3	2	9.2	75	110.5	0.137038
T3A 180M-4	18.5	61.1	35.3	20.4	58.1	33.5	19.4	56.0	32.3	18.7	1470	92.6	92.8	92.1	0.86	2.8	3.3	1.9	8.8	80	130	0.173293
T3A 180L-4	22	72.4	41.8	24.1	68.8	39.7																

MEPS2(Aus) Efficiency Motors Technical Data (at 50Hz)

Model	Power(kW)	Current(A)			Current(A)			Speed (r/min)	Eff. (%)	Power factor (cos ϕ)	T_{st}/T_n (Times)	T_{max}/T_n (Times)	T_{br}/T_n (Times)	I_{st}/I_n (Times)	Inertia kg*m ²
		230V	400V	690V	240V	415V	720V								
TAI 801-2	0.75	2.99	1.72	1.00	2.88	1.66	0.96	2890	80.5	0.78	2.9	3.3	1.9	7	0.000972
TAI 802-2	1.1	4.05	2.34	1.35	3.90	2.25	1.30	2890	82.8	0.82	2.8	2.8	1.8	7.6	0.001200
TAI 90S-2	1.5	5.44	3.14	1.81	5.24	3.03	1.75	2880	84.1	0.82	2.8	3	2	7.2	0.001856
TAI 90L-2	2.2	7.74	4.47	2.58	7.46	4.31	2.49	2900	85.6	0.83	3	3.1	2.2	8.2	0.002416
TAI 100L1-2	3	10.1	5.81	3.35	9.70	5.60	3.23	2910	86.7	0.86	3.1	3.5	2.6	8.8	0.004131
TAI 112M1-2	4	12.8	7.41	4.28	12.4	7.14	4.12	2920	87.6	0.89	3.3	3.6	2	9.6	0.006311
TAI 112M2-2	5.5	17.9	10.3	5.95	17.2	9.94	5.74	2920	88.5	0.87	3.4	4.1	2.8	10.2	0.008087
TAI 132S1-2	5.5	17.7	10.2	5.89	17.0	9.83	5.67	2920	88.5	0.88	2.4	3.4	1.9	8.3	0.013319
TAI 132S2-2	7.5	23.5	13.6	7.85	22.7	13.1	7.56	2920	89.5	0.89	3.1	3.7	2	10.3	0.016473
TAI 160M1-2	11	34.1	19.7	11.4	32.9	19.0	11.0	2950	90.6	0.89	2.6	3.4	1.5	8.4	0.050092
TAI 160M2-2	15	45.6	26.3	15.2	44.0	25.4	14.7	2950	91.3	0.9	2.6	3.4	1.8	9.4	0.065326
TAI 160L-2	18.5	56.0	32.3	18.7	54.0	31.2	18.0	2950	91.8	0.9	2.6	3.2	1.8	9.4	0.077018
TAI 180M-2	22	65.6	37.8	21.9	63.2	36.5	21.1	2950	92.2	0.91	2.5	2	1.4	8.1	0.095016
TAI 200L1-2	30	88.7	51.2	29.6	85.5	49.4	28.5	2950	92.9	0.91	2.5	3.3	1.3	8.8	0.122246
TAI 200L2-2	37	108.9	62.9	36.3	105.0	60.6	35.0	2960	93.3	0.91	2.8	3.5	1.3	9.6	0.148816
TAI 802-4	0.75	3.31	1.91	1.10	3.19	1.84	1.06	1420	82.2	0.69	3	3.1	2.5	5.5	0.002047
TAI 90S-4	1.1	4.38	2.53	1.46	4.22	2.43	1.41	1420	83.8	0.75	2.9	2.8	2.2	6.2	0.003508
TAI 90L1-4	1.5	5.88	3.40	1.96	5.67	3.27	1.89	1440	85	0.75	3	3.2	2.4	7.3	0.004352
TAI 90L2-4	2.2	8.49	4.90	2.83	8.18	4.72	2.73	1430	86.4	0.75	3.4	2.4	2.2	7.1	0.005352
TAI 100L1-4	2.2	7.76	4.48	2.59	7.48	4.32	2.49	1440	86.4	0.82	2.6	3.1	2.1	7.3	0.007765
TAI 100L2-4	3	10.7	6.19	3.58	10.3	5.97	3.45	1450	87.4	0.8	2.9	3.4	2.4	8.1	0.009743
TAI 112M1-4	4	14.2	8.17	4.72	13.6	7.88	4.55	1440	88.3	0.8	2.8	3.3	2.6	7.4	0.013744
TAI 112M2-4	5.5	19.3	11.1	6.42	18.6	10.7	6.19	1430	89.2	0.8	3.7	3.5	3.1	8.3	0.017355
TAI 132S-4	5.5	18.4	10.6	6.12	17.7	10.2	5.90	1460	89.2	0.84	2	2.9	1.7	7.9	0.030593
TAI 132M1-4	7.5	24.8	14.3	8.26	23.9	13.8	7.96	1460	90.1	0.84	2.8	3.2	1.8	8.7	0.039726
TAI 132M3-4	11	35.6	20.5	11.9	34.3	19.8	11.4	1460	91	0.85	3.3	3.6	1.4	9.3	0.053920
TAI 160M-4	11	36.0	20.8	12.0	34.7	20.0	11.6	1470	91	0.84	2.5	2.7	1.7	7	0.089674
TAI 160L1-4	15	48.6	28.1	16.2	46.9	27.1	15.6	1470	91.8	0.84	2.5	2.8	1.6	8.3	0.118199
TAI 180M-4	18.5	57.7	33.3	19.2	55.6	32.1	18.5	1460	92.2	0.87	2.4	3	1.8	7.8	0.155064
TAI 180L-4	22	67.5	39.0	22.5	65.1	37.6	21.7	1460	92.6	0.88	2.4	2.8	1.7	7.7	0.173293
TAI 200L-4	30	93.6	54.0	31.2	90.2	52.1	30.1	1470	93.2	0.86	3.2	3.7	2.3	9.5	0.242313
TAI 90S-6	0.75	3.71	2.14	1.24	3.58	2.07	1.19	940	77.7	0.65	2.2	2.5	1.9	4.5	0.003467
TAI 90L-6	1.1	5.06	2.92	1.69	4.88	2.82	1.63	950	79.9	0.68	2.5	2.7	2.2	5.1	0.004884
TAI 100L1-6	1.5	6.22	3.59	2.07	5.99	3.46	2.00	950	81.5	0.74	1.7	2.2	1.6	4.8	0.008340
TAI 112M-6	2.2	9.03	5.22	3.01	8.71	5.03	2.90	955	83.4	0.73	2.1	2.7	1.8	5.5	0.015440
TAI 132S-6	3	11.6	6.71	3.87	11.2	6.47	3.73	965	84.9	0.76	1.8	2.5	1.5	6.1	0.032131
TAI 132M1-6	4	15.7	9.06	5.23	15.1	8.73	5.04	965	86.1	0.74	2	2.6	1.6	5.9	0.038925
TAI 132M2-6	5.5	21.0	12.1	6.99	20.2	11.7	6.74	965	87.4	0.75	2.4	2.6	1.8	6.6	0.048966
TAI 160M-6	7.5	27.5	15.9	9.17	26.5	15.3	8.84	965	88.5	0.77	2.5	2.9	1.8	6.9	0.093821
TAI 160L-6	11	40.3	23.3	13.4	38.8	22.4	12.9	970	89.8	0.76	2.2	2.3	1.3	6.5	0.128267
TAI 180L-6	15	49.8	28.8	16.6	48.0	27.7	16.0	965	90.7	0.83	2.2	2.7	1.2	8	0.254063
TAI 200L1-6	18.5	61.0	35.2	20.3	58.8	34.0	19.6	975	91.3	0.83	2.1	2.9	1.5	8.3	0.303941
TAI 200L2-6	22	72.2	41.7	24.1	69.6	40.2	23.2	975	91.8	0.83	2.2	3	1.6	8.9	0.353160

IEC Frame-NEMA EPACT Efficiency Motors Technical Data (at 60Hz)

Model	Power		Current(A)		Current(A)	Speed (r/min)	Eff. (%)	Power factor (cos ϕ)	T _{sl} /T _n (Times)	T _{max} /T _n (Times)	T _{min} /T _n (Times)	I _{sl} /I _n (Times)	Inertia kg*m ²
IEC	(HP)	(kW)	230V	460V	575V								
TFA 801-2	1	0.75	3.24	1.62	1.30	3480	75.5	0.77	2.2	3.2	2.2	5.9	0.000896
TFA 802-2	1.5	1.1	4.13	2.07	1.65	3480	82.5	0.81	3.5	3.6	2.6	8.4	0.001124
TFA 90S-2	2	1.5	5.47	2.73	2.19	3510	84	0.82	3.3	3.7	1.7	9.2	0.001856
TFA 90L-2	3	2.2	7.78	3.89	3.11	3510	85.5	0.83	3.3	3.8	2.3	9.6	0.002306
TFA 100L1-2	4	3	9.78	4.89	3.91	3510	87.5	0.88	4.1	4.7	3.1	10.8	0.004842
TFA 112M1-2	5.5	4	12.8	6.38	5.10	3500	87.5	0.9	2.9	3.9	2.2	9.5	0.006311
TFA 132S1-2	7.5	5.5	17.1	8.57	6.86	3520	88.5	0.91	2.2	3.6	1.4	9	0.013950
TFA 132S2-2	10	7.5	22.9	11.4	9.15	3530	89.5	0.92	3.1	4.1	1.7	10.8	0.017735
TFA 160M1-2	15	11	34.4	17.2	13.8	3550	90.2	0.89	3	3.4	1.7	9.4	0.050092
TFA 160M2-2	20	15	46.4	23.2	18.6	3550	90.2	0.9	2.9	3.1	1.6	8.9	0.059613
TFA 160L-2	25	18.5	56.1	28.0	22.4	3550	91	0.91	3	3.3	1.8	9.6	0.069401
TFA 802-4	1	0.75	3.36	1.68	1.34	1740	82.5	0.68	3.4	3.7	2.9	7.1	0.001928
TFA 90S-4	1.5	1.1	4.63	2.31	1.85	1740	84	0.71	3.2	3.6	2.7	7.2	0.003342
TFA 90L1-4	2	1.5	5.98	2.99	2.39	1730	84	0.75	3	3.1	2.3	7.2	0.003852
TFA 100L1-4	3	2.2	7.79	3.90	3.12	1750	87.5	0.81	2.3	3.7	2.3	9.1	0.009084
TFA 100L2-4	4	3	10.36953748	5.18	4.15	1750	87.5	0.83	2.7	3.7	2.2	9	0.010403
TFA 112M1-4	5.5	4	13.8	6.91	5.53	1740	87.5	0.83	2.3	3.3	2.2	8.3	0.012197
TFA 132S-4	7.5	5.5	18.4	9.18	7.35	1760	89.5	0.84	2	3.5	1.9	9.1	0.030593
TFA 132M1-4	10	7.5	24.5	12.2	9.78	1760	89.5	0.86	2.7	3.4	1.6	9.3	0.037145
TFA 160M-4	15	11	36.1	18.1	14.4	1760	91	0.84	2.6	2.8	1.6	7.8	0.089674
TFA 160L1-4	20	15	48.7	24.3	19.5	1760	91	0.85	2.7	2.7	1.6	7.8	0.105640
TFA 90S-6	1	0.75	3.51	1.76	1.41	1145	80	0.67	2.2	2.6	2.1	5	0.003668
TFA 100L0-6	1.5	1.1	5.47	2.74	2.19	1170	85.5	0.59	3.3	4	2.6	7	0.009137
TFA 100L1-6	2	1.5	6.50	3.25	2.60	1160	86.5	0.67	3.3	3.8	3	6.9	0.011529
TFA 112M-6	3	2.2	9.02	4.51	3.61	1170	87.5	0.7	2.6	3.2	2	6.9	0.019910
TFA 132S-6	4	3	12.0	5.98	4.78	1170	87.5	0.72	2	2.8	1.7	6.3	0.035478
TFA 132M1-6	5.5	4	15.7	7.86	6.29	1170	87.5	0.73	2.2	2.8	1.7	6.6	0.038925
TFA 132M2-6	7.5	5.5	20.8	10.4	8.34	1170	89.5	0.74	2.4	3	1.9	7.3	0.059008
TFA 160M-6	10	7.5	27.0	13.5	10.8	1160	89.5	0.78	2.2	2.8	1.8	7	0.101417
TFA 160L-6	15	11	39.2	19.6	15.7	1170	90.2	0.78	2.3	2.9	1.8	7.2	0.128267

IEC Frame-NEMA Premium Efficiency Motors Technical Data (at 60Hz)

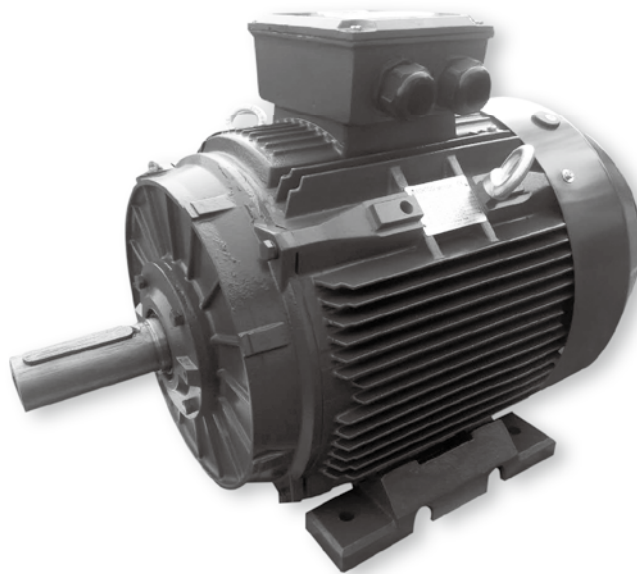
Model	Power		Current(A)		Current(A)	Speed (r/min)	Eff. (%)	Power factor (cos ϕ)	T _{st} /T _n (Times)	T _{max} /T _n (Times)	T _{min} /T _n (Times)	I _{st} /I _n (Times)	Inertia kg*m ²
IEC	(HP)	(kW)	230V	460V	575V								
TXA 801-2	1	0.75	3.13	1.57	1.25	3490	77	0.78	2.7	3.1	1.5	7.3	0.000896
TXA 802-2	1.5	1.1	4.11	2.05	1.64	3510	84	0.8	3.8	4.1	2.6	9.7	0.001275
TXA 90S-2	2	1.5	5.18	2.59	2.07	3500	85.5	0.85	2.9	3.3	2	9.1	0.001966
TXA 90L-2	3	2.2	7.34	3.67	2.94	3490	86.5	0.87	2.7	3.3	1.6	8.4	0.002416
TXA 100L1-2	4	3	9.56	4.78	3.82	3520	88.5	0.89	4.9	4.7	2.4	11.9	0.005197
TXA 112M1-2	5.5	4	12.6	6.30	5.04	3520	88.5	0.9	3.2	4	2.4	10.9	0.006893
TXA 132S1-2	7.5	5.5	17.0	8.48	6.78	3520	89.5	0.91	2.6	3.6	1.7	9.6	0.015212
TXA 132S2-2	10	7.5	22.7	11.3	9.08	3520	90.2	0.92	2.5	3.5	1.4	8.7	0.018996
TXA 132M-2	15	11	33.0	16.5	13.2	3530	91	0.92	3.5	4.7	0.8	11.5	0.023511
TXA 160M1-2	15	11	33.7	16.9	13.5	3550	91	0.9	2.7	3.3	0.9	8.8	0.053901
TXA 160M2-2	20	15	45.5	22.7	18.2	3550	91	0.91	3	3.3	1.4	9.6	0.065326
TXA 160L-2	25	18.5	55.7	27.8	22.3	3550	91.7	0.91	3.3	3.4	1.5	10.2	0.077018
TXA 802-4	1	0.75	3.06	1.53	1.22	1740	85.5	0.72	2.7	3	2.3	6.7	0.002285
TXA 90S-4	1.5	1.1	4.37	2.19	1.75	1740	86.5	0.73	3.6	3.7	2.6	7.7	0.003842
TXA 90L-4	2	1.5	5.65	2.83	2.26	1740	86.5	0.77	3	3.2	2.1	7.8	0.004685
TXA 100L1-4	3	2.2	7.71	3.86	3.09	1760	89.5	0.8	3	4	2.4	9.5	0.009743
TXA 100L2-4	4	3	10.65	5.33	4.26	1750	89.5	0.79	3.4	4.1	2.9	9.3	0.011063
TXA 112M1-4	5.4	4	13.2	6.60	5.28	1750	89.5	0.85	2.8	3.5	2.2	8.9	0.015292
TXA 132S-4	7.5	5.5	17.9	8.96	7.17	1770	91.7	0.84	2.6	4	1.9	10.1	0.038335
TXA 132M1-4	10	7.5	23.9	11.9	9.55	1760	91.7	0.86	3.1	3.8	1.7	10.3	0.046178
TXA 160M-4	15	11	36.0	18.0	14.4	1770	92.4	0.83	3.1	3.1	2	9	0.105373
TXA 160L1-4	20	15	47.6	23.8	19.1	1770	93	0.85	3.2	3	2	8.9	0.137038
TXA 90S-6	1	0.75	3.26	1.63	1.30	1145	82.5	0.7	2.3	2.7	2.1	5.2	0.004472
TXA 100L0-6	1.5	1.1	4.93	2.47	1.97	1175	87.5	0.64	3	3.6	2.4	7.1	0.011529
TXA 100L1-6	2	1.5	6.65	3.32	2.66	1170	88.5	0.64	2.9	3.9	2.8	7.2	0.013124
TXA 112M-6	3	2.2	8.94	4.47	3.58	1175	89.5	0.69	3.2	3.7	2.2	7.9	0.025870
TXA 132S-6	4	3	12.0	6.01	4.81	1175	89.5	0.7	2.6	3.2	1.9	7.1	0.048867
TXA 132M1-6	5.5	4	14.8	7.38	5.90	1170	89.5	0.76	2.3	2.9	1.6	7.3	0.053987
TXA 132M2-6	7.5	5.5	20.2	10.1	8.09	1170	91	0.75	3.4	3.5	1.9	8.8	0.079091
TXA 160M-6	10	7.5	27.6	13.8	11.0	1180	91	0.75	3.1	3.7	1.7	8.4	0.128267
TXA 160L-6	15	11	40.7	20.3	16.3	1180	91.7	0.74	3.1	3.7	1.7	8.5	0.177635

“ECOL” Motors

in Cast Iron Housing

FEATURES

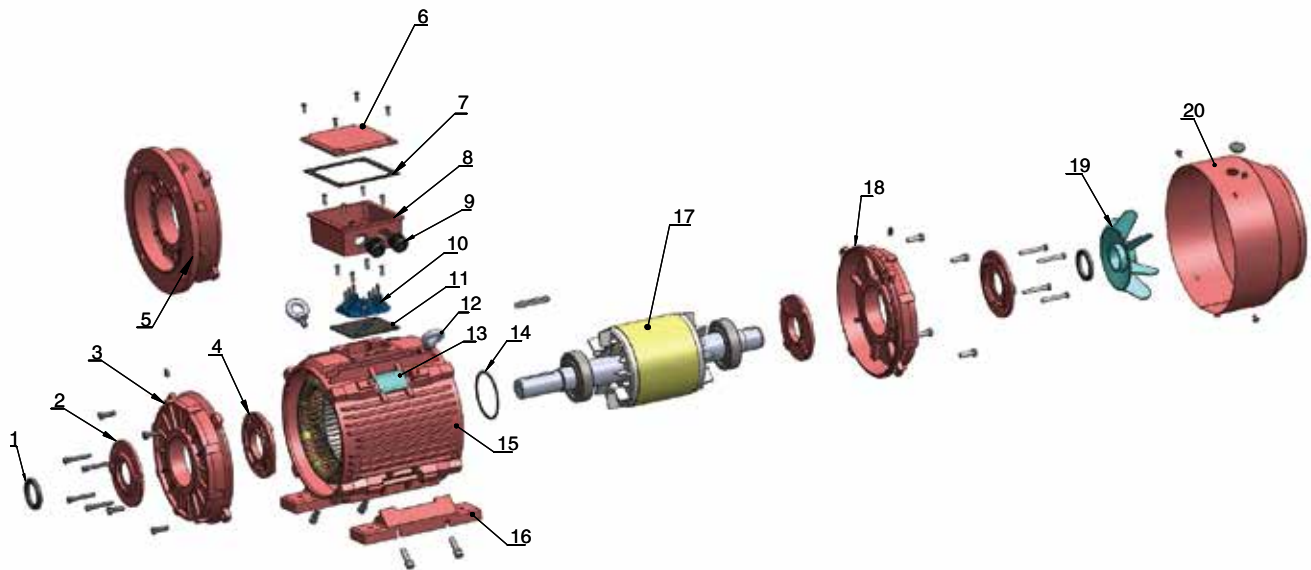
- Energy savings, high efficiency
- High starting torque, lower starting current
- Versatile and easy to modify design adapts to a variety of applications
- Option of integrated or removable feet
- Option of terminal box location (top, left or right)
- Option of IE2, IE3, MEPS High and Premium Efficiency for IEC standards + NEMA EPACT and Premium Efficiency
- Contained total length is the same as or shorter than the current market standard
- Full use of the magnetization properties of cold rolled silicone steel in which the stator laminations are magnetized evenly to reduce temperature rise of the winding



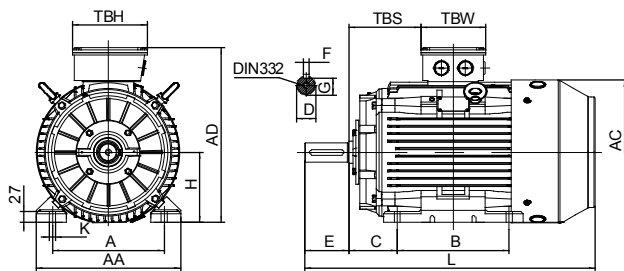
APPLICATIONS

- Pumps
- Waste water treatment plants
- Air compressors, fans
- Gear reducers and power transmission
- Pulp and paper mills
- Steel mill
- Conveyors, elevators
- Should be "Material handling equipment"
- Agricultural application
- Mining equipment
- Hydraulic equipment

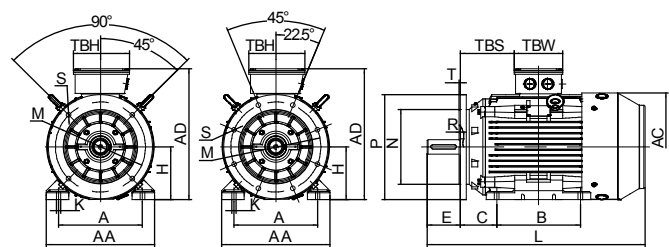
Motor Spare Part List "Exploded Drawing"



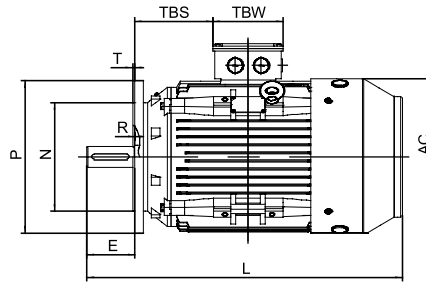
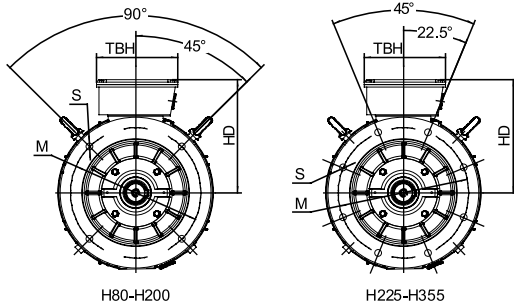
- | | | | |
|--------------------------|--------------------|----------------------|-------------------|
| 1. Oil seal | 6. TB cover | 11. TB bottom gasket | 16. Foot |
| 2. Outer bearing cap D.E | 7. TB upper gasket | 12. Eye bolt | 17. Rotor |
| 3. DE endshield | 8. TB base | 13. Nameplate | 18. NDE endshield |
| 4. Inner bearing cap D.E | 9. Cable gland | 14. Wave washer | 19. Cooling fan |
| 5. B5 flange | 10. Terminal board | 15. Frame | 20. Fan cover |



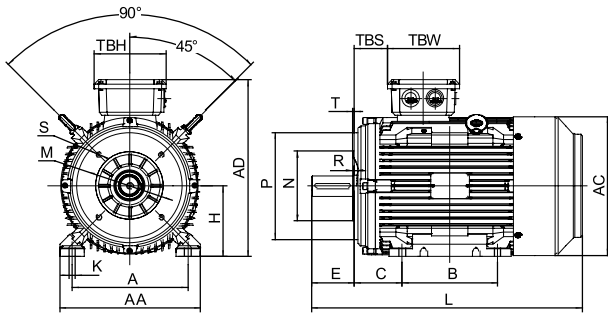
IM B3



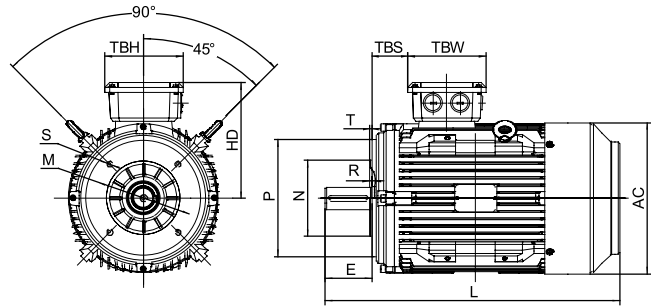
IM B35



IM B5



IM B34



IM B14

Overall & Installation Dimensions

Frame	Foot Mounting					Shaft					General							
	H	A	B	C	D	E	F	G	K	AA	AD	HD	AC	L	TBS	TBW	TBH	
80	80	125	100	50	φ 19	40	6	15.5	φ 9	154	214	134	φ 158	290	43	114	114	
90S/L	90	140	100/125	56	φ 24	50	8	20	φ 10	178	231	141	φ 176	320/345	49/61.5	114	114	
100L	100	160	140	63	φ 28	60	8	24	φ 12	203	251	151	φ 199	385	76	114	114	
112M	112	190	140	70	φ 28	60	8	24	φ 12	231	292	180	φ 220	405	73	134	134	
132S/M	132	216	140/178	89	φ 38	80	10	33	φ 12	263	332	200	φ 259	467/505	61.5	134	134	
160M/L	160	254	210/254	108	φ 42	110	12	37	φ 15	316	404	244	φ 313	605/650	91	162	187	
180M/L	180	279	241/279	121	φ 48	110	14	42.5	φ 15	354	445	265	φ 360	687/725	160/180	162	187	
200L	200	318	305	133	φ 55	110	16	49	φ 19	393	500	300	φ 399	768.5	192	186	233	
225S	4,6,8	225	356	286	φ 60	140	18	53	φ 19	440	558	333	φ 459	810	199	186	233	
225M	2	225	356	311	φ 55	110	16	49	φ 19	440	558	333	φ 459	805	211.5	186	233	
	4,6,8	225	356	311	φ 60	140	18	53	φ 19	440	558	333	φ 459	835	211.5	186	233	
250M	2	250	406	349	φ 60	140	18	53	φ 24	484	616	366	φ 506	915	233	218	260	
	4,6,8	250	406	349	φ 65	140	18	58	φ 24	484	616	366	φ 506	915	233	218	260	
280S/M	2	280	457	368/419	φ 65	140	18	58	φ 24	560	675	395	φ 559	984/1035	265/277	218/245	260/280	
	4,6,8	280	457	368/419	φ 75	140	20	67.5	φ 24	560	675	395	φ 559	984/1035	265/277	218/245	260/280	
315S	2	315	508	406	φ 65	140	18	58	φ 28	628	825	510	φ 680	1205	200	290	350	
	4,6,8	315	508	406	φ 80	170	22	71	φ 28	628	825	510	φ 680	1235	200	290	350	
315M/L	2	315	508	457/508	φ 65	140	18	58	φ 28	628	825	510	φ 680	1355	200	290	350	
	4,6,8	315	508	457/508	φ 80	170	22	71	φ 28	628	825	510	φ 680	1385	200	290	350	
355M/L	2	355	610	560/630	φ 75	140	20	67.5	φ 28	740	1010	655	φ 820	1495	140	330	380	
	4,6,8	355	610	560/630	φ 95	170	25	86	φ 28	740	1010	655	φ 820	1525	140	330	380	
	4,6,8	355	610	560/630	φ 100	210	28	90	φ 28	740	1010	655	φ 820	1565	140	330	380	

Frame	Bearings		Cable Gland	B5						B14					
	DE	NDE		N	M	P	S	T	R	N	M	P	S	T	R
80		6204-2RS	1-M20×1.5	φ 130	φ 165	φ 200	4×φ 12	3.5	0	φ 80	φ 100	φ 120	M6	3	0
90S/L		6205-2RS	1-M20×1.5	φ 130	φ 165	φ 200	4×φ 12	3.5	0	95	115	140	M8	3	0
100L		6206-2RS	1-M20×1.5	φ 180	φ 215	φ 250	4×φ 15	4	0	110	130	160	M8	3.5	0
112M		6306-2RS	2-M25×1.5	φ 180	φ 215	φ 250	4×φ 15	4	0	110	130	160	M8	3.5	0
132S/M		6308-2RS	2-M25×1.5	φ 230	φ 265	φ 300	4×φ 15	4	0	130	165	200	M10	3.5	0
160M/L		6309C3	2-M32×1.5	φ 250	φ 300	φ 350	4×φ 19	5	0	180	215	250	M12	5	0
180M/L		6311C3	2-M32×1.5	φ 250	φ 300	φ 350	4×φ 19	5	0						
200L		6312C3	2-M40×1.5	φ 300	φ 350	φ 400	4×φ 19	5	0						
225S/M		6313C3	2-M50×1.5	φ 350	φ 400	φ 450	8×φ 19	5	0						
250M		6314C3	2-M50×1.5	φ 450	φ 500	φ 550	8×φ 19	5	0						
280S/M		6316C3	2-M50×1.5	φ 450	φ 500	φ 550	8×φ 19	5	0						
315S/M/L	2	6317C3	2-M63×1.5	φ 550	φ 600	φ 660	8×φ 24	6	0						
	4,6,8	NU319 6319C3													
355M/L	2	6319C3	2-M63×1.5	φ 680	φ 740	φ 800	8×φ 24	6	0						
	4,6,8	NU322 6322C3													

T1C Series IE1 Efficiency Motors Technical Data

Model	Output (kW)	Rated current (A)	Rotation speed (r/min)	Efficiency 100% load (%)	Efficiency 75% load (%)	Efficiency 50% load (%)	Power factor (Φ)	Rated torque (N.m)	T _{st} /T _n (Times)	T _{min} /T _n (Times)	T _{max} /T _n (Times)	I _{st} /I _n (Times)	Nosie (dB)	Net weight (kg)	Moment of inertia(kg*m ²)
T1C 801-2	0.75	2.06	2840	72.1	73.3	69.0	0.73	2.52	2.2	1.8	2.3	6	67	14.3	0.00093
T1C 802-2	1.1	2.90	2840	75	77.7	74.8	0.73	3.70	2.2	1.8	2.3	7	67	16.0	0.00110
T1C 90S-2	1.5	3.79	2840	77.2	78.5	75.1	0.74	5.04	2.2	1.8	2.3	7	72	18.5	0.00184
T1C 90L-2	2.2	5.04	2840	79.7	80.9	78.8	0.79	7.40	2.2	1.8	2.3	7.5	72	22.0	0.00239
T1C 100L-2	3	6.56	2840	81.5	82.8	80.1	0.81	10.09	2.2	1.8	2.3	7.5	76	32.0	0.00368
T1C 112M-2	4	8.58	2900	83.1	84.9	82.6	0.81	13.17	2.2	1.8	2.3	7.5	77	41.0	0.01613
T1C 132S1-2	5.5	11.16	2900	84.7	85.5	82.8	0.84	18.11	2.2	1.8	2.3	7.5	80	57.5	0.01106
T1C 132S2-2	7.5	14.81	2900	86	87.1	84.7	0.85	24.70	2.2	1.8	2.3	7.5	80	62.0	0.01468
T1C 132M1-2	9.2	17.75	2900	87	88.2	86.1	0.86	30.30	2.2	1.4	2.3	7.5	80	68.5	0.01767
T1C 160M1-2	11	20.14	2945	87.6	88.9	86.6	0.90	35.67	2.2	1.4	2.3	8.5	86	111.0	0.04150
T1C 160M2-2	15	27.74	2945	88.7	90.0	88.1	0.88	48.64	2.2	1.4	2.3	9	86	122.0	0.05384
T1C 160L-2	18.5	35.18	2945	89.3	91.0	89.5	0.85	59.99	2.2	1.4	2.3	10	86	140.0	0.06436
T1C 180M-2	22	39.25	2945	89.9	89.9	87.6	0.90	71.34	2.2	1.3	2.3	8	89	153.0	0.08110
T1C 200L1-2	30	53.0	2950	90.7	91.4	89.7	0.90	97.12	2.0	1.3	2.3	7.5	92	218.0	0.15138
T1C 200L2-2	37	65.1	2950	91.2	92.7	91.5	0.90	119.8	2.0	1.3	2.3	7.5	92	230.0	0.17351
T1C 225M-2	45	78.7	2955	91.7	91.4	89.7	0.90	145.4	2.0	1.3	2.3	7.5	92	303.0	0.24178
T1C 250M-2	55	95.8	2970	92.1	92.5	90.7	0.90	176.9	2.0	1.3	2.3	9	93	391.0	0.38903
T1C 280S-2	75	129.7	2970	92.7	92.9	91.1	0.90	241.2	2.0	1.3	2.3	9	94	530.0	0.69871
T1C 280M-2	90	155.2	2970	93	92.8	90.9	0.90	289.4	2.0	1.3	2.3	9	94	572.0	0.79539
T1C 315S-2	110	189.1	2970	93.3	94.0	92.5	0.90	353.7	2.0	1.5	2.2	7	96	900.0	1.41216
T1C 315M-2	132	223.9	2970	93.5	94.1	92.8	0.91	424.4	2.0	1.5	2.2	7	96	970.0	1.55013
T1C 315L1-2	160	273.6	2970	93.8	94.2	93.0	0.90	514.5	2.0	1.5	2.2	7	99	1010.0	1.71199
T1C 315L2-2	200	341.2	2970	94	94.3	93.1	0.90	643.1	2.0	1.5	2.2	7	99	1070.0	1.90623
T1C 355M1-2	220	375.3	2980	94	94.3	93.1	0.90	705.0	2.0	1.2	2.2	7	103	1590.0	2.95585
T1C 355M2-2	250	426.5	2980	94	94.4	93.2	0.90	801.2	2.0	1.2	2.2	7	103	1650.0	3.14272
T1C 355L1-2	280	477.7	2980	94	94.5	93.2	0.90	897.3	2.0	1.2	2.2	7	103	1715.0	3.47911
T1C 355L2-2	315	537.4	2980	94	94.5	93.2	0.90	1009.5	2.0	1.2	2.2	7	103	1780.0	3.85287
T1C 801-4	0.55	1.51	1420	70	72.5	70.2	0.75	3.70	2.3	2.0	2.6	6	58	13.5	0.00141
T1C 802-4	0.75	2.00	1420	72.1	79.2	76.8	0.75	5.04	2.3	2.0	2.6	6	58	14.6	0.00168
T1C 90S-4	1.1	2.82	1430	75	77.8	74.5	0.75	7.35	2.3	2.0	2.6	6.5	61	18.0	0.00238
T1C 90L-4	1.5	3.69	1430	77.2	80.0	77.3	0.76	10.02	2.3	2.0	2.6	6.5	61	23.0	0.00335
T1C 100L1-4	2.2	4.98	1430	79.7	79.3	75.6	0.80	14.69	2.2	2.0	2.6	6.5	64	32.0	0.00688
T1C 100L2-4	3	6.64	1435	81.5	82.6	79.9	0.80	19.97	2.2	2.0	2.6	7.5	64	35.0	0.00883
T1C 112M-4	4	8.47	1435	83.1	86.2	84.7	0.82	26.62	2.2	2.0	2.6	7.5	65	44.0	0.01311
T1C 132S-4	5.5	11.29	1440	84.7	87.5	85.6	0.83	36.48	2.2	1.6	2.6	7.5	71	61.0	0.02679
T1C 132M-4	7.5	14.81	1440	86	88.6	86.9	0.85	49.74	2.2	1.6	2.6	7.5	71	76.0	0.03694
T1C 132M2-4	9.2	18.17	1440	86	88.6	85.8	0.85	61.01	2.2	1.6	2.6	7.5	71	79.0	0.04412
T1C 160M-4	11	21.58	1465	87.6	89.7	88.8	0.84	71.71	2.2	1.6	2.6	8.5	75	115.0	0.07659
T1C 160L-4	15	28.06	1465	88.7	90.8	90.2	0.87	97.78	2.2	1.6	2.6	8	75	137.0	0.10379
T1C 180M-4	18.5	33.98	1465	89.3	90.6	89.3	0.88	120.6	2.2	1.6	2.6	8	76	149.5	0.14084
T1C 180L-4	22	40.14	1465	89.9	90.7	89.3	0.88	143.4	2.2	1.6	2.6	8	76	165.0	0.16541
T1C 200L-4	30	56.16	1475	90.7	92.3	91.6	0.85	194.2	2.2	1.6	2.6	8	79	216.5	0.26594
T1C 225S-4	37	68.9	1480	91.2	90.9	88.8	0.85	238.8	2.2	1.3	2.6	7	81	293.0	0.50439
T1C 225M-4	45	83.3	1480	91.7	92.6	91.0	0.85	290.4	2.2	1.3	2.6	7	81	335.0	0.57909
T1C 250M-4	55	100.2	1480	92.1	92.4	90.7	0.86	354.9	2.2	1.3	2.6	8	83	397.0	0.69098
T1C 280S-4	75	131.2	1480	92.7	93.1	93.2	0.89	484.0	2.2	1.3	2.6	9	86	540.0	1.41285
T1C 280M-4	90	155.2	1480	93	93.4	93.5	0.90	580.7	2.2	1.3	2.6	9	86	620.0	1.74607
T1C 315S-4	110	189.1	1480	93.3	93.8	93.2	0.90	709.8	2.0	1.3	2.3	7	93	915.0	2.90486
T1C 315M-4	132	226.4	1480	93.5	94.0	93.6	0.90	851.8	2.0	1.3	2.3	7	93	1005.0	3.29579
T1C 315L1-4	160	273.6	1480	93.8	94.0	93.5	0.90	1032.4	2.0	1.3	2.3	7	97	1068.0	3.73367
T1C 315L2-4	200	341.2	1480	94	94.3	93.9	0.90	1290.5	2.0	1.3	2.3	7	97	1210.0	4.67201
T1C 355M1-4	220	379.6	1480	94	94.5	94.0	0.89	1419.6	2.0	1.2	2.3	7	101	1560.0	6.87200
T1C 355M2-4	250	431.3	1480	94	94.5	94.0	0.89	1613.2	2.0	1.2	2.3	7	101	1600.0	7.63820
T1C 355L1-4	280	483.1	1480	94	94.5	94.0	0.89	1806.8	2.0	1.2	2.3	7	101	1650.0	8.31927
T1C 355L2-4	315	537.4	1485	94	94.6	94.1	0.90	2025.8	2.0	1.2	2.3	7	101	1700.0	9.08547
T1C 355L3-4	355	605.7	1485	94	94.6	94.1	0.90	2283.0	2.0	1.2	2.3	7	101	1780.0	10.10708

T1C Series IE1 Efficiency Motors Technical Data

Model	Output (kW)	Rated current (A)	Rotation speed (r/min)	Efficiency 100% load (%)	Efficiency 75% load (%)	Efficiency 50% load (%)	Power factor (Φ)	Rated torque (N.m)	T _s /T _n (Times)	T _{min} /T _n (Times)	T _{max} /T _n (Times)	I _s /I _n (Times)	Nosie (dB)	Net weight (kg)	Moment of inertia(kg·m ²)
T1C 801-6	0.37	1.49	900	59.7	60.5	55.7	0.60	3.93	2.0	1.8	2.2	5.5	54	14.0	0.00231
T1C 802-6	0.55	1.95	900	65.8	66.1	62.3	0.62	5.84	2.0	1.8	2.2	5.5	54	15.0	0.00284
T1C 90S-6	0.75	2.34	935	70	70.4	65.8	0.66	7.66	2.0	1.8	2.2	5.5	57	19.0	0.00335
T1C 90L-6	1.1	3.20	935	72.9	74.2	70.8	0.68	11.24	2.0	1.8	2.2	5.5	57	21.6	0.00461
T1C 100L-6	1.5	3.94	940	75.2	75.7	72.4	0.73	15.24	2.0	1.8	2.2	5.5	61	29.5	0.00783
T1C 112M-6	2.2	5.68	940	77.7	79.3	76.2	0.72	22.35	2.0	1.8	2.2	6	65	38.0	0.01383
T1C 132S-6	3	7.24	940	79.7	80.2	76.8	0.75	30.48	2.0	1.8	2.2	6	69	49.6	0.02855
T1C 132M1-6	4	9.58	950	81.4	82.8	80.1	0.74	40.21	2.0	1.8	2.5	6	69	59.4	0.03601
T1C 132M2-6	5.5	12.91	950	83.1	83.0	80.6	0.74	55.29	2.0	1.8	2.5	7.5	69	65.0	0.04890
T1C 160M-6	7.5	16.82	965	84.7	87.0	85.2	0.76	74.22	2.0	1.3	2.5	7.5	73	112.0	0.08726
T1C 160L-6	11	24.18	970	86.4	86.7	84.4	0.76	108.3	2.0	1.3	2.5	7.5	73	122.4	0.10963
T1C 180L-6	15	29.74	970	87.7	89.1	87.8	0.83	147.7	1.8	1.2	2.2	8	73	161.5	0.24936
T1C 200L1-6	18.5	34.25	970	88.6	90.9	90.3	0.88	182.1	1.8	1.2	2.2	8	76	208.3	0.36147
T1C 200L2-6	22	40.45	970	89.2	91.0	90.5	0.88	216.6	1.8	1.2	2.2	8	76	218.2	0.39445
T1C 225M-6	30	55.2	975	90.2	91.2	89.9	0.87	293.8	1.8	1.2	2.2	7	76	289.0	0.55616
T1C 250M-6	37	70.0	980	90.8	90.7	88.6	0.84	360.6	2.0	1.3	2.2	7.5	78	380.0	0.96477
T1C 280S-6	45	83.6	980	91.4	92.6	91.6	0.85	438.5	2.0	1.3	2.2	7.5	80	489.5	1.68116
T1C 280M1-6	55	100.4	980	91.9	93.3	92.5	0.86	536.0	2.0	1.3	2.2	7.5	80	560.0	1.99928
T1C 315S-6	75	135.9	985	92.6	93.4	92.2	0.86	727.2	2.0	1.3	2.3	7	85	806.0	3.25976
T1C 315M-6	90	162.6	985	92.9	93.5	92.5	0.86	872.6	2.0	1.3	2.3	7	85	912.0	3.90933
T1C 315L1-6	110	197.9	985	93.3	93.5	92.3	0.86	1066.5	2.0	1.3	2.3	7	85	965.0	4.54331
T1C 315L2-6	132	236.9	985	93.5	93.6	92.5	0.86	1279.8	2.0	1.3	2.3	7	85	1070.0	5.44899
T1C 355M1-6	160	276.6	990	93.8	93.5	92.7	0.89	1543.4	2.0	1.2	2.2	8	92	1537.0	8.97637
T1C 355M2-6	200	341.2	990	94	93.5	92.8	0.90	1929.3	2.0	1.2	2.2	8	92	1720.0	11.00175
T1C 355L-6	250	426.5	990	94	93.6	92.8	0.90	2411.6	2.0	1.2	2.2	8	92	1880.0	13.56011
T1C 801-8	0.18	0.8	680	51	52.5	48.5	0.61	3.5	1.5	1.3	1.7	2.8	52	15	0.00214
T1C 802-8	0.25	1.1	680	56	58.2	52.5	0.61	3.5	1.6	1.3	2	2.7	52	16.1	0.00249
T1C 90S-8	0.37	1.3	680	63	63.8	58.5	0.63	5.2	1.6	1.3	1.8	2.8	56	19.2	0.00335
T1C 90L-8	0.55	1.9	680	66	67.2	62.3	0.65	7.7	1.6	1.3	1.8	3	56	21.8	0.00461
T1C 100L1-8	0.75	2.4	710	66	67.5	62.5	0.67	10.1	1.7	1.3	2.1	3.5	59	27.9	0.00688
T1C 100L2-8	1.1	3.2	710	72	72.8	67.7	0.69	14.8	1.7	1.3	2.1	3.5	59	32	0.00925
T1C 112M-8	1.5	4.3	710	74	73.2	68.6	0.68	20.2	1.8	1.2	2.1	4.2	61	39.1	0.01552
T1C 132S-8	2.2	6.0	720	75	75.5	71.1	0.71	29.2	2	1.2	2	5.5	64	58	0.03408
T1C 132M-8	3	7.7	720	77	77.2	72.6	0.73	39.8	2	1.2	2	5.5	64	64	0.04522
T1C 160M1-8	4	11.1	730	80	79.5	75.6	0.65	52.33	1.6	1.2	2.2	6	68	108	0.07620
T1C 160M2-8	5.5	14.63	730	83.5	81.6	77.7	0.65	71.95	1.6	1.2	2.2	6	68	124	0.09095
T1C 160L-8	7.5	19.6	730	85	82.8	79.5	0.65	98.12	1.6	1.2	2.2	6	68	136	0.10594
T1C 180L-8	11	24.1	730	88	87.3	84.9	0.75	143.9	2	1.4	2	6	70	174	0.25695
T1C 200L-8	15	29.7	730	89	89.3	88	0.82	196.2	1.6	1.3	2.2	7	73	220	0.36146925
T1C 225S-8	18.5	37.1	735	90	88.8	87.2	0.80	240.4	1.6	1.3	2	6	73	285	0.49077762
T1C 225M-8	22	43.9	735	90.5	90.4	89.1	0.80	285.9	1.6	1.3	2	6	73	310	0.588850097
T1C 250M-8	30	59.5	735	91	91.9	90.8	0.80	389.8	1.6	1.0	1.8	6	75	395	1.020084976
T1C 280S-8	37	74.8	740	91.5	91.2	90.5	0.78	477.5	1.9	1.2	2	6.5	76	523	1.889789448
T1C 280M-8	45	90.5	740	92	92.3	90.8	0.78	580.7	1.9	1.2	2	6.5	76	575	2.26007525
T1C 315S-8	55	106.9	740	92.8	92.5	91.2	0.80	709.8	2	1.3	2	6.5	82	842	3.893736952
T1C 315M-8	75	145.5	740	93	92.6	91.1	0.80	967.9	2	1.3	2	6.5	82	998.8	5.267854396
T1C 315L1-8	90	173.1	740	93.8	93.9	92.3	0.80	1161.5	2	1.3	2	6.5	82	1096.8	6.264106443
T1C 315L2-8	110	211.1	740	94	93.2	92.2	0.80	1419.6	2	1.3	2	6.5	82	1191.2	7.441495226
T1C 355M1-8	132	254.2	740	93.7	93.6	92.5	0.80	1703.5	1.8	1.3	2	6.5	90	1496.8	8.86978
T1C 355M2-8	160	306.4	740	94.2	93.6	92.3	0.80	2064.9	1.8	1.3	2	6.5	90	1592	10.04236
T1C 355L-8	200	381.8	740	94.5	93.1	92.5	0.80	2581.1	1.8	1.3	2	6.5	90	1752	12.28093

T2C Series IE2 Efficiency Motors Technical Data

Model	Output (kW)	Rated current (A)	Rotation speed (r/min)	Efficiency 100% load (%)	Efficiency 75% load (%)	Efficiency 50% load (%)	Power factor (Φ)	Rated torque (N.m)	T _{st} /T _n (Times)	T _{min} /T _n (Times)	T _{max} /T _n (Times)	I _{st} /I _n (Times)	Nosie (dB)	Net weight (kg)	Moment of inertia(kg·m ²)
T2C 801-2	0.75	1.73	2840	77.4	77.5	73.8	0.81	2.52	2.5	2.1	2.6	6	67	14.5	0.00084
T2C 802-2	1.1	2.43	2880	79.6	80.5	78.6	0.82	3.65	2.5	1.8	2.6	7	67	16.5	0.00119
T2C 90S-2	1.5	3.25	2880	81.3	81.9	81.0	0.82	4.97	2.5	1.8	2.6	7	72	18.5	0.00184
T2C 90L-2	2.2	4.60	2880	83.2	83.6	82.5	0.83	7.30	2.5	1.4	2.6	7.5	72	22.0	0.00239
T2C 100L-2	3	6.17	2890	84.6	85.5	84.0	0.83	9.91	2.5	2.0	2.8	7.5	76	33.0	0.00410
T2C 112M-2	4	7.65	2910	85.8	85.3	82.7	0.88	13.13	2.5	1.8	2.8	9.5	77	41.0	0.00607
T2C 132S1-2	5.5	10.37	2910	87	88.1	86.0	0.88	18.05	2.4	1.8	2.8	8.5	80	59.5	0.01251
T2C 132S2-2	7.5	13.96	2920	88.1	89.0	87.3	0.88	24.53	2.5	1.8	2.8	10	80	64.0	0.01613
T2C 132M1-2	9.2	17.13	2920	88.1	88.9	87.0	0.88	30.09	2.5	1.4	3.0	10	80	71.0	0.01758
T2C 160M1-2	11	19.73	2930	89.4	89.5	89.0	0.90	35.85	2.5	1.4	2.8	8.5	86	113.0	0.04561
T2C 160M2-2	15	26.64	2940	90.3	90.0	88.8	0.90	48.72	2.5	1.3	2.8	9	86	124.0	0.06206
T2C 160L-2	18.5	32.64	2940	90.9	91.3	90.0	0.90	60.09	2.5	1.4	2.8	9.5	86	140.0	0.07528
T2C 180M-2	22	38.6	2945	91.3	91.2	89.8	0.90	71.34	2.5	1.4	2.8	9	89	168.0	0.08110
T2C 200L1-2	30	52.3	2945	92	92.1	90.9	0.90	97.3	2.0	1.3	2.5	7	92	235.0	0.14253
T2C 200L2-2	37	64.2	2945	92.5	91.5	92.3	0.90	120.0	2.5	1.5	2.5	7.5	92	246.0	0.16466
T2C 225M-2	45	77.7	2950	92.9	92.4	91.6	0.90	145.7	2.5	1.3	2.4	7.5	92	321.0	0.24906
T2C 250M-2	55	94.6	2960	93.2	93.5	92.0	0.90	177.4	2.3	1.4	2.6	8.5	93	419.0	0.43328
T2C 280S-2	75	128.2	2960	93.8	93.7	92.4	0.90	242.0	2.5	1.8	2.6	9	94	571.0	0.79186
T2C 280M-2	90	153.4	2960	94.1	94.3	93.2	0.90	290.4	2.5	1.8	2.6	9.5	94	638.0	0.90716
T2C 315S-2	110	187.1	2960	94.3	94.5	93.2	0.90	354.9	2.0	1.4	2.3	6	96	927.0	1.50928
T2C 315M-2	132	223.8	2960	94.6	94.8	93.4	0.90	425.9	2.0	1.4	2.3	6	96	1006.0	1.67962
T2C 315L1-2	160	270.7	2960	94.8	95.0	93.7	0.90	516.2	2.0	1.4	2.3	6	99	1060.0	1.87385
T2C 315L2-2	200	337.6	2960	95	95.3	93.9	0.90	645.3	1.8	1.3	2.3	5.5	99	1130.0	2.13283
T2C 355M1-2	220	371.4	2960	95	95.5	93.8	0.90	709.8	1.8	1.3	2.3	5.5	103	1590.0	2.95585
T2C 355M2-2	250	422.0	2960	95	95.5	93.9	0.90	806.6	1.8	1.3	2.3	5.5	103	1650.0	3.14272
T2C 355L1-2	280	472.7	2960	95	95.6	93.9	0.90	903.4	1.8	1.3	2.3	5.5	103	1715.0	3.47911
T2C 355L2-2	315	531.8	2960	95	95.6	93.9	0.90	1016.3	1.8	1.3	2.3	5.5	103	1780.0	3.85287
T2C 802-4	0.75	1.92	1420	79.6	79.8	77.5	0.71	5.04	2.5	2.1	2.6	5.7	58	16.0	0.00128
T2C 90S-4	1.1	2.75	1430	81.4	81.9	79.1	0.71	7.35	2.5	2.1	2.6	6.1	61	20.0	0.00315
T2C 90L-4	1.5	3.53	1430	82.8	83.4	80.4	0.74	10.02	2.5	2.0	2.6	6.5	61	24.0	0.00411
T2C 100L1-4	2.2	4.71	1430	84.3	85.5	83.6	0.80	14.69	2.2	2.0	2.6	6.6	64	34.0	0.00883
T2C 100L2-4	3	6.33	1435	85.5	85.7	83.9	0.80	19.97	2.2	2.0	3.0	7.6	64	35.0	0.01039
T2C 112M-4	4	8.23	1435	86.6	87.2	85.5	0.81	26.62	2.2	2.0	3.0	7.9	65	45.0	0.01369
T2C 132S-4	5.5	10.91	1440	87.7	89.2	87.1	0.83	36.48	2.2	1.8	3.0	8.8	71	63.0	0.02966
T2C 132M-4	7.5	14.70	1440	88.7	89.8	87.5	0.83	49.74	2.2	1.6	3.0	9	71	77.5	0.03981
T2C 132M2-4	9.2	17.82	1440	88.7	89.9	87.5	0.84	61.01	2.2	1.6	3.0	8.8	71	85.0	0.04700
T2C 160M-4	11	21.30	1440	89.8	91.7	91.0	0.83	72.95	2.5	1.6	2.5	7.1	75	119.0	0.08670
T2C 160L-4	15	27.47	1450	90.6	91.3	90.5	0.87	98.79	2.5	1.6	2.5	8.9	75	146.0	0.11272
T2C 180M-4	18.5	34.05	1450	91.2	91.8	90.8	0.86	121.8	2.5	1.6	2.8	8.6	76	161.0	0.14084
T2C 180L-4	22	39.4	1460	91.6	92.2	91.6	0.88	143.9	2.5	1.6	2.8	8.1	76	176.0	0.16541
T2C 200L-4	30	53.3	1460	92.3	92.8	91.9	0.88	196.2	2.5	2.1	3.0	8.5	79	242.0	0.27306
T2C 225S-4	37	65.5	1470	92.7	93.9	92.6	0.88	240.4	2.2	1.3	2.3	7.6	81	315.0	0.50439
T2C 225M-4	45	78.4	1480	93.1	94.2	92.8	0.89	290.4	2.2	1.3	2.3	7.7	81	340.0	0.59389
T2C 250M-4	55	98.7	1480	93.5	94.4	93.6	0.86	354.9	2.5	1.5	2.5	8.6	83	420.0	0.70950
T2C 280S-4	75	128.0	1480	94	94.9	93.7	0.90	484.0	2.5	2.0	2.5	9	86	580.0	1.59510
T2C 280M-4	90	153.2	1480	94.2	94.9	93.7	0.90	580.7	2.5	2.0	2.5	8.7	86	650.0	1.89187
T2C 315S-4	110	190.9	1480	94.5	94.8	93.2	0.88	709.8	2.0	1.3	2.8	7.4	93	938.0	3.09253
T2C 315M-4	132	226.1	1480	94.7	95.0	93.6	0.89	851.8	2.0	1.3	2.6	7	93	1030.0	3.48345
T2C 315L1-4	160	273.4	1480	94.9	95.0	93.5	0.89	1032.4	2.0	1.3	2.6	6	97	1106.0	3.98390
T2C 315L2-4	200	341.1	1480	95.1	95.3	93.9	0.89	1290.5	2.0	1.3	2.3	6	97	1220.0	4.67201
T2C 355M1-4	220	375.2	1480	95.1	95.9	94.1	0.89	1419.6	1.8	1.3	2.3	5.5	101	1560.0	6.87200
T2C 355M2-4	250	426.3	1480	95.1	95.8	94.0	0.89	1613.2	1.8	1.3	2.3	5.5	101	1600.0	7.63820
T2C 355L1-4	280	477.5	1480	95.1	95.9	94.3	0.89	1806.8	1.8	1.3	2.3	5.5	101	1650.0	8.31927
T2C 355L2-4	315	531.2	1480	95.1	96.0	94.2	0.90	2032.6	1.8	1.3	2.3	5.5	101	1700.0	9.08547
T2C 355L3-4	355	598.7	1480	95.1	96.0	94.2	0.90	2290.7	1.8	1.3	2.3	5.5	101	1780.0	10.10708
T2C 90S-6	0.75	2.23	935	75.9	76.4	73.8	0.64	7.66	2.0	1.8	2.2	5	57	19.6	0.00360
T2C 90L-6	1.1	2.99	935	78.1	78.6	77.6	0.68	11.24	2.0	1.8	2.2	5	57	23.5	0.00536
T2C 100L-6	1.5	3.72	940	79.8	80.2	78.3	0.73	15.24	1.6	1.6	2.2	5	61	32.0	0.00877
T2C 112M-6	2.2	5.39	940	81.8	82.5	79.0	0.72	22.35	2.0	1.8	2.5	6	65	39.0	0.01468
T2C 132S-6	3	6.93	940	83.3	84.0	82.2	0.75	30.48	1.6	1.5	2.2	6	69	54.0	0.03039
T2C 132M1-6	4	9.22	950	84.6	85.1	83.5	0.74	40.21	2.0	1.6	2.5	6	69	65.0	0.03785
T2C 132M2-6	5.5	12.47	950	86	86.8	85.4	0.74	55.29	2.0	1.8	2.5	7	69	66.0	0.04890
T2C 160M-6	7.5	17.5	960	87.2	88.3	86.7	0.71	74.6	2.5	1.8	2.8	9	73	112.0	0.08726
T2C 160L-6	11	23.9	960	88.7	88.6	87.5	0.75	109.4	2.5	1.4	2.8	9	73	132.6	0.12069
T2C 180L-6	15	30.9	960	89.7	90.8	89.3	0.78	149.2	2.5	1.5	2.8	9	73	179.0	0.25695
T2C 200L1-6	18.5	36.9	970	90.4	91.0	89.8	0.80	182.1	2.0	1.4	2.8	9	76	221.4	0.36147
T2C 200L2-6	22	42.6	970	90.9	91.5	90.1	0.82	216.6	2.5	1.8	2.8	10	76	240.6	0.42742
T2C 225M-6	30	55.6	975	91.7	92.3	91.2	0.85	293.8	2.5	1.5	2.2	9	76	335.0	0.67058
T2C 250M-6	37	69.0	975	92.2	93.0	91.8	0.84	362.4	1.8	1.3	2.2	7	78	391.4	0.99243
T2C 280S-6	45	82.4	980	92.7	92.7	91.9	0.85	438.5	2.3	1.4	2.3	8.5	80	514.0	1.78548
T2C 280M1-6	55	99.2	980	93.1	93.2	92.2	0.86	536.0	2.5	1.7	2.8	9	80	584.0	2.20792
T2C 315S-6	75	135.9	980	93.7	94	92.3	0.85	730.9	2.0	1.3	2.3	7	85	807.0	3.25976
T2C 315M-6	90	162.6	980	94	94.6	92.3	0.85	877.0	2.0	1.3	2.3	7	85	913.0	3.90933
T2C 315L1-6	110	198.1	980	94.3	94.8	92.4	0.85	1071.9	2.0	1.3	2.3	7	85	966.0	4.54331
T2C 315L2-6	132	236.9	980	94.6	94.9	92.4	0.85	1286.3	2.0	1.3	2.3	6.5	85	1080.0	5.53956
T2C 355M1-6	160	286.6	980	94.8	94.9	92.5	0.85	1559.2	2.0	1.3	2.3	6.5	92	1537.0	8.97637
T2C 355M2-6	200	357.5	980	95	95	92.6	0.85	1949.0	2.0	1.3	2.3	6.5	92	1720.0	11.00175
T2C 355L-6	250	446.9	980	95	95.2	92.6	0.85	2436.2	2.0	1.3	2.3	6.5	92	1880.0	13.56011

T3C Series IE3 Efficiency Motors Technical Data

Model	Output (kW)	Rated current (A)	Rotation speed (r/min)	Efficiency 100% load (%)	Efficiency 75% load (%)	Efficiency 50% load (%)	Power factor (Φ)	Rated torque (N.m)	T _s /T _n (Times)	T _{min} /T _n (Times)	T _{max} /T _n (Times)	I _s /I _n (Times)	Nosie (dB)	Net weight (kg)	Moment of inertia (kg·m ²)
T3C 100L-6	1.5	3.55	940	82.5	83.0	81.6	0.74	15.24	2.0	1.7	2.2	5.2	61	33.50	0.00972
T3C 112M-6	2.2	5.38	940	84.3	85.0	83.2	0.70	22.35	2.0	1.8	2.2	6.2	65	40.00	0.01637
T3C 132S-6	3	6.84	940	85.6	86.1	84.5	0.74	30.48	2.0	1.7	2.2	6	69	59.00	0.03223
T3C 132M1-6	4	8.99	950	86.8	87.6	85.2	0.74	40.21	2.0	1.6	2.5	7	69	75.50	0.04338
T3C 132M2-6	5.5	12.71	950	88	88.8	86.9	0.71	55.29	2.3	1.8	2.5	7.5	69	76.30	0.05443
T3C 160M-6	7.5	16.2	960	89.1	90.3	88.0	0.75	74.6	2.3	1.4	2.8	7.5	73	112.00	0.08726
T3C 160L-6	11	23.1	960	90.3	91.2	88.5	0.76	109.4	2.5	1.4	2.8	8.5	73	134.00	0.13544
T3C 180L-6	15	30.1	960	91.2	92.0	90.3	0.79	149.2	2.5	1.4	2.8	8	73	184.50	0.27973
T3C 200L1-6	18.5	36.4	970	91.7	92.3	90.6	0.80	182.1	2.5	1.4	2.8	9.5	76	231.00	0.38345
T3C 200L2-6	22	42.5	970	92.2	93.0	91.3	0.81	216.6	2.5	1.5	2.8	10	76	249.00	0.44941
T3C 225M-6	30	53.0	975	92.9	93.8	90.9	0.88	293.8	1.8	1.5	2.2	7	76	339.00	0.67058
T3C 250M-6	37	67.3	975	93.3	94.0	91.8	0.85	362.4	1.8	1.3	2.0	7	78	399.40	0.99243
T3C 280S-6	45	83.5	980	93.7	94.6	92.7	0.83	438.5	2.5	1.8	2.8	10	80	551.00	2.20274
T3C 280M1-6	55	99.3	980	94.1	95.0	93.4	0.85	536.0	2.5	1.8	2.8	10	80	624.30	2.57302
T3C 315S-6	75	139.6	980	94.6	94.8	93.2	0.82	730.9	2.0	1.3	2.3	7.5	85	860.00	3.80317
T3C 315M-6	90	166.9	980	94.9	95	93.4	0.82	877.0	2.0	1.3	2.3	7.5	85	970.00	4.45274
T3C 315L1-6	110	203.6	980	95.1	95.4	94	0.82	1071.9	2.0	1.3	2.3	7.5	85	1070.00	5.53956
T3C 315L2-6	132	243.6	980	95.4	95.7	94.2	0.82	1286.3	2.0	1.3	2.3	7.5	85	1196.00	6.62638
T3C 355M1-6	160	294.6	980	95.6	95.8	94.3	0.82	1559.2	2.0	1.3	2.3	7.5	92	1537.00	8.97637
T3C 355M2-6	200	367.5	980	95.8	95.8	94.3	0.82	1949.0	2.0	1.3	2.3	7.5	92	1720.00	11.00175
T3C 355L1-6	220	404.2	980	95.8	96	94.2	0.82	2143.9	2.0	1.3	2.3	7.5	92	1800.00	11.64134
T3C 355L-6	250	459.3	980	95.8	96	94.3	0.82	2436.2	2.0	1.3	2.3	7.5	92	1880.00	13.56011
T3C 801-2	0.75	1.68	2880	80.7	81.0	76.2	0.80	2.49	2.5	2.1	2.8	7.5	67	15.20	0.00093
T3C 802-2	1.1	2.40	2880	82.7	83.5	81.6	0.80	3.65	2.5	1.8	2.8	8	67	17.10	0.00128
T3C 90S-2	1.5	3.06	2880	84.2	84.9	84.0	0.84	4.97	2.5	1.8	2.8	8.5	72	21.5	0.00224
T3C 90L-2	2.2	4.45	2880	85.9	86.4	84.7	0.83	7.30	2.5	1.8	2.8	8.6	72	24.6	0.00279
T3C 100L-2	3	5.65	2900	87.1	88.5	86.8	0.88	9.88	2.5	2.0	2.8	9.5	76	35.5	0.00496
T3C 112M-2	4	7.28	2910	88.1	88.5	87.1	0.90	13.13	2.5	2.0	2.8	10.5	77	44.5	0.00744
T3C 132S1-2	5.5	10.11	2910	89.2	90.2	88.6	0.88	18.05	2.5	2.0	3.0	10	80	63.2	0.01468
T3C 132S2-2	7.5	13.50	2920	90.1	90.8	89.3	0.89	24.53	2.5	1.5	3.0	10	80	70.2	0.01903
T3C 132M1-2	9.2	16.47	2920	90.6	91.2	89.5	0.89	30.09	2.5	1.5	3.0	10	80	76.8	0.02048
T3C 160M1-2	11	19.34	2930	91.2	93.8	93.0	0.90	35.85	2.5	1.4	3.0	9.5	86	118.0	0.05178
T3C 160M2-2	15	26.18	2940	91.9	93.1	92.9	0.90	48.72	2.5	1.4	3.0	10	86	128.0	0.06206
T3C 160L-2	18.5	31.76	2940	92.4	93.5	93.3	0.91	60.09	2.5	1.4	3.0	9.5	86	144.00	0.07669
T3C 180M-2	22	38.5	2945	92.7	94.1	93.6	0.89	71.34	2.5	1.4	3.0	9	89	183.40	0.09665
T3C 200L1-2	30	52.1	2945	93.3	93.8	93.2	0.89	97.3	2.5	1.5	2.5	8.5	92	247.00	0.17351
T3C 200L2-2	37	64.0	2945	93.7	94.4	94.2	0.89	120.0	2.5	1.5	2.5	8.5	92	268.00	0.20008
T3C 225M-2	45	75.9	2950	94	94.6	94.1	0.91	145.7	2.5	1.4	2.5	8.5	92	369.00	0.34366
T3C 250M-2	55	93.5	2960	94.3	94.5	93.1	0.90	177.4	2.5	1.4	2.6	10	93	428.00	0.44434
T3C 280S-2	75	125.6	2960	94.7	94.9	93.7	0.91	242.0	2.5	1.8	2.6	10	94	587.30	0.82911
T3C 280M-2	90	150.3	2960	95	95.2	94.3	0.91	290.4	2.5	1.8	2.6	10	94	655.00	0.98168
T3C 315S-2	110	185.3	2960	95.2	95.5	94.6	0.90	354.9	2.0	1.4	2.3	7	96	980.00	1.70352
T3C 315M-2	132	221.9	2960	95.4	95.5	94.7	0.90	425.9	2.0	1.4	2.3	7	96	1100.00	1.93860
T3C 315L1-2	160	267.8	2960	95.8	95.8	94.5	0.90	516.2	2.0	1.4	2.3	7	99	1155.00	2.19758
T3C 315L2-2	200	334.8	2960	95.8	96.0	94.7	0.90	645.3	2.0	1.4	2.3	7	99	1260.00	2.55368
T3C 355M1-2	220	394.6	2960	95.8	96.2	94.8	0.84	709.8	2.0	1.5	2.3	6.5	103	1590.00	2.95585
T3C 355M2-2	250	448.4	2960	95.8	96.2	94.8	0.84	806.6	2.0	1.5	2.3	6.5	103	1650.00	3.14272
T3C 355L1-2	280	502.2	2960	95.8	96.2	94.8	0.84	903.4	2.0	1.5	2.3	6.5	103	1715.00	3.47911
T3C 355L2-2	315	558.3	2960	95.8	96.2	94.8	0.85	1016.3	2.0	1.5	2.3	6.5	103	1780.00	3.85287
T3C 802-4	0.75	1.90	1420	82.5	82.8	80.6	0.69	5.04	2.8	2.2	2.8	6.3	58	18.20	0.00155
T3C 90S-4	1.1	2.62	1430	84.1	84.6	83.2	0.72	7.35	2.8	2.2	2.8	6.8	61	23.00	0.00372
T3C 90L-4	1.5	3.63	1430	85.3	86.1	85.2	0.70	10.02	2.8	2.2	3.0	7.3	61	26.30	0.00469
T3C 100L1-4	2.2	4.52	1430	86.7	87.8	85.2	0.81	14.69	2.8	2.2	3.0	8	64	35.50	0.00922
T3C 100L2-4	3	6.33	1435	87.7	88.0	85.9	0.78	19.97	2.5	2.2	3.0	8.2	64	38.50	0.01195
T3C 112M-4	4	7.95	1440	88.6	88.9	87.5	0.82	26.53	2.5	2.2	3.0	8.6	65	47.00	0.01545
T3C 132S-4	5.5	10.67	1440	89.6	90.9	88.9	0.83	36.48	2.5	1.8	3.0	9	71	68.30	0.03397
T3C 132M-4	7.5	14.09	1440	90.4	91.3	91.2	0.85	49.74	2.5	1.6	3.0	9	71	79.00	0.04412
T3C 132M2-4	9.2	17.19	1440	90.9	91.8	90.5	0.85	61.01	2.5	1.6	3.0	9	71	87.50	0.04700
T3C 160M-4	11	20.68	1450	91.4	92.2	91.7	0.84	72.45	2.5	1.3	3.0	10	75	127.00	0.10355
T3C 160L-4	15	27.33	1450	92.1	92.9	92.2	0.86	98.8	2.5	1.3	2.8	8.5	75	160.00	0.13750
T3C 180M-4	18.5	33.5	1460	92.6	93.6	93.0	0.86	121.0	2.5	1.8	3.0	9	76	169.40	0.15530
T3C 180L-4	22	39.2	1460	93	93.7	92.9	0.87	143.9	2.5	1.8	3.0	10	76	196.00	0.19433
T3C 200L-4	30	57.1	1470	93.6	93.7	93.2	0.81	194.9	2.5	1.8	2.8	9	79	252.00	0.29441
T3C 225S-4	37	65.4	1470	93.9	95.2	94.3	0.87	240.4	2.5	1.4	2.5	9.2	81	324.50	0.57838
T3C 225M-4	45	79.3	1470	94.2	95.2	94.5	0.87	292.3	2.5	1.5	2.5	9	81	352.90	0.65309
T3C 250M-4	55	95.4	1470	94.6	95.2	94.5	0.88	357.3	2.5	1.8	2.5	8.5	83	427.40	0.76504
T3C 280S-4	75	131.0	1480	95	95.1	94.8	0.87	484.0	2.5	1.8	2.8	10	86	673.30	1.99603
T3C 280M-4	90	160.5	1480	95.2	95.1	95.0	0.85	580.7	2.5	1.8	2.8	10	86	692.00	2.18345
T3C 315S-4	110	189.1	1480	95.4	95.7	94.6	0.88	709.8	2.2	1.5	2.6	9	93	1027.00	3.71808
T3C 315M-4	132	226.5	1480	95.6	95.8	95.0	0.88	851.8	2.2	1.5	2.6	9	93	1155.00	4.29667
T3C 315L1-4	160	273.9	1480	95.8	96.0	95.1	0.88	1032.4	2.2	1.5	2.6	9	97	1240.00	5.10990
T3C 315L2-4	200	337.9	1480	96	96.2	95.3	0.89	1290.5	2.2	1.5	2.6	9	97	1400.00	6.17334
T3C 355M1-4	220	371.7	1480	96	96.2	95.3	0.89	1419.6	2.0	1.3	2.3	8	101	1560.00	7.04227
T3C 355M2-4	250	422.3	1480	96	96.3	95.4	0.89	1613.2	2.0	1.3	2.3	8	101	1600.00	7.63820
T3C 355L1-4	280	473.0	1480	96	96.4	95.4	0.89	1806.8	2.0	1.3	2.3	8	101	1650.00	8.31927
T3C 355L2-4	315	532.1	1480	96	96.3	95.5	0.89	2032.6	2.0	1.3	2.3	8	101	1700.00	9.34080
T3C 90S-6	0.75	2.05	935	78.9	79.6	77.2	0.67	7.66	2.0	1.8	2.2	5	57	21.50	0.00435
T3C 90L-6	1.1	2.97	940	81	81.5	80.2	0.66	11.18	2.3	1.8	2.2	5.2	57	25.50	0.00611

MEPS2(Aus) Efficiency Motors Technical Data

Model	Power (KW)	Speed (r/min)	FL Current (A)	Eff (%)	PF (COSΦ)	T _n (N.M)	I _{st} /I _n (Times)	T _{st} /T _n (Times)	T _{min} /T _n (Times)	T _{max} /T _n (Times)	W.T (kg)	Moment of inertia (kg·m ²)
2 POLE - 3000 RPM SYNCHRONOUS SPEED 50 Hz												
TCI 801-2	0.75	2848	1.77	80.5	0.76	2.51	5	2.4	2.1	2.8	16.00	0.00093
TCI 802-2	1.1	2846	2.43	82.8	0.79	3.69	5	2.4	2.1	2.9	17.00	0.00128
TCI 90S-2	1.5	2852	3.18	84.1	0.81	5.02	5	2.4	2	2.7	21.00	0.00224
TCI 90L-2	2.2	2845	4.47	85.6	0.83	7.38	5.5	2.4	2.1	2.7	22.00	0.00279
TCI 100L-2	3	2851	6.02	86.7	0.83	10.05	5.5	2.3	2	2.8	35.00	0.00496
TCI 112M-2	4	2910	7.41	87.6	0.89	13.13	6	2.4	2	2.7	47.00	0.00744
TCI 132S1-2	5.5	2905	10.42	88.6	0.86	18.08	6	2.3	2	2.9	61.00	0.01468
TCI 132S2-2	7.5	2910	14.06	89.5	0.86	24.61	6.4	2.3	2	2.8	66.00	0.01903
TCI 160M1-2	11	2920	19.05	90.6	0.92	35.97	6.3	2.4	2.1	3	115.00	0.05384
TCI 160M2-2	15	2918	25.50	91.3	0.93	49.09	6.8	2.4	2.1	3	133.00	0.06617
TCI 160L-2	18.5	2922	31.28	91.8	0.93	60.46	7	2.4	2.1	2.9	148.00	0.07669
TCI 180M-2	22	2930	38.70	92.2	0.89	71.70	7.2	2.3	2	2.8	174.00	0.08888
TCI 200L1-2	30	2925	51.79	92.9	0.9	97.94	7	2.4	2	2.7	233.00	0.17351
TCI 200L2-2	37	2930	63.60	93.3	0.9	120.59	7.2	2.3	2	2.7	248.00	0.19122
TCI 225M-2	45	2930	77.02	93.7	0.9	146.66	7	2.3	2	2.8	321.00	0.28545
TCI 250M-2	55	2940	93.84	94	0.9	178.64	7.8	2.3	1.9	2.7	420.00	0.43328
TCI 280S-2	75	2940	125.75	94.6	0.91	243.60	7.8	2.2	1.9	2.7	568.00	0.90363
TCI 280M-2	90	2940	150.58	94.8	0.91	292.33	7.7	2.2	1.9	2.6	639.00	1.05619
TCI 315S-2	110	2940	185.50	95.1	0.9	357.29	7.7	2	1.8	2.3	929.00	1.70352
TCI 315M-2	132	2940	219.46	95.4	0.91	428.74	7.6	2	1.8	2.3	1008.00	1.93860
TCI 315L1-2	160	2945	268.69	95.5	0.9	518.81	7.8	2	1.8	2.3	1062.00	2.19758
TCI 315L2-2	200	2945	339.64	95.5	0.89	648.51	7.9	2	1.8	2.3	1132.00	2.55368
TCI 355M-2	250	2945	419.83	95.5	0.9	810.64	7.8	2	1.8	2.3	1650.00	3.14272
TCI 355L-2	315	2945	534.93	95.5	0.89	1021.40	7.8	2	1.8	2.3	1780.00	3.85287
4 POLE - 1500 RPM SYNCHRONOUS SPEED 50 Hz												
TCI 802-4	0.75	1420	1.85	82.2	0.71	5.04	5.4	2.3	2.1	2.9	18.00	0.00237
TCI 90S-4	1.1	1425	2.71	83.8	0.7	7.37	5.3	2.3	2.1	2.7	22.00	0.00372
TCI 90L-4	1.5	1420	3.75	85	0.68	10.09	5.5	2.4	2	2.7	26.00	0.00469
TCI 100L1-4	2.2	1430	4.54	86.4	0.81	14.69	6	2.4	2.1	2.9	36.00	0.00922
TCI 100L2-4	3	1430	6.35	87.4	0.78	20.03	6	2.4	2	2.8	37.00	0.01195
TCI 112M-4	4	1435	7.97	88.3	0.82	26.62	6.3	2.5	2	3	51.00	0.01545
TCI 132S-4	5.5	1430	10.85	89.2	0.82	36.73	6.5	2.3	2	2.8	65.00	0.03397
TCI 132M-4	7.5	1430	14.65	90.1	0.82	50.08	6.4	2.3	2	2.7	77.00	0.04412
TCI 160M-4	11	1440	19.60	91	0.89	72.95	6.8	2.5	2.1	2.8	127.00	0.09681
TCI 160L-4	15	1445	26.21	91.8	0.9	99.13	6.7	2.4	2.1	2.9	142.00	0.12402
TCI 180M-4	18.5	1445	32.54	92.2	0.89	122.26	7.2	2.4	2.1	3	160.00	0.16394
TCI 180L-4	22	1460	38.53	92.6	0.89	143.89	7.3	2.3	2	3	185.00	0.18469
TCI 200L-4	30	1460	54.02	93.2	0.86	196.22	7.6	2.4	2	2.7	243.00	0.29441
TCI 225S-4	37	1470	66.34	93.6	0.86	240.36	7.5	2.4	2	2.7	317.00	0.57838
TCI 225M-4	45	1480	79.51	93.9	0.87	290.35	7.3	2.3	2	2.8	341.00	0.69748
TCI 250M-4	55	1480	96.87	94.2	0.87	354.87	7.4	2.4	1.9	2.7	422.00	0.76504
TCI 280S-4	75	1480	131.39	94.7	0.87	483.92	7.5	2.2	1.9	2.6	572.00	1.74089
TCI 280M-4	90	1480	157.17	95	0.87	580.70	7.7	2.2	1.9	2.6	650.00	2.03766
TCI 315S-4	110	1480	185.11	95.3	0.9	709.75	7.8	2	1.8	2.3	949.00	3.71808
TCI 315M-4	132	1480	219.23	95.5	0.91	851.69	7.8	2	1.8	2.3	1049.00	4.29667
TCI 315L1-4	160	1480	265.18	95.7	0.91	1032.36	7.9	2	1.8	2.3	1108.00	5.10990
TCI 315L2-4	200	1480	335.16	95.7	0.9	1290.45	7.7	2	1.8	2.3	1222.00	6.17334
TCI 355M-4	250	1480	423.66	95.7	0.89	1613.06	7.9	2	1.8	2.3	1540.00	7.63820
TCI 355L-4	315	1480	527.88	95.7	0.9	2032.45	7.8	2	1.8	2.3	1780.00	9.34087

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6 POLE - 1000 RPM SYNCHRONOUS SPEED 50 Hz												
TCI 90S-6	0.75	935	1.96	77.7	0.71	7.66	5.3	2.2	2	2.7	20.00	0.00435
TCI 90L-6	1.1	935	2.69	79.9	0.74	11.23	5	2.3	2.1	2.6	29.00	0.00611
TCI 100L-6	1.5	940	3.59	81.5	0.74	15.24	4.9	2.3	2.1	2.7	34.00	0.00972
TCI 112M-6	2.2	940	5.01	83.4	0.76	22.35	5.7	2.3	2.1	2.9	40.00	0.01637
TCI 132S-6	3	940	6.46	84.9	0.79	30.48	6.3	2.4	2.2	2.8	65.00	0.03223
TCI 132M1-6	4	945	8.28	86.1	0.81	40.42	6.2	2.5	2	2.8	67.00	0.04338
TCI 132M2-6	5.5	945	11.21	87.4	0.81	55.58	6.8	2.3	1.9	2.8	68.00	0.05443
TCI 160M-6	7.5	955	16.09	88.5	0.76	74.99	7	2.4	1.9	2.7	122.00	0.10570
TCI 160L-6	11	960	22.96	89.8	0.77	109.42	7.3	2.5	2	2.8	146.00	0.13913
TCI 180L-6	15	960	28.08	90.7	0.85	149.21	7.2	2.3	2.1	2.9	185.00	0.27214
TCI 200L1-6	18.5	965	33.24	91.3	0.88	183.07	6.9	2.4	2.1	3.2	234.00	0.38345
TCI 200L2-6	22	965	39.31	91.8	0.88	217.70	7.3	2.3	1.9	3.1	252.00	0.42742
TCI 225M-6	30	975	54.43	92.5	0.86	293.82	7.4	2.2	1.9	2.7	344.00	0.67058
TCI 250M-6	37	975	66.77	93	0.86	362.38	7.5	2.3	2.1	2.7	404.00	1.15837
TCI 280S-6	45	980	85.76	93.5	0.81	438.49	7.7	2.3	2	2.8	507.00	1.94195
TCI 280M1-6	55	980	104.37	93.9	0.81	535.93	7.7	2.2	1.9	2.7	598.00	2.20792
TCI 315S-6	75	980	128.85	94.4	0.89	730.81	7.9	2.1	1.9	2.5	809.00	3.80317
TCI 315M-6	90	980	152.25	94.8	0.9	876.98	8	2	1.8	2.3	962.00	4.45274
TCI 315L1-6	110	980	185.50	95.1	0.9	1071.86	7.7	2	1.8	2.3	989.00	5.53956
TCI 315L2-6	132	980	224.40	95.4	0.89	1286.23	.8	2	1.8	2.3	1082.00	6.62638
TCI 355M1-6	160	980	265.46	95.6	0.91	1559.07	7.6	2	1.8	2.3	1580.00	8.97637
TCI 355M2-6	200	980	335.51	95.6	0.9	1948.84	7.8	2	1.8	2.3	1720.00	11.00176
TCI 355L-6	250	980	424.10	95.6	0.89	2436.05	7.8	2	1.8	2.3	1880.00	13.56011
8 POLE - 750 RPM SYNCHRONOUS SPEED 50 Hz												
TCI 100L1-8	0.75	690	2.13	73.5	0.69	10.38	4.5	2.2	2	2.5	32.00	0.00925
TCI 100L2-8	1.1	690	3.02	76.3	0.69	15.22	4.5	2.3	2.1	2.6	35.00	0.01114
TCI 112M1-8	1.5	695	3.95	78.4	0.7	20.61	4.8	2.3	2.1	2.6	42.00	0.01722
TCI 132S-8	2.2	700	5.61	80.9	0.7	30.01	5	2.3	2.1	2.7	68.00	0.04513
TCI 132M-8	3	700	7.37	82.7	0.71	40.93	5.1	2.4	2.2	2.7	77.00	0.05259
TCI 160M1-8	4	710	10.88	84.2	0.63	53.80	5.3	2.5	2	2.8	106.00	0.09832
TCI 160M2-8	5.5	710	14.69	85.8	0.63	73.97	5.5	2.3	1.9	2.6	113.00	0.10938
TCI 160L-8	7.5	715	18.53	87.2	0.67	100.17	6	2.4	1.9	2.7	134.00	0.13913
TCI 180L-8	11	720	23.84	88.8	0.75	145.89	6	2.3	2	2.8	177.50	0.27973
TCI 200L-8	15	720	30.84	90	0.78	198.94	6.4	2.2	2	2.9	232.50	0.40544
TCI 2225S-8	18.5	725	38.74	90.7	0.76	243.67	6.4	2.2	2	3.2	315.00	0.63789
TCI 2225M-8	22	725	43.52	91.2	0.8	289.77	7	2.1	1.9	3.1	345.00	0.73596
TCI 250M-8	30	730	61.86	92.1	0.76	392.44	7	2.1	1.9	2.7	421.00	1.24135
TCI 280S-8	37	730	73.86	92.7	0.78	484.01	7.5	2.1	1.8	2.5	612.00	2.30705
TCI 280M1-8	45	735	89.35	93.2	0.78	584.65	7.5	2	1.8	2.5	668.00	2.72950
TCI 315S-8	55	740	107.24	93.7	0.79	709.75	7.5	2	1.8	2.4	918.00	3.89374
TCI 315M-8	75	740	145.16	94.4	0.79	967.83	7.7	2	1.8	2.3	1078.00	5.26785
TCI 315L1-8	90	740	171.47	94.7	0.8	1161.40	7.8	2	1.8	2.2	1158.00	6.26411
TCI 315L2-8	110	745	208.69	95.1	0.8	1409.96	7.8	2	1.8	2.3	1258.00	7.44150
TCI 355M1-8	132	745	237.75	95.4	0.84	1691.96	7.9	2	1.8	2.3	1562.00	10.82687
TCI 355M2-8	160	745	287.28	95.7	0.84	2050.86	7.8	2	1.8	2.3	1657.00	12.26856
TCI 355L-8	200	745	350.75	95.7	0.86	2563.57	7.7	2	1.8	2.3	1817.00	15.02087

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2 POLE - 3000 RPM SYNCHRONOUS SPEED 50 Hz										
TCP 801-2	0.75	2848	1.70	82.9	0.77	2.51	5	2.4	2.1	2.8
TCP 802-2	1.1	2846	2.41	84.5	0.78	3.69	5	2.4	2.1	2.9
TCP 90S-2	1.5	2852	3.18	86.2	0.79	5.02	5	2.4	2	2.7
TCP 90L-2	2.2	2845	4.54	87.5	0.8	7.38	5.5	2.4	2.1	2.7
TCP 100L-2	3	2851	6.04	88.5	0.81	10.05	5.5	2.3	2	2.8
TCP 112M-2	4	2910	7.98	89.3	0.81	13.13	6	2.4	2	2.7
TCP 132S1-2	5.5	2905	10.49	90.1	0.84	18.08	6	2.3	2	2.9
TCP 132S2-2	7.5	2910	14.01	90.9	0.85	24.61	6.4	2.3	2	2.8
TCP 160M1-2	11	2920	19.86	91.9	0.87	35.97	6.3	2.4	2.1	3
TCP 160M2-2	15	2918	26.90	92.5	0.87	49.09	6.8	2.4	2.1	3
TCP 160L-2	18.5	2922	32.30	92.9	0.89	60.46	7	2.4	2.1	2.9
TCP 180M-2	22	2930	38.24	93.3	0.89	71.70	7.2	2.3	2	2.8
TCP 200L1-2	30	2925	51.24	93.9	0.9	97.94	7	2.4	2	2.7
TCP 200L2-2	37	2930	62.99	94.2	0.9	120.59	7.2	2.3	2	2.7
TCP 225M-2	45	2930	75.45	94.6	0.91	146.66	7	2.3	2	2.8
TCP 250M-2	55	2940	91.93	94.9	0.91	178.64	7.8	2.3	1.9	2.7
TCP 280S-2	75	2940	123.34	95.4	0.92	243.60	7.8	2.2	1.9	2.7
TCP 280M-2	90	2940	146.26	95.5	0.93	292.33	7.7	2.2	1.9	2.6
TCP 315S-2	110	2940	184.15	95.8	0.9	357.29	7.7	2	1.8	2.3
TCP 315M-2	132	2040	217.87	96.1	0.91	617.90	7.6	2	1.8	2.3
TCP 315L1-2	160	2945	267.01	96.1	0.9	518.81	7.8	2	1.8	2.3
TCP 315L2-2	200	2945	337.52	96.1	0.89	648.51	7.9	2	1.8	2.3
TCP 355M-2	250	2945	417.21	96.1	0.9	810.64	7.8	2	1.8	2.3
TCP 355L-2	315	2945	531.59	96.1	0.89	1021.40	7.8	2	1.8	2.3
4 POLE - 1500 RPM SYNCHRONOUS SPEED 50 Hz										
TCP 802-4	0.75	1420	1.64	84.5	0.78	5.04	5.4	2.3	2.1	2.9
TCP 90S-4	1.1	1425	2.37	85.9	0.78	7.37	5.3	2.3	2.1	2.7
TCP 90L-4	1.5	1420	3.11	87	0.8	10.09	5.5	2.4	2	2.7
TCP 100L1-4	2.2	1430	4.50	88.2	0.8	14.69	6	2.4	2.1	2.9
TCP 100L2-4	3	1430	6.07	89.1	0.8	20.03	6	2.4	2	2.8
TCP 112M-4	4	1435	7.83	89.9	0.82	26.62	6.3	2.5	2	3
TCP 132S-4	5.5	1430	10.55	90.7	0.83	36.73	6.5	2.3	2	2.8
TCP 132M-4	7.5	1430	13.60	91.5	0.87	50.08	6.4	2.3	2	2.7
TCP 160M-4	11	1440	19.79	92.2	0.87	72.95	6.8	2.5	2.1	2.8
TCP 160L-4	15	1445	26.48	92.9	0.88	99.13	6.7	2.4	2.1	2.9
TCP 180M-4	18.5	1445	32.52	93.3	0.88	122.26	7.2	2.4	2.1	3
TCP 180L-4	22	1460	37.69	93.6	0.9	143.89	7.3	2.3	2	3
TCP 200L-4	30	1460	51.65	94.2	0.89	196.22	7.6	2.4	2	2.7
TCP 225S-4	37	1470	63.50	94.5	0.89	240.36	7.5	2.4	2	2.7
TCP 225M-4	45	1480	76.98	94.8	0.89	290.35	7.3	2.3	2	2.8
TCP 250M-4	55	1480	91.83	95	0.91	354.87	7.4	2.4	1.9	2.7
TCP 280S-4	75	1480	125.62	94.7	0.91	483.92	7.5	2.2	1.9	2.6
TCP 280M-4	90	1480	148.63	95	0.92	580.70	7.7	2.2	1.9	2.6
TCP 315S-4	110	1480	184.73	95.5	0.9	709.75	7.8	2	1.8	2.3
TCP 315M-4	132	1480	218.78	95.7	0.91	851.69	7.8	2	1.8	2.3
TCP 315L1-4	160	1480	264.35	96	0.91	1032.36	7.9	2	1.8	2.3
TCP 315L2-4	200	1480	333.77	96.1	0.9	1290.45	7.7	2	1.8	2.3
TCP 355M-4	250	1480	421.02	96.3	0.89	1613.06	7.9	2	1.8	2.3
TCP 355L-4	315	1480	524.59	96.3	0.9	2032.45	7.8	2	1.8	2.3

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Model	Power (KW)	Speed (r/min)	FL Current (A)	Eff (%)	PF (COS ϕ)	T _n (N.M)	I _s /I _n (Times)	T _s /T _n (Times)	T _{min} /T _n (Times)	T _{max} /T _n (Times)
6 POLE - 1000 RPM SYNCHRONOUS SPEED 50 Hz										
TCP 90S-6	0.75	935	1.87	80.4	0.72	7.66	5.3	2.2	2	2.7
TCP 90L-6	1.1	935	2.68	82.4	0.72	11.23	5	2.3	2.1	2.6
TCP 100L-6	1.5	940	3.54	83.8	0.73	15.24	4.9	2.3	2.1	2.7
TCP 112M-6	2.2	940	5.09	85.5	0.73	22.35	5.7	2.3	2.1	2.9
TCP 132S-6	3	940	6.83	86.9	0.73	30.48	6.3	2.4	2.2	2.8
TCP 132M1-6	4	945	8.88	87.9	0.74	40.42	6.2	2.5	2	2.8
TCP 132M2-6	5.5	945	11.72	89.1	0.76	55.58	6.8	2.3	1.9	2.8
TCP 160M-6	7.5	955	15.81	90.1	0.76	74.99	7	2.4	1.9	2.7
TCP 160L-6	11	960	22.32	91.2	0.78	109.42	7.3	2.5	2	2.8
TCP 180L-6	15	960	29.79	92	0.79	149.21	7.2	2.3	2.1	2.9
TCP 200L1-6	18.5	965	34.78	92.5	0.83	183.07	6.9	2.4	2.1	3.2
TCP 200L2-6	22	965	41.18	92.9	0.83	217.70	7.3	2.3	1.9	3.1
TCP 225M-6	30	975	55.74	93.6	0.83	293.82	7.4	2.2	1.9	2.7
TCP 250M-6	37	975	66.84	94	0.85	362.38	7.5	2.3	2.1	2.7
TCP 280S-6	45	980	80.01	94.4	0.86	438.49	7.7	2.3	2	2.8
TCP 280M1-6	55	980	96.25	94.8	0.87	535.93	7.7	2.2	1.9	2.7
TCP 315S-6	75	980	127.77	95.2	0.89	730.81	7.9	2.1	1.9	2.5
TCP 315M-6	90	980	151.14	95.5	0.9	876.98	8	2	1.8	2.3
TCP 315L1-6	110	980	184.15	95.8	0.9	1071.86	7.7	2	1.8	2.3
TCP 315L2-6	132	980	222.76	96.1	0.89	1286.23	8	2	1.8	2.3
TCP 355M1-6	160	980	263.80	96.2	0.91	1559.07	7.6	2	1.8	2.3
TCP 355M2-6	200	980	333.42	96.2	0.9	1948.84	7.8	2	1.8	2.3
TCP 355L-6	250	980	421.46	96.2	0.89	2436.05	7.8	2	1.8	2.3
8 POLE - 750 RPM SYNCHRONOUS SPEED 50 Hz										
TCP 100L1-8	0.75	690	2.05	76.5	0.69	10.38	4.5	2.2	2	2.5
TCP 100L2-8	1.1	690	2.91	79.1	0.69	15.22	4.5	2.3	2.1	2.6
TCP 112M1-8	1.5	695	3.82	81	0.7	20.61	4.8	2.3	2.1	2.6
TCP 132M-8	2.2	700	5.45	83.3	0.7	30.01	5	2.3	2.1	2.7
TCP 132M-6	3	700	7.18	84.9	0.71	40.93	5.1	2.4	2.2	2.7
TCP 160M1-8	4	710	9.43	86.2	0.71	53.80	5.3	2.5	2	2.8
TCP 160M2-8	5.5	710	12.57	87.7	0.72	73.97	5.5	2.3	1.9	2.6
TCP 160L-8	7.5	715	16.91	88.9	0.72	100.17	6	2.4	1.9	2.7
TCP 180L-8	11	720	24.09	90.3	0.73	145.89	6	2.3	2	2.8
TCP 200L-8	15	720	32.45	91.4	0.73	198.94	6.4	2.2	2	2.9
TCP 2225S-8	18.5	725	39.22	92	0.74	243.67	6.4	2.2	2	3.2
TCP 2225M-8	22	725	45.82	92.4	0.75	289.77	7	2.1	1.9	3.1
TCP 250M-8	30	730	61.95	93.2	0.75	392.44	7	2.1	1.9	2.7
TCP 280S-8	37	730	74.02	93.7	0.77	484.01	7.5	2.1	1.8	2.5
TCP 280M1-8	45	735	89.55	94.2	0.77	584.65	7.5	2	1.8	2.5
TCP 315S-8	55	740	106.22	94.6	0.79	709.75	7.5	2	1.8	2.4
TCP 315M-8	75	740	143.94	95.2	0.79	967.83	7.7	2	1.8	2.3
TCP 315L1-8	90	740	170.03	95.5	0.8	1161.40	7.8	2	1.8	2.2
TCP 315L2-8	110	745	207.17	95.8	0.8	1409.96	7.8	2	1.8	2.3
TCP 355M1-8	132	745	236.02	96.1	0.84	1691.96	7.9	2	1.8	2.3
TCP 355M2-8	160	745	285.49	96.3	0.84	2050.86	7.8	2	1.8	2.3
TCP 355L-8	200	745	348.57	96.3	0.86	2563.57	7.7	2	1.8	2.3



Serie Fire Pump Motors' Main Performance Parameters (IEC)

Serial NO.	Model NO.	Volts	Output (KW)	Output (HP)	Hz /DC	Locked current A(standard) 400V	Locked torque multiple (standard)	Maximum torque multiple (standard)	Minimum torque multiple (standard)	INS class	RPM	The test environment temperature
1	T 801-2	380-415V	0.75	1.0	50	19.0	175	250	120	F	2848	50℃
2	T 802-2	380-415V	1.1	1.5	50	25.7	175	250	120	F	2846	50℃
3	T 803-2	380-415V	1.5	2.0	50	32.3	170	240	120	F	2852	50℃
4	T 90S-2	380-415V	1.5	2.0	50	32.3	170	240	120	F	2852	50℃
5	T 90L1-2	380-415V	2.2	3.0	50	40.9	160	230	110	F	2845	50℃
6	T 90L2-2	380-415V	3	4.0	50	49.4	155	220	105	F	2851	50℃
7	T 100L-2	380-415V	3	4.0	50	49.4	155	220	105	F	2851	50℃
8	T 100L2-2	380-415V	4	5.5	50	61.8	145	215	105	F	2910	50℃
9	T 112M-2	380-415V	4	5.5	50	61.8	145	215	105	F	2910	50℃
10	T 112L-2	380-415V	5.5	7.5	50	79.8	140	200	100	F	2905	50℃
11	T 132S1-2	380-415V	5.5	7.5	50	79.8	140	200	100	F	2905	50℃
12	T 132S2-2	380-415V	7.5	10.0	50	101.7	135	200	100	F	2910	50℃
13	T 132M1-2	380-415V	9.2	12.0	50	118.8	130	200	100	F	2910	50℃
14	T 132M2-2	380-415V	11	15.0	50	146.3	130	200	100	F	2920	50℃
15	T 160M1-2	380-415V	11	15.0	50	146.3	130	200	100	F	2920	50℃
16	T 160M2-2	380-415V	15	20.0	50	184.3	130	200	100	F	2918	50℃
17	T 160L-2	380-415V	18.5	25.0	50	230.9	130	200	100	F	2922	50℃
18	T 180M-2	380-415V	22	30.0	50	274.6	130	200	100	F	2930	50℃
19	T 200L1-2	380-415V	30	40.0	50	367.7	125	200	100	F	2925	50℃
20	T 200L2-2	380-415V	37	50.0	50	457.9	120	200	100	F	2930	50℃
21	T 225M-2	380-415V	45	60.0	50	549.1	120	200	100	F	2930	50℃
22	T 250M-2	380-415V	55	75.0	50	685.9	105	200	95	F	2940	50℃
23	T 280S-2	380-415V	75	100.0	50	916.8	105	200	95	F	2940	50℃
24	T 280M-2	380-415V	90	125.0	50	1146.7	100	200	90	F	2940	50℃
25	T 315S-2	380-415V	110	150.0	50	1369.0	100	200	90	F	2940	50℃
26	T 315M-2	380-415V	132	175.0	50	1599.8	100	200	90	F	2940	50℃
27	T 315L1 -2	380-415V	160	215.0	50	1900.0	90	175	65	F	2945	50℃
28	T 315L2 -2	380-415V	200	270.0	50	2636.3	70	175	65	F	2945	50℃
29	T 355M-2	380-415V	250	330.0	50	3125.5	70	175	65	F	2945	50℃
30	T 355L-2	380-415V	315	420.0	50	4075.5	70	175	65	F	2945	50℃
31	T 802-4	380-415V	0.75	1.0	50	19.0	275	300	190	F	1420	50℃
32	T 803-4	380-415V	1.1	1.5	50	25.7	250	280	175	F	1425	50℃
33	T 90S-4	380-415V	1.1	1.5	50	25.7	250	280	175	F	1425	50℃
34	T 90L-4	380-415V	1.5	2.0	50	32.3	235	270	165	F	1420	50℃
35	T 90L2-4	380-415V	2.2	3.0	50	40.9	215	250	150	F	1430	50℃
36	T 100L1-4	380-415V	2.2	3.0	50	40.9	215	250	150	F	1430	50℃
37	T 100L2-4	380-415V	3	4.0	50	49.4	200	230	140	F	1430	50℃
38	T 100L3-4	380-415V	4	5.5	50	61.8	180	225	130	F	1435	50℃
39	T 112M-4	380-415V	4	5.5	50	61.8	180	225	130	F	1435	50℃
40	T 112L-4	380-415V	5.5	7.5	50	79.8	175	215	120	F	1430	50℃
41	T 132S-4	380-415V	5.5	7.5	50	79.8	175	215	120	F	1430	50℃
42	T 132M-4	380-415V	7.5	10.0	50	101.7	165	200	115	F	1430	50℃
43	T 132L1-4	380-415V	9.2	12.0	50	118.8	160	200	115	F	1430	50℃
44	T 132L2-4	380-415V	11	15.0	50	146.3	160	200	110	F	1440	50℃
45	T 160M-4	380-415V	11	15.0	50	146.3	160	200	110	F	1440	50℃
46	T 160L-4	380-415V	15	20.0	50	184.3	150	200	105	F	1445	50℃
47	T 180M-4	380-415V	18.5	25.0	50	230.9	150	200	105	F	1445	50℃
48	T 180L-4	380-415V	22	30.0	50	274.6	150	200	105	F	1460	50℃
49	T 200L-4	380-415V	30	40.0	50	367.7	140	200	100	F	1460	50℃
50	T 225S-4	380-415V	37	50.0	50	457.9	140	200	100	F	1470	50℃



Serie Fire Pump Motors' Main Performance Parameters (IEC)

Serial NO.	Model NO.	Volts	Output (KW)	Output (HP)	Hz /DC	Locked current A(standard) 400V	Locked torque multiple (standard)	Maximum torque multiple (standard)	Minimum torque multiple (standard)	INS class	RPM	The test environment temperature
51	T 225M-4	380-415V	45	60.0	50	549.1	140	200	100	F	1480	50°C
52	T 250M-4	380-415V	55	75.0	50	685.9	140	200	100	F	1480	50°C
53	T 280S-4	380-415V	75	100.0	50	916.8	125	200	100	F	1480	50°C
54	T 280M-4	380-415V	90	125.0	50	1146.7	110	200	100	F	1480	50°C
55	T 315S-4	380-415V	110	150.0	50	1369.0	110	200	100	F	1480	50°C
56	T 315M-4	380-415V	132	175.0	50	1599.8	100	200	90	F	1480	50°C
57	T 315L1-4	380-415V	160	215.0	50	1900.0	90	175	75	F	1480	50°C
58	T 315L2-4	380-415V	200	270.0	50	2636.3	80	175	75	F	1480	50°C
59	T 355M1-4	380-415V	220	300.0	50	2874.7	80	175	75	F	1480	50°C
60	T 355M2-4	380-415V	250	330.0	50	3125.5	80	175	75	F	1480	50°C
61	T 355L1-4	380-415V	280	375.0	50	3604.3	80	175	75	F	1480	50°C
62	T 355L2-4	380-415V	315	420.0	50	4075.5	80	175	75	F	1480	50°C
63	T 355L3-4	380-415V	355	475.0	50	4563.8	80	175	75	F	1480	50°C
64	T 803-6	380-415V	0.75	1.0	50	19.0	170	265	120	F	935	50°C
65	T 90S-6	380-415V	0.75	1.0	50	19.0	170	265	120	F	935	50°C
66	T 90L-6	380-415V	1.1	1.5	50	25.7	165	250	115	F	935	50°C
67	T 100L-6	380-415V	1.5	2.0	50	32.3	160	240	110	F	940	50°C
68	T 112M-6	380-415V	2.2	3.0	50	40.9	155	230	110	F	940	50°C
69	T 112M1-6	380-415V	3	4.0	50	49.4	150	220	105	F	940	50°C
70	T 112M2-6	380-415V	4	5.5	50	61.8	150	215	105	F	940	50°C
71	T 132S-6	380-415V	3	4.0	50	49.4	150	220	105	F	940	50°C
72	T 132M1-6	380-415V	4	5.5	50	61.8	150	215	105	F	945	50°C
73	T 132M2-6	380-415V	5.5	7.5	50	79.8	150	205	105	F	945	50°C
74	T 132M3-6	380-415V	7.5	10.0	50	101.7	150	200	105	F	945	50°C
75	T 160M-6	380-415V	7.5	10.0	50	101.7	150	200	105	F	955	50°C
76	T 160L-6	380-415V	11	15.0	50	146.3	140	200	100	F	960	50°C
77	T 180L-6	380-415V	15	20.0	50	184.3	135	200	100	F	960	50°C
78	T 200L1-6	380-415V	18.5	25.0	50	230.9	135	200	100	F	965	50°C
79	T 200L2-6	380-415V	22	30.0	50	274.6	135	200	100	F	965	50°C
80	T 225M-6	380-415V	30	40.0	50	367.7	135	200	100	F	975	50°C
81	T 250M-6	380-415V	37	50.0	50	457.9	135	200	100	F	975	50°C
82	T 280S-6	380-415V	45	60.0	50	549.1	135	200	100	F	980	50°C
83	T 280M-6	380-415V	55	75.0	50	685.9	135	200	100	F	980	50°C
84	T 315S-6	380-415V	75	100.0	50	916.8	125	200	100	F	980	50°C
85	T 315M-6	380-415V	90	125.0	50	1146.7	125	200	100	F	980	50°C
86	T 315L1-6	380-415V	110	150.0	50	1369.0	120	200	100	F	980	50°C
87	T 315L2-6	380-415V	132	175.0	50	1599.8	120	200	100	F	980	50°C
88	T 355M1-6	380-415V	160	215.0	50	1900.0	100	175	90	F	980	50°C
89	T 355M2-6	380-415V	200	270.0	50	2636.3	100	175	90	F	980	50°C
90	T 355L1-6	380-415V	220	300.0	50	2874.7	100	175	90	F	980	50°C
91	T 355L2-6	380-415V	250	330.0	50	3125.5	100	175	90	F	980	50°C



DC Serie Fire Pump Motors' Main Performance Parameters(NEMA 415V 50HZ)

Serial NO.	Model NO.	Current (A) 380V	Current (A) 415V	Output (HP)	Hz/DC	Locked current A(standard) 380V	Locked current A(standard) 415V	Locked torque multiple (standard) %	Maximum torque multiple (standard) %	Minimum torque multiple (standard) %	Service factor	INS class	RPM	EFF %	Power factor
1	TDC254T15U2B	21.7	19.9	15	50	154	141	130	200	100	1.15	F	2920	87.6	0.9
2	TDC256T20U2B	28.5	26.1	20	50	194	177	130	200	100	1.15	F	2920	88.7	0.9
3	TDC284TS25U2B	35.4	32.5	25	50	243	222	130	200	100	1.15	F	2930	89.3	0.9
4	TDC286TS30U2B	42.3	38.7	30	50	289	264	130	200	100	1.15	F	2930	89.9	0.9
5	TDC286TS40U2B	55.2	50.6	40	50	387	354	125	200	100	1.15	F	2930	90.7	0.91
6	TDC324TS40U2B	55.2	50.6	40	50	387	354	125	200	100	1.15	F	2930	90.7	0.91
7	TDC324TS50U2B	68.7	62.9	50	50	482	441	120	200	100	1.15	F	2930	91.2	0.91
8	TDC326TS50U2B	68.7	62.9	50	50	482	441	120	200	100	1.15	F	2930	91.2	0.91
9	TDC326TS60U2B	81.9	75.0	60	50	578	529	120	200	100	1.15	F	2930	91.7	0.91
10	TDC364TS60U2B	81.9	75.0	60	50	578	529	120	200	100	1.15	F	2930	91.7	0.91
11	TDC364TS75U2B	100.9	92.4	75	50	722	661	105	200	95	1.15	F	2940	92.1	0.92
12	TDC365TS75U2B	100.9	92.4	75	50	722	661	105	200	95	1.15	F	2940	92.1	0.92
13	TDC365TS100U2B	133.6	122.3	100	50	965	883	105	200	95	1.15	F	2940	92.7	0.92
14	TDC405TS100U2B	133.6	122.3	100	50	965	883	105	200	95	1.15	F	2940	92.7	0.92
15	TDC404TS125U2B	166.5	152.4	125	50	1207	1105	100	200	90	1.15	F	2940	93	0.92
16	TDC405TS150U2B	197.0	180.4	150	50	1441	1319	100	200	90	1.15	F	2940	93.3	0.93
17	TDC444TS125U2B	164.7	150.8	125	50	1207	1105	100	200	90	1.15	F	2940	93	0.93
18	TDC445TS150U2B	197.0	180.4	150	50	1441	1319	100	200	90	1.15	F	2940	93.3	0.93
19	TDC444TS200U2B	261.3	239.2	200	50	1927	1764	70	175	65	1.15	F	2940	93.8	0.93
20	TDC447TS200U2B	261.3	239.2	200	50	1927	1764	70	175	65	1.15	F	2940	93.8	0.93
21	TDC447TS300U2B	391.1	358.1	300	50	3026	2770	70	175	65	1.15	F	2940	94	0.93
22	TDC447TS350U2B	456.2	417.8	350	50	3542	3243	70	175	65	1.15	F	2940	94	0.93
23	TDC449TS250U2B	325.9	298.4	250	50	2534	2320	70	175	65	1.15	F	2940	94	0.93
24	TDC449TS300U2B	391.1	358.1	300	50	3026	2770	70	175	65	1.15	F	2940	94	0.93
25	TDC449TS350U2B	456.2	417.8	350	50	3542	3243	70	175	65	1.15	F	2940	94	0.93
26	TDC449TS400U2B	521.4	477.4	400	50	4046	3704	70	175	65	1.15	F	2940	94	0.93
27	TDC 254T15U4B	21.9	20.1	15	50	154	141	160	200	110	1.15	F	1440	87.6	0.89
28	TDC 256T20U4B	28.9	26.4	20	50	194	177	150	200	105	1.15	F	1445	88.7	0.89
29	TDC 284T25U4B	35.8	32.8	25	50	243	222	150	200	105	1.15	F	1450	89.3	0.89
30	TDC 286T30U4B	42.7	39.1	30	50	289	264	150	200	105	1.15	F	1460	89.9	0.89
31	TDC 324T40U4B	56.5	51.7	40	50	387	354	140	200	100	1.15	F	1460	90.7	0.89
32	TDC 326T50U4B	70.2	64.3	50	50	482	441	140	200	100	1.15	F	1470	91.2	0.89
33	TDC364T60U4B	83.8	76.7	60	50	578	529	140	200	100	1.15	F	1480	91.7	0.89
34	TDC365T75U4B	103.1	94.4	75	50	722	661	140	200	100	1.15	F	1480	92.1	0.9
35	TDC405T100U4B	136.6	125.1	100	50	965	883	125	200	100	1.15	F	1480	92.7	0.9
36	TDC405T125U4B	170.2	155.8	125	50	1207	1105	110	200	100	1.15	F	1480	93	0.9
37	TDC444T125U4B	170.2	155.8	125	50	1207	1105	110	200	100	1.15	F	1480	93	0.9
38	TDC444T150U4B	203.6	186.4	150	50	1441	1319	110	200	100	1.15	F	1480	93.3	0.9
39	TDC445T150U4B	203.6	186.4	150	50	1441	1319	110	200	100	1.15	F	1480	93.3	0.9
40	TDC445T200U4B	267.0	244.5	200	50	1927	1764	100	200	90	1.15	F	1480	93.8	0.91
41	TDC447T200U4B	267.0	244.5	200	50	1927	1764	100	200	90	1.15	F	1480	93.8	0.91
42	TDC447T250U4B	333.0	305.0	250	50	2534	2320	80	175	75	1.15	F	1480	94	0.91
43	TDC449T250U4B	333.0	305.0	250	50	3026	2320	80	175	75	1.15	F	1480	94	0.91
44	TDC449T300U4B	399.7	365.9	300	50	3026	2770	80	175	75	1.15	F	1480	94	0.91
45	TDC449T350U4B	466.3	426.9	350	50	3542	3243	80	175	75	1.15	F	1480	94	0.91
46	TDC 254T7.5U6B	13.2	12.1	7.5	50	84	77	150	200	105	1.15	F	955	83.1	0.78
47	TDC 256T10U6B	15.4	14.1	10	50	107	98	150	200	105	1.15	F	960	84.7	0.78
48	TDC 284T15U6B	25.0	22.9	15	50	154	141	140	200	100	1.15	F	960	86.4	0.79
49	TDC 286T20U6B	32.9	30.1	20	50	194	177	135	200	100	1.15	F	965	87.7	0.79
50	TDC 324T25U6B	40.7	37.3	25	50	243	222	135	200	100	1.15	F	965	88.6	0.79
51	TDC 326T30U6B	48.5	44.4	30	50	289	264	135	200	100	1.15	F	975	89.2	0.79
52	TDC364T40U6B	63.2	57.8	40	50	387	354	135	200	100	1.15	F	975	90.2	0.8
53	TDC365T50U6B	78.4	71.8	50	50	482	441	135	200	100	1.15	F	980	90.8	0.8
54	TDC404T60U6B	93.5	85.6	60	50	578	529	135	200	100	1.15	F	980	91.4	0.8
55	TDC405T75U6B	114.8	105.1	75	50	722	661	135	200	100	1.15	F	980	91.9	0.81
56	TDC444T100U6B	151.9	139.1	100	50	965	883	125	200	100	1.15	F	980	92.6	0.81
57	TDC445T125U6B	189.3	173.3	125	50	1207	1105	125	200	100	1.15	F	980	92.9	0.81
58	TDC447T150U6B	226.2	207.1	150	50	1441	1319	120	200	100	1.15	F	980	93.3	0.81
59	TDC449T200U6B	300.0	274.7	200	50	1927	1764	120	175	100	1.15	F	980	93.8	0.81
60	TDC449T250U6B	374.2	342.6	250	50	2534	2320	100	175	90	1.15	F	980	94	0.81



DC Serie Fire Pump Motors' Main Performance Parameters(NEMA 60HZ)

Serial NO.	Model NO.	Current (A) 230V	Current (A) 460V	Current (A) 380V	Current (A) 400V	Current (A) 575V	Output (HP)	H/ DC	Locked current A(standard) 380V	Locked current A(standard) 400V	Locked current A(standard) 575V	Locked current A(standard) 460V	Locked torque multiple (standard)%	Maximum torque multiple (standard)%	Minimum torque multiple (standard)%	Service factor	INS class	RPM	EFF %	Power factor
1	TDC254T15U2B	35.1	17.5	21.2	20.2	14.0	15	60	140.4	133.4	92.8	116.0	130	200	100	1.15	F	3504	89.5	0.9
2	TDC256T20U2B	46.4	23.2	28.1	26.7	18.6	20	60	175.5	166.7	116.0	145.0	130	200	100	1.15	F	3504	90.2	0.9
3	TDC284TS25U2B	57.5	28.7	34.8	33.0	23.0	25	60	220.9	209.9	146.0	182.5	130	200	100	1.15	F	3516	91	0.9
4	TDC286TS30U2B	69.0	34.5	41.7	39.7	27.6	30	60	263.3	250.1	174.0	217.5	130	200	100	1.15	F	3516	91	0.9
5	TDC286TS40U2B	90.2	45.1	54.6	51.9	36.1	40	60	351.1	333.5	232.0	290.0	125	200	100	1.15	F	3516	91.7	0.91
6	TDC324TS40U2B	90.2	45.1	54.6	51.9	36.1	40	60	351.1	333.5	232.0	290.0	125	200	100	1.15	F	3516	91.7	0.91
7	TDC324TS50U2B	112.0	56.0	67.8	64.4	44.8	50	60	438.8	416.9	290.0	362.5	120	200	100	1.15	F	3516	92.4	0.91
8	TDC326TS50U2B	112.0	56.0	67.8	64.4	44.8	50	60	438.8	416.9	290.0	362.5	120	200	100	1.15	F	3516	92.4	0.91
9	TDC326TS60U2B	133.5	66.7	80.8	76.8	53.4	60	60	526.6	500.3	348.0	435.0	120	200	100	1.15	F	3516	93	0.91
10	TDC364TS60U2B	133.5	66.7	80.8	76.8	53.4	60	60	526.6	500.3	348.0	435.0	120	200	100	1.15	F	3516	93	0.91
11	TDC364TS75U2B	165.0	82.5	99.9	94.9	66.0	75	60	656.7	623.9	434.0	542.5	105	200	95	1.15	F	3516	93	0.92
12	TDC365TS75U2B	165.0	82.5	99.9	94.9	66.0	75	60	656.7	623.9	434.0	542.5	105	200	95	1.15	F	3528	93	0.92
13	TDC365TS100U2B	220.0	110.0	133.2	126.5	88.0	100	60	877.6	833.8	580.0	725.0	105	200	95	1.15	F	3528	93	0.92
14	TDC405TS100U2B	220.0	110.0	133.2	126.5	88.0	100	60	877.6	833.8	580.0	725.0	105	200	95	1.15	F	3528	93	0.92
15	TDC404TS125U2B	-	136.6	165.4	157.1	109.3	125	60	1098.6	1043.6	726.0	907.5	100	200	90	1.15	F	3528	93.6	0.92
16	TDC405TS150U2B	-	162.2	196.4	186.5	129.8	150	60	1313.4	1247.8	868.0	1085.0	100	200	90	1.15	F	3528	93.6	0.93
17	TDC444TS125U2B	-	135.2	163.6	155.5	108.1	125	60	1098.6	1043.6	726.0	907.5	100	200	90	1.15	F	3528	93.6	0.93
18	TDC444TS200U2B	-	214.2	259.3	246.4	171.4	200	60	1755.3	1667.5	1160.0	1450	100	200	90	1.15	F	3570	94.5	0.93
19	TDC445TS150U2B	-	162.2	196.4	186.5	129.8	150	60	1313.4	1247.8	868.0	1085.0	100	200	90	1.15	F	3528	93.6	0.93
20	TDC447TS200U2B	-	214.2	259.3	246.4	171.4	200	60	1755.3	1667.5	1160.0	1450	100	200	90	1.15	F	3570	94.5	0.93
21	TDC447TS300U2B	-	319.6	386.9	367.6	255.7	300	60	2663.2	2530.0	1760.0	2200	70	175	65	1.15	F	3570	95	0.93
22	TDC447TS350U2B	-	372.9	451.4	428.9	298.3	350	60	3086.8	2932.5	2040.0	2550	70	175	65	1.15	F	3570	95	0.93
23	TDC449TS250U2B	-	267.8	324.2	307.9	214.2	250	60	2209.2	2098.8	1460.0	1825	70	175	65	1.15	F	3570	94.5	0.93
24	TDC449TS300U2B	-	319.6	386.9	367.6	255.7	300	60	2663.2	2530.0	1760.0	2200	70	175	65	1.15	F	3570	95	0.93
25	TDC449TS350U2B	-	372.9	451.4	428.9	298.3	350	60	3086.8	2932.5	2040.0	2550	70	175	65	1.15	F	3570	95	0.93
26	TDC449TS400U2B	-	424.4	513.8	488.1	339.5	400	60	3510.5	3335.0	2320.0	2900	70	175	65	1.15	F	3570	95.4	0.93
27	TDC 254T15U4B	34.9	17.4	21.1	20.0	13.9	15	60	140.4	133.4	92.8	116.0	160	200	110	1.15	F	1728	91	0.89
28	TDC 256T20U4B	46.5	23.2	28.1	26.7	18.6	20	60	175.5	166.7	116.0	145.0	150	200	105	1.15	F	1734	91	0.89
29	TDC 284T25U4B	57.7	28.8	34.9	33.2	23.1	25	60	220.9	209.9	146.0	182.5	150	200	105	1.15	F	1740	91.7	0.89
30	TDC 286T30U4B	68.7	34.3	41.6	39.5	27.5	30	60	263.3	250.1	174.0	217.5	150	200	105	1.15	F	1752	92.4	0.89
31	TDC 324T40U4B	91.0	45.5	55.1	52.3	36.4	40	60	351.1	333.5	232.0	290.0	140	200	100	1.15	F	1752	93	0.89
32	TDC 326T50U4B	113.7	56.9	68.8	65.4	45.5	50	60	438.8	416.9	290.0	362.5	140	200	100	1.15	F	1764	93	0.89
33	TDC364T60U4B	135.6	67.8	82.1	78.0	54.2	60	60	526.6	500.3	348.0	435.0	140	200	100	1.15	F	1776	93.6	0.89
34	TDC365T75U4B	168.6	84.3	102.0	96.9	67.4	75	60	656.7	623.9	434.0	542.5	140	200	100	1.15	F	1776	94.1	0.89
35	TDC405T100U4B	224.8	112.4	136.1	129.3	89.9	100	60	877.6	833.8	580.0	725.0	125	200	100	1.15	F	1776	94.1	0.89
36	TDC405T125U4B	-	138.4	167.5	159.1	110.7	125	60	1098.6	1043.6	726.0	907.5	110	200	100	1.15	F	1776	94.5	0.9
37	TDC444T125U4B	-	138.4	167.5	159.1	110.7	125	60	1098.6	1043.6	726.0	907.5	110	200	100	1.15	F	1776	94.5	0.9
38	TDC444T150U4B	-	165.2	199.9	189.9	132.1	150	60	1313.4	1247.8	868.0	1085.0	110	200	100	1.15	F	1776	95	0.9
39	TDC445T150U4B	-	165.2	199.9	189.9	132.1	150	60	1313.4	1247.8	868.0	1085.0	110	200	100	1.15	F	1776	95	0.9
40	TDC445T200U4B	-	217.8	263.6	250.4	174.2	200	60	1755.3	1667.5	1160.0	1450	100	200	90	1.15	F	1780	95	0.91
41	TDC447T200U4B	-	217.8	263.6	250.4	174.2	200	60	1755.3	1667.5	1160.0	1450	100	200	90	1.15	F	1780	95	0.91
42	TDC447T250U4B	-	271.1	328.2	311.7	216.9	250	60	2209.2	2098.8	1460.0	1825	80	175	75	1.15	F	1780	95.4	0.91
43	TDC449T250U4B	-	271.1	328.2	311.7	216.9	250	60	2209.2	2098.8	1460.0	1825	80	175	75	1.15	F	1780	95.4	0.91
44	TDC449T300U4B	-	325.3	393.8	374.1	260.2	300	60	2663.2	2530.0	1760.0	2200	80	175	75	1.15	F	1780	95.4	0.91
45	TDC449T350U4B	-	379.5	459.4	436.4	303.6	350	60	3086.8	2932.5	2040.0	2550	80	175	75	1.15	F	1780	95.4	0.91
46	TDC 254T7.5U6B	20.5	10.2	12.4	11.8	8.2	7.5	60	76.9	73.0	50.8	63.5	150	200	105	1.15	F	1146	88.5	0.78
47	TDC 256T10U6B	26.8	13.4	16.2	15.4	10.7	10	60	98.1	93.2	64.8	81.0	150	200	105	1.15	F	1152	90.2	0.78
48	TDC 284T15U6B	39.6	19.8	24.0	22.8	15.9	15	60	140.4	133.4	92.8	116.0	140	200	100	1.15	F	1152	90.2	0.79
49	TDC 286T20U6B	52.4	26.2	31.7	30.1	21.0	20	60	175.5	166.7	116.0	145.0	135	200	100	1.15	F	1158	91	0.79
50	TDC 324T25U6B	65.0	32.5	39.3	37.4	26.0	25	60	220.9	209.9	146.0	182.5	135	200	100	1.15	F	1158	91.7	0.79
51	TDC 326T30U6B	77.4	38.7	46.8	44.5	31.0	30	60	263.3	250.1	174.0	217.5	135	200	100	1.15	F	1170	92.4	0.79
52	TDC364T40U6B	101.2	50.6	61.3	58.2	40.5	40	60	351.1	333.5	232.0	290.0	135	200	100	1.15	F	1170	93	0.8
53	TDC365T50U6B	126.5	63.3	76.6	72.8	50.6	50	60	438.8	416.9	290.0	362.5	135	200	100	1.15	F	1176	93	0.8
54	TDC404T60U6B	150.9	75.4	91.3	86.7	60.3	60	60	526.6	500.3	348.0	435.0	135	200	100	1.15	F	1176	93.6	0.8
55	TDC405T75U6B	186.2	93.1	112.7	107.1	74.5	75	60	656.7	623.9	434.0	542.5	135	200	100	1.15	F	1176	93.6	0.81
56	TDC444T100U6B	247.0	123.5	149.5	142.0	98.8	100	60	877.6	833.8	580.0	725.0	125	200	100	1.15	F	1176	94.1	0.81
57	TDC445T125U6B	-	154.4	186.9	177.5	123.5	125	60	1098.6	1043.6	726.0	907.5	125	200	100	1.15	F	1176	94.1	0.81
58	TDC447T150U6B	-	184.5	223.3	212.1	147.6	150	60	1313.4	1247.8	868.0	1085	120	200	100	1.15	F	1180	94.5	0.81
59	TDC449T200U6B	-	246.0	297.7	282.9	196.8	200	60	1755.3	1667.5	1160.0	1450	120	200	100	1.15	F	1180	94.5	0.81
60	TDC449T250U6B	-	304.6	368.7	350.2	243.6	250	60	2209.2	2098.8	1460.0	1825	100	175	90	1.15	F	1180	95.4	0.81



TXC Serie Fire Pump Motors' Main Performance Parameters(NEMA 60HZ)

Serial NO.	Model NO.	Current (A) 230V	Current (A) 460V	Current (A) 380V	Current (A) 400V	Current (A) 575V	Output (HP)	H/DC	Locked current A(standard) 380V	Locked current A(standard) 400V	Locked current A(standard) 575V	Locked current A(standard) 460V	Locked torque multiple (standard)%	Maximum torque multiple (standard)%	Minimum torque multiple (standard)%	Service factor	INS class	RPM	EFF %	Power factor
1	TXC 143T1U2B	2.8	1.4	1.7	1.6	1.1	1	60	18.2	17.3	12.0	15	175	250	120	1.15	F	3450	75.5	0.88
2	TXC 143T1.5U2B	3.9	1.9	2.4	2.2	1.6	1.5	60	24.2	23.0	16.0	20	175	250	120	1.15	F	3450	82.5	0.88
3	TXC 145T2U2B	5.0	2.5	3.0	2.9	2.0	2	60	30.3	28.8	20.0	25	170	240	120	1.15	F	3450	84	0.89
4	TXC 182T3U2B	7.4	3.7	4.5	4.3	3.0	3	60	38.7	36.8	25.6	32	160	230	110	1.15	F	3510	85.5	0.89
5	TXC 184T5U2B	12.1	6.0	7.3	7.0	4.8	5	60	55.7	52.9	36.8	46	150	215	105	1.15	F	3510	87.5	0.89
6	TXC 213T7.5U2B	17.9	9.0	10.9	10.3	7.2	7.5	60	76.9	73.0	50.8	63.5	140	200	100	1.15	F	3520	88.5	0.89
7	TXC 215T10U2B	23.6	11.8	14.3	13.6	9.5	10	60	98.1	93.2	64.8	81	135	200	100	1.15	F	3520	89.5	0.89
8	TXC 254T15U2B	34.8	17.4	21.1	20.0	13.9	15	60	140.4	133.4	92.8	116	130	200	100	1.15	F	3540	90.2	0.9
9	TXC 256T20U2B	46.4	23.2	28.1	26.7	18.6	20	60	175.5	166.8	116.0	145	130	200	100	1.15	F	3540	90.2	0.9
10	TXC 284T25U2B	57.5	28.7	34.8	33.0	23.0	25	60	220.9	209.9	146.0	182.5	130	200	100	1.15	F	3550	91	0.9
11	TXC 286T30U2B	69.0	34.5	41.7	39.7	27.6	30	60	263.3	250.1	174.0	217.5	130	200	100	1.15	F	3550	91	0.9
12	TXC 324T40U2B	90.2	45.1	54.6	51.9	36.1	40	60	351.1	333.5	232.0	290	125	200	100	1.15	F	3560	91.7	0.91
13	TXC 326T50U2B	112.0	56.0	67.8	64.4	44.8	50	60	438.8	416.9	290.0	362.5	120	200	100	1.15	F	3560	92.4	0.91
14	TXC364T50U2B	133.5	66.7	80.8	76.8	53.4	60	60	526.6	500.3	348.0	435	120	200	100	1.15	F	3560	93	0.91
15	TXC365T50U2B	165.0	82.5	99.9	94.9	66.0	75	60	656.7	623.9	434.0	542.5	105	200	95	1.15	F	3560	93	0.92
16	TXC405T100U2B	218.6	109.3	132.3	125.7	87.5	100	60	877.6	833.8	580.0	725	105	200	95	1.15	F	3570	93.6	0.92
17	TXC444T125U2B	-	134.1	162.3	154.2	107.3	125	60	1098.6	1043.6	726.0	907.5	100	200	90	1.15	F	3575	95.4	0.92
18	TXC445T150U2B	-	159.0	192.5	182.8	127.2	150	60	1313.4	1247.8	868.0	1085	100	200	90	1.15	F	3575	95.5	0.93
19	TXC447T200U2B	-	213.1	258.0	245.1	170.5	200	60	1755.3	1667.5	1160.0	1450	100	200	90	1.15	F	3575	95	0.93
20	TXC449T250U2B	-	265.3	321.1	305.0	212.2	250	60	2209.2	2098.8	1460.0	1825	70	175	65	1.15	F	3575	95.4	0.93
21	TXC449T300U2B	-	318.3	385.3	366.1	254.6	300	60	2663.2	2530.0	1760.0	2200	70	175	65	1.15	F	3575	95.4	0.93
22	TXC586/7T350U2B	-	371.4	449.5	427.1	297.1	350	60	3086.8	2932.5	2040.0	2550	70	175	65	1.15	F	3575	95.4	0.93
23	TXC586/7T400U2B	-	422.6	511.6	486.0	338.1	400	60	3510.5	3335.0	2320.0	2900	70	175	65	1.15	F	3577	95.8	0.93
24	TXC586/7T450U2B	-	475.5	575.6	546.8	380.4	450	60	3934.2	3737.5	2600.0	3250	70	175	65	1.15	F	3578	95.8	0.93
25	TXC 143T1U4B	2.6	1.3	1.6	1.5	1.0	1	60	18.2	17.3	12.0	15	275	300	190	1.15	F	1730	82.5	0.88
26	TXC 145T1.5U4B	3.8	1.9	2.3	2.2	1.5	1.5	60	24.2	23.0	16.0	20	250	280	175	1.15	F	1730	84	0.88
27	TXC 145T2U4B	5.1	2.5	3.1	2.9	2.0	2	60	30.3	28.8	20.0	25	235	270	165	1.15	F	1730	84	0.88
28	TXC 182T3U4B	7.3	3.7	4.4	4.2	2.9	3	60	38.7	36.8	25.6	32	215	250	150	1.15	F	1735	87.5	0.88
29	TXC 184T5U4B	12.2	6.1	7.4	7.0	4.9	5	60	55.7	52.9	36.8	46	185	225	130	1.15	F	1735	87.5	0.88
30	TXC 213T7.5U4B	17.9	9.0	10.9	10.3	7.2	7.5	60	76.9	73.0	50.8	63.5	175	215	120	1.15	F	1740	89.5	0.88
31	TXC 215T10U4B	23.9	12.0	14.5	13.7	9.6	10	60	98.1	93.2	64.8	81	165	200	115	1.15	F	1740	89.5	0.88
32	TXC 254T15U4B	34.9	17.4	21.1	20.0	13.9	15	60	140.4	133.4	92.8	116	160	200	110	1.15	F	1750	91	0.89
33	TXC 256T20U4B	46.5	23.2	28.1	26.7	18.6	20	60	175.5	166.8	116.0	145	150	200	105	1.15	F	1750	91	0.89
34	TXC 284T25U4B	57.2	28.6	34.6	32.9	22.9	25	60	220.9	209.9	146.0	182.5	120	200	105	1.15	F	1760	92.4	0.89
35	TXC 286T30U4B	68.7	34.3	41.6	39.5	27.5	30	60	263.3	250.1	174.0	217.5	150	200	105	1.15	F	1760	92.4	0.89
36	TXC 324T40U4B	91.0	45.5	55.1	52.3	36.4	40	60	351.1	333.5	232.0	290	140	200	100	1.15	F	1770	93	0.89
37	TXC 326T50U4B	113.7	56.9	68.8	65.4	45.5	50	60	438.8	416.9	290.0	362.5	140	200	100	1.15	F	1770	93	0.89
38	TXC364T60U4B	135.6	67.8	82.1	78.0	54.2	60	60	526.6	500.3	348.0	435	140	200	100	1.15	F	1775	93.6	0.89
39	TXC365T75U4B	166.7	83.4	100.9	95.9	66.7	75	60	656.7	623.9	434.0	542.5	140	200	100	1.15	F	1775	94.1	0.9
40	TXC405T100U4B	221.4	110.7	134.0	127.3	88.5	100	60	877.6	833.8	580.0	725	125	200	100	1.15	F	1780	94.5	0.9
41	TXC444T125U4B	-	136.8	165.6	157.4	109.5	125	60	1098.6	1043.6	726.0	907.5	110	200	100	1.15	F	1780	94.5	0.91
42	TXC445T150U4B	-	163.3	197.7	187.8	130.7	150	60	1313.4	1247.8	868.0	1085	110	200	100	1.15	F	1780	95	0.91
43	TXC447T200U4B	-	217.8	263.6	250.4	174.2	200	60	1755.3	1667.5	1160.0	1450	100	200	90	1.15	F	1780	95	0.91
44	TXC449T250U4B	-	272.2	329.5	313.1	217.8	250	60	2209.2	2098.8	1460.0	1825	80	175	75	1.15	F	1780	95	0.91
45	TXC449T300U4B	-	325.3	393.8	374.1	260.2	300	60	2663.2	2530.0	1760.0	2200	80	175	75	1.15	F	1781	95.4	0.91
46	TXC586/7T350U4B	-	379.5	459.4	436.4	303.6	350	60	3086.8	2932.5	2040.0	2550	80	175	75	1.15	F	1782	95.4	0.91
47	TXC586/7T400U4B	-	433.7	525.0	498.8	347.0	400	60	3510.5	3335.0	2320.0	2900	80	175	75	1.15	F	1783	95.4	0.91
48	TXC586/7T450U4B	-	488.0	590.7	561.1	390.4	450	60	3934.2	3737.5	2600.0	3250	80	175	75	1.15	F	1784	95.4	0.91
49	TXC 145T1U6B	3.1	1.5	1.9	1.8	1.2	1	60	18.2	17.3	12.0	15	170	265	120	1.15	F	1150	80	0.76
50	TXC 182T1.5U6B	4.3	2.1	2.6	2.5	1.7	1.5	60	24.2	23.0	16.0	20	165	250	115	1.15	F	1150	85.5	0.77
51	TXC 184T2U6B	5.7	2.8	3.4	3.3	2.3	2	60	30.3	28.8	20.0	25	160	240	110	1.15	F	1150	86.5	0.77
52	TXC 213T3U6B	8.4	4.2	5.1	4.8	3.4	3	60	38.7	36.8	25.6	32	155	230	110	1.15	F	1150	87.5	0.77
53	TXC 215T5U6B	14.0	7.0	8.5	8.0	5.6	5	60	55.7	52.9	36.8	46	150	215	105	1.15	F	1160	87.5	0.77
54	TXC 254T7.5U6B	20.5	10.2	12.4	11.8	8.2	7.5	60	76.9	73.0	50.8	63.5	150	200	105	1.15	F	1160	89.5	0.77
55	TXC 256T10U6B	27.3	13.7	16.5	15.7	10.9	10	60	98.1	93.2	64.8	81	150	200	105	1.15	F	1165	89.5	0.77
56	TXC 284T15U6B	40.1	20.1	24.3	23.1	16.1	15	60	140.4	133.4	92.8	116	140	200	100	1.15	F	1165	90.2	0.78
57	TXC 286T20U6B	53.5	26.8	32.4	30.8	21.4	20	60	175.5	166.8	116.0	145	135	200	100	1.15	F	1170	90.2	0.78
58	TXC 324T25U6B	65.0	32.5	39.3	37.4	26.0	25	60	220.9	209.9	146.0	182.5	135	200	100	1.15	F	1170	91.7	0.79
59	TXC 326T30U6B	78.0	39.0	47.2	44.8	31.2	30	60	263.3	250.1	174.0	217.5	135	200	100	1.15	F	1175	91.7	0.79
60	TXC364T40U6B	101.2	50.6	61.3	58.2	40.5	40	60	351.1	333.5	232.0	290	135	200	100	1.15	F	1175	93	0.8
61	TXC365T50U6B	126.5	63.3	76.6	72.8	50.6	50	60	438.8	416.9	290.0	362.5	135	200	100	1.15	F	1180	93	0.8
62	TXC404T60U6B	150.9	75.4	91.3	86.7	60.3	60	60	526.6	500.3	348.0	435	135	200	100	1.15	F	1180	93.6	0.8
63	TXC405T75U6B	186.2	93.1	112.7	107.1	74.5	75	60	656.7	623.9	434.0	542.5	135	200	100	1.15	F	1180	93.6	0.81
64	TXC444T100U6B	247.0	123.5	149.5	142.0	98.8	100	60	877.6	833.8	580.0	7								



XC Serie Fire Pump Motors' Main Performance Parameters(NEMA 208~230/460V 60HZ)

Serial NO.	Model NO.	Current (A) 380V	Current (A) 415V	Output (HP)	Hz/DC	Locked current A (standard) 380V	Locked current A(standard) 415V	Locked torque multiple (standard) %	Maximum torque multiple (standard) %	Minimum torque multiple (standard) %	Service factor	INS class	RPM	EFF %	Power factor
1	TXC 143T1U2B	1.8	1.6	1	50	20	18.3	175	250	120	1.15	F	2875	72.1	0.88
2	TXC 143T1.5U2B	2.6	2.4	1.5	50	27	24.7	175	250	120	1.15	F	2875	75	0.88
3	TXC 145T2U2B	3.3	3.0	2	50	34	31.1	170	240	120	1.15	F	2875	77.2	0.89
4	TXC 182T3U2B	4.8	4.4	3	50	43	39.4	160	230	110	1.15	F	2925	79.7	0.89
5	TXC 184T5U2B	7.9	7.2	5	50	61	55.9	150	215	105	1.15	F	2925	81.5	0.89
6	TXC 213T7.5U2B	11.3	10.4	7.5	50	84	76.9	140	200	100	1.15	F	2933	84.7	0.89
7	TXC 215T10U2B	14.9	13.6	10	50	107	98.0	135	200	100	1.15	F	2933	86	0.89
8	TXC 254T15U2B	21.7	19.9	15	50	154	141.0	130	200	100	1.15	F	2950	87.6	0.9
9	TXC 256T20U2B	28.5	26.1	20	50	194	177.6	130	200	100	1.15	F	2950	88.7	0.9
10	TXC 284TS25U2B	35.4	32.5	25	50	243	222.5	130	200	100	1.15	F	2958	89.3	0.9
11	TXC 286TS30U2B	42.3	38.7	30	50	289	264.6	130	200	100	1.15	F	2958	89.9	0.9
12	TXC 324TS40U2B	55.2	50.6	40	50	387	354.4	125	200	100	1.15	F	2967	90.7	0.91
13	TXC 326TS50U2B	68.7	62.9	50	50	482	441.3	120	200	100	1.15	F	2967	91.2	0.91
14	TXC364TS60U2B	81.9	75.0	60	50	578	529.3	120	200	100	1.15	F	2967	91.7	0.91
15	TXC365TS75U2B	100.9	92.4	75	50	722	661.1	105	200	95	1.15	F	2967	92.1	0.92
16	TXC405TS100U2B	133.6	122.3	100	50	965	883.6	105	200	95	1.15	F	2975	92.7	0.92
17	TXC444TS125U2B	166.5	152.4	125	50	1207	1105.2	100	200	90	1.15	F	2979	93	0.92
18	TXC445TS150U2B	197.0	180.4	150	50	1441	1319.5	100	200	90	1.15	F	2979	93.3	0.93
19	TXC447TS200U2B	262.1	240.0	200	50	1927	1764.5	100	200	90	1.15	F	2979	93.5	0.93
20	TXC449TS250U2B	326.6	299.0	250	50	2534	2320.3	70	175	65	1.15	F	2979	93.8	0.93
21	TXC449TS300U2B	391.1	358.1	300	50	3026	2770.8	70	175	65	1.15	F	2979	94	0.93
22	TXC586/7TS350U2B	456.2	417.8	350	50	3542	3243.3	70	175	65	1.15	F	2980	94	0.93
23	TXC586/7TS400U2B	521.4	477.4	400	50	4046	3704.8	70	175	65	1.15	F	2981	94	0.93
24	TXC586/7TS450U2B	586.6	537.1	450	50	4539	4156.2	70	175	65	1.15	F	2982	94	0.93
25	TXC 143T1U4B	1.8	1.6	1	50	20	18.3	275	300	190	1.15	F	1442	72.1	0.88
26	TXC 145T1.5U4B	2.6	2.4	1.5	50	27	24.7	250	280	175	1.15	F	1442	75	0.88
27	TXC 145T2U4B	3.4	3.1	2	50	34	31.1	235	270	165	1.15	F	1442	77.2	0.88
28	TXC 182T3U4B	4.9	4.5	3	50	43	39.4	215	250	150	1.15	F	1446	79.7	0.88
29	TXC 184T5U4B	7.9	7.3	5	50	61	55.9	185	225	130	1.15	F	1446	81.5	0.88
30	TXC 213T7.5U4B	11.5	10.5	7.5	50	84	76.9	175	215	120	1.15	F	1450	84.7	0.88
31	TXC 215T10U4B	15.1	13.8	10	50	107	98.0	165	200	115	1.15	F	1450	86	0.88
32	TXC 254T15U4B	21.9	20.1	15	50	154	141.0	160	200	110	1.15	F	1458	87.6	0.89
33	TXC 256T20U4B	28.9	26.4	20	50	194	177.6	150	200	105	1.15	F	1458	88.7	0.89
34	TXC 284T25U4B	35.8	32.8	25	50	243	222.5	150	200	105	1.15	F	1467	89.3	0.89
35	TXC 286T30U4B	42.7	39.1	30	50	289	264.6	150	200	105	1.15	F	1467	89.9	0.89
36	TXC 324T40U4B	56.5	51.7	40	50	387	354.4	140	200	100	1.15	F	1475	90.7	0.89
37	TXC 326T50U4B	70.2	64.3	50	50	482	441.3	140	200	100	1.15	F	1475	91.2	0.89
38	TXC364T60U4B	83.8	76.7	60	50	578	529.3	140	200	100	1.15	F	1479	91.7	0.89
39	TXC365T75U4B	103.1	94.4	75	50	722	661.1	140	200	100	1.15	F	1479	92.1	0.9
40	TXC405T100U4B	136.6	125.1	100	50	965	883.6	125	200	100	1.15	F	1483	92.7	0.9
41	TXC444T125U4B	168.3	154.1	125	50	1207	1105.2	110	200	100	1.15	F	1483	93	0.91
42	TXC445T150U4B	201.3	184.3	150	50	1441	1319.5	110	200	100	1.15	F	1483	93.3	0.91
43	TXC447T200U4B	267.9	245.3	200	50	1927	1764.5	100	200	90	1.15	F	1483	93.5	0.91
44	TXC449T250U4B	333.8	305.6	250	50	2534	2320.3	80	175	75	1.15	F	1483	93.8	0.91
45	TXC449T300U4B	399.7	365.9	300	50	3026	2770.8	80	175	75	1.15	F	1484	94	0.91
46	TXC586/7T350U4B	466.3	426.9	350	50	3542	3243.3	80	175	75	1.15	F	1485	94	0.91
47	TXC586/7T400U4B	532.9	487.9	400	50	4046	3704.8	80	175	75	1.15	F	1486	94	0.91
48	TXC586/7T450U4B	599.5	548.9	450	50	4539	4156.2	80	175	75	1.15	F	1487	94	0.91
49	TXC 145T1U6B	2.1	2.0	1	50	20	18.3	170	265	120	1.15	F	958	70	0.76
50	TXC 182T1.5U6B	3.0	2.8	1.5	50	27	24.7	165	250	115	1.15	F	958	72.9	0.77
51	TXC 184T2U6B	3.9	3.6	2	50	34	31.1	160	240	110	1.15	F	958	75.2	0.77
52	TXC 213T3U6B	5.7	5.2	3	50	43	39.4	155	230	110	1.15	F	958	77.7	0.77
53	TXC 215T5U6B	9.3	8.5	5	50	61	55.9	150	215	105	1.15	F	967	79.7	0.77
54	TXC 254T7.5U6B	13.4	12.2	7.5	50	84	76.9	150	200	105	1.15	F	967	83.1	0.77
55	TXC 256T10U6B	17.5	16.0	10	50	107	98.0	150	200	105	1.15	F	971	84.7	0.77
56	TXC 284T15U6B	25.4	23.2	15	50	154	141.0	140	200	100	1.15	F	971	86.4	0.78
57	TXC 286T20U6B	33.3	30.5	20	50	194	177.6	135	200	100	1.15	F	975	87.7	0.78
58	TXC 324T25U6B	40.7	37.3	25	50	243	222.5	135	200	100	1.15	F	975	88.6	0.79
59	TXC 326T30U6B	48.5	44.4	30	50	289	264.6	135	200	100	1.15	F	979	89.2	0.79
60	TXC364T40U6B	63.2	57.8	40	50	387	354.4	135	200	100	1.15	F	979	90.2	0.8
61	TXC365T50U6B	78.4	71.8	50	50	482	441.3	135	200	100	1.15	F	983	90.8	0.8
62	TXC404T60U6B	93.5	85.6	60	50	578	529.3	135	200	100	1.15	F	983	91.4	0.8
63	TXC405T75U6B	114.8	105.1	75	50	722	661.1	135	200	100	1.15	F	983	91.9	0.81
64	TXC444T100U6B	151.9	139.1	100	50	965	883.6	125	200	100	1.15	F	983	92.6	0.81
65	TXC445T125U6B	189.3	173.3	125	50	1207	1105.2	125	200	100	1.15	F	983	92.9	0.81
66	TXC447T150U6B	226.2	207.1	150	50	1441	1319.5	120	200	100	1.15	F	983	93.3	0.81
67	TXC449T200U6B	300.9	275.5	200	50	1927	1764.5	120	200	100	1.15	F	983	93.5	0.81
68	TXC586/7T250U6B	375.0	343.3	250	50	2534	2320.3	100	175	90	1.15	F	983	93.8	0.81
69	TXC586/7T300U6B	449.0	411.1	300	50	3026	2770.8	100	175	90	1.15	F	983	94	0.81
70	TXC586/7T350U6B	523.8	479.6	350	50	3542	3243.3	100	175	90	1.15	F	983	94	0.81
71	TXC586/7T400U6B	598.7	548.2	400	50	4046	3704.8	100	175	90	1.15	F	983	94	0.81

Трехфазные Асинхронные двигатели Серии TG

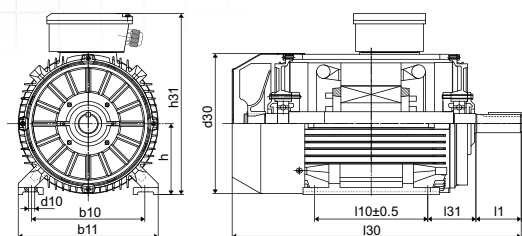
TG Series Three-Phase Motors

ОСОБЕННОСТИ

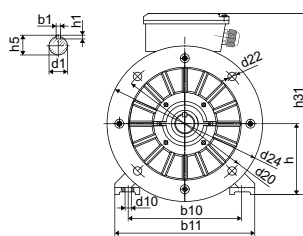
- Режим работы: продолжительный при температуре окружающей среды $\pm 40^{\circ}\text{C}$
- Материал корпуса: чугун;
- Тип подшипников : шариковый;
- Степень защиты: IP55.

FEATURES

- Continuous Duty $\pm 40^{\circ}\text{C}$ Ambient Temperature
- Cast Iron Frames
- Ball Bearings
- IP55 Protection



IM B3 Figure1



IM B35 Figure2

Габаритные, установочные и присоединительные размеры. Overall & Installation Dimension

Тип двигателя (Frame)	Число полюсов	Монтаж лап(Foot Mounting)					Ось(Shaft)					B5					Общее(General)				
		h	b10	I10	I31	d10	d1	I1	b1	h1	h5	d25	d20	d24	I20	I39	d22	b11	h31	d30	I30
80	2,4,6,8	80	125	100	50	Ø10	Ø22	50	6	6	24.5	Ø130	Ø165	Ø198	3.5	0	4-Ø12	160	205	Ø158	290
90L	2,4,6,8	90	140	125	56	Ø10	Ø24	50	8	7	27	Ø180	Ø215	Ø250	4.0	0	4-Ø15	175	220	Ø176	350
100S/L	2,4,6,8	100	160	112/140	63	Ø12	Ø28	60	8	7	31	Ø180	Ø215	Ø250	4.0	0	4-Ø15	200	245	Ø199	388
112M	2,4,6,8	112	190	140	70	Ø12	Ø32	80	10	8	35	Ø230	Ø265	Ø300	4.0	0	4-Ø15	230	290	Ø220	430
132S/M	2,4,6,8	132	216	140/178	89	Ø12	Ø38	80	10	8	41	Ø250	Ø300	Ø350	4.0	0	4-Ø19	255	330	Ø259	467/505
160S/M	2	160	254	178/210	108	Ø15	Ø42	110	12	8	45	Ø250	Ø300	Ø350	5.0	0	4-Ø19	314	402	Ø313	605
	4,6,8	160	254	178/210	108	Ø15	Ø48	110	14	9	51.5	Ø250	Ø300	Ø350	5.0	0	4-Ø19	314	402	Ø313	605
180S/M	2	180	279	203/241	121	Ø15	Ø48	110	14	9	52	Ø300	Ø350	Ø400	5.0	0	4-Ø19	348	439	Ø360	687
	4,6,8	180	279	203/241	121	Ø15	Ø55	110	16	10	59	Ø300	Ø350	Ø400	5.0	0	4-Ø19	348	439	Ø360	687
200M/L	2	200	318	267/305	133	Ø19	Ø55	110	16	10	59	Ø350	Ø400	Ø450	5.0	0	4-Ø19	388	497	Ø399	768
	4,6,8	200	318	267/305	133	Ø19	Ø60	140	18	11	64	Ø350	Ø400	Ø450	5.0	0	4-Ø19	388	497	Ø399	798
225M	2	225	356	311	149	Ø19	Ø55	110	16	10	59	Ø450	Ø500	Ø550	5.0	0	8-Ø19	436	553	Ø465	809
	4,6,8	225	356	311	149	Ø19	Ø65	140	18	11	69	Ø450	Ø500	Ø550	5.0	0	8-Ø19	436	553	Ø465	839
250S/M	2	250	406	311/349	168	Ø24	Ø65	140	18	11	69	Ø450	Ø500	Ø550	5.0	0	8-Ø19	484	616	Ø506	918
	4,6,8	250	406	311/349	168	Ø24	Ø75	140	20	12	80	Ø450	Ø500	Ø550	5.0	0	8-Ø19	484	616	Ø506	918
280S/M	2	280	457	368/419	190	Ø24	Ø70	140	20	12	74.5	Ø550	Ø600	Ø660	5.0	0	8-Ø24	557	668	Ø559	984/1035
	4,6,8,10	280	457	368/419	190	Ø24	Ø80	170	22	14	85.5	Ø550	Ø600	Ø660	5.0	0	8-Ø24	557	668	Ø559	1014/1065
315S/M	2	315	508	406/457	216	Ø28	Ø75	140	20	12	79.5	Ø550	Ø600	Ø660	5.0	0	8-Ø24	635	845	Ø645	1185/1295
	4,6,8,10,12	315	508	406/457	216	Ø28	Ø90	170	25	14	95	Ø550	Ø600	Ø660	5.0	0	8-Ø24	635	845	Ø645	1215/1325
355S/M	2	355	610	500/560	254	Ø28	Ø85	170	22	14	90.5	Ø680	Ø740	Ø800	5.0	0	8-Ø24	730	1010	Ø710	1530
	4,6,8,10,12	355	610	500/560	254	Ø28	Ø100	210	28	16	106	Ø680	Ø740	Ø800	5.0	0	8-Ø24	730	1010	Ø710	1570



ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ Technical Data

Тип двигателя	Мощность кВт	Частота вращения об/мин	Номинальный ток при 380 В, А	КПД, %	cos φ	M _n /M _n	M _{max} /M _n	I _n /I _n	Масса, кг
Model	Power (KW)	Speed (r/min)	Current At 380V (A)	Eff. (%)	Power Factor (Cos φ)	T _{min} /T _n (Times)	T _{max} /T _n (Times)	I _{st} /I _n (Times)	W.T (Kg)
TG 80A-2	1.50	3000	3.5	80	0.85	2.5	2.7	6.4	15.70
TG 80B-2	2.20	3000	5.4	83	0.87	3.1	3	7	18.00
TG 90L-2	3.00	3000	6.8	83.5	0.9	2.7	2.9	7	26.50
TG 100S-2	4.00	3000	8.15	85.5	0.9	2.4	2.9	7	31.50
TG 100L-2	5.50	3000	11.2	87	0.9	2.9	3.3	7.5	35.50
TG 112M-2	7.50	3000	15.1	88	0.91	3.1	3.3	7.5	46.80
TG 132M-2	11	3000	21.9	89	0.9	3.2	3.6	7.5	73.50
TG 160S-2	15	3000	29	89.5	0.9	2.3	3.2	7.5	118.50
TG 160M-2	18.5	3000	35.8	90	0.91	2.3	3.2	7.5	135.00
TG 180S-2	22	3000	42.9	90.5	0.89	2.3	3	7.5	153.00
TG 180M-2	30	3000	57	91.5	0.9	2.3	3.1	7.5	177.00
TG 200M-2	37	3000	70	91.5	0.88	2.4	2.9	7	235.00
TG 200L-2	45	3000	85	92	0.9	2.3	2.9	6.5	255.00
TG 225M-2	55	3000	104.9	92.5	0.9	2.5	2.9	7	345.00
TG 250S-2	75	3000	143	92.7	0.91	2.5	3	7.5	422.00
TG 250M-2	90	3000	171.8	93	0.91	2.7	3.2	7.5	438.00
TG 280S-2	110	3000	195.8	93.5	0.93	2.5	3.1	7.5	670.00
TG 280M-2	132	3000	234.9	94	0.93	2.4	2.9	7.5	700.00
TG 315S-2	160	3000	279	94.5	0.92	2.2	1.8	7.5	1120.00
TG 315M-2	200	3000	348	94.8	0.92	2.2	1.8	7.2	1190.00
TG 355S-2	250	3000	470	95	0.89	1.9	2.3	7.2	1690.00
TG 355M-2	315	3000	582	95.2	0.89	1.9	2.3	7	1850.00
TG 80A-4	1.10	1500	2.75	77	0.75	2.6	2.3	5.5	15.70
TG 80B-4	1.50	1500	3.52	78	0.8	2.8	2.4	5.5	19.00
TG 90L-4	2.20	1500	5.3	80.5	0.8	2.8	2.4	6	24.50
TG 100S-4	3.00	1500	6.7	81.5	0.82	2.4	2.8	6.5	33.40
TG 100L-4	4.00	1500	8	83	0.83	2.5	2.6	6.5	35.30
TG 112M-4	5.50	1500	11.3	85	0.86	2.6	2.6	7	46.80
TG 132S-4	7.5	1500	14.8	87	0.83	2.4	2.9	7.5	72.00
TG 132M-4	11	1500	21.7	88.5	0.84	3	2.9	7.5	85.00
TG 160S-4	15	1500	29	89	0.91	2.3	2.6	7.5	125.00
TG 160M-4	18.5	1500	35	90	0.9	2.8	3	7.5	150.00
TG 180S-4	22	1500	42	90.5	0.87	2.8	3	7.5	162.00
TG 180M-4	30	1500	58.2	91	0.89	2.7	3	7.5	230.00
TG 200M-4	37	1500	70.1	92	0.89	2.8	3.1	7.5	241.00
TG 200L-4	45	1500	85.3	92.2	0.88	2.8	3.2	7.5	276.00
TG 225M-4	55	1500	103.5	92.7	0.86	2.3	2.6	7	360.00
TG 250S-4	75	1500	142.4	93.3	0.88	2.5	2.6	7.5	420.00
TG 250M-4	90	1500	170	93.8	0.89	2.4	2.5	7	450.00
TG 280S-4	110	1500	203	94.2	0.9	2.5	2.6	7	630.00
TG 280M-4	132	1500	244	95	0.9	2.7	2.5	7.5	740.00
TG 315S-4	160	1500	296	95	0.88	2.3	2.1	6.5	1120.00
TG 315M-4	200	1500	360	95.5	0.89	2.3	2.4	5.5	1270.00
TG 355S-4	250	1500	444	95	0.9	2.2	2.1	6.5	1640.00
TG 355M-4	315	1500	551	95	0.91	2.2	2.1	7	1850.00



ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ Technical Data

Тип двигателя	Мощность кВт	Частота вращения об/мин	Номинальный ток при 380 В, А	КПД, %	cos φ	M _н /M _н	M _{max} /M _н	I _н /I _н	Масса, кг
Model	Power (KW)	Speed (r/min)	Current At 380V (A)	Eff. (%)	Power Factor (Cos φ)	T _{min} /T _н (Times)	T _{max} /T _н (Times)	I _{st} /I _н (Times)	W.T (Kg)
TG 80A-6	1.10	1500	2.75	77	0.75	2.6	2.3	5.5	15.70
TG 80B-6	1.10	1000	3.9	73	0.73	2.4	2.6	4	18.00
TG 90L-6	1.50	1000	5.7	75	0.74	2.3	2.6	5	25.60
TG 100L-6	2.20	1000	8.7	78	0.79	2.3	2.4	5	33.50
TG 112MA-6	3.00	1000	10.9	81	0.74	2.6	3	6.5	42.50
TG 112MB-6	4	1000	9.1	82	0.79	2.6	2.7	6	47.50
TG 132S-6	5.5	1000	11.7	84	0.81	2.5	2.7	7	68.50
TG 132M-6	7.5	1000	16	85.5	0.82	2.8	2.7	7	73.50
TG 160S-6	11	1000	22.2	87	0.83	2.6	2.4	7	125.00
TG 160M-6	15	1000	30.3	89	0.82	2.7	2.7	7	157.00
TG 180M-6	18	1000	35.4	89.5	0.86	2.7	2.9	7	188.00
TG 200M-6	22	1000	42.1	90	0.87	2.4	2.7	7	218.00
TG 200L-6	30	1000	57.4	90	0.85	3	3.2	7.5	245.00
TG 225M-6	37	1000	69.8	91	0.87	2.7	2.8	7.5	323.00
TG 250S-6	45	1000	87	91.7	0.85	2.6	2.8	7.5	326.00
TG 250M-6	55	1000	106	92.2	0.85	2.7	2.6	7.5	370.00
TG 280S-6	75	1000	143.2	93	0.88	2.5	2.6	7	685.00
TG 280M-6	90	1000	171	93.5	0.88	2.8	2.6	6.5	725.00
TG 315S-6	110	1000	209	93.9	0.88	2.2	2.7	6	1110.00
TG 315M-6	132	1000	244	94	0.9	2.2	2.5	6.5	1210.00
TG 355S-6	160	1000	291	94.5	0.89	2	1.9	6.5	1540.00
TG 355M-6	200	1000	360	94.5	0.89	2	1.9	6.5	1700.00
TG 80A-8	0.37	750	1.3	62	0.61	2.3	2.2	3	15.50
TG 80B-8	0.55	750	2	64	0.6	2.1	2.6	3	17.70
TG 90LA-8	0.75	750	2.4	69	0.68	2	2.4	3	23.00
TG 90LB-8	1.10	750	3.3	71	0.68	2.2	2.4	3.5	26.00
TG 100L-8	1.50	750	4.3	74	0.68	2.5	2.7	4	34.00
TG 112MA-8	2.2	750	6.1	76.5	0.71	2.4	2.7	5	46.50
TG 112MB-8	3	750	7.6	78	0.7	2.4	2.6	5	50.00
TG 132S-8	4	750	9.9	82	0.7	2.7	2.7	6	73.00
TG 132M-8	5.5	750	13.3	83	0.74	2.3	2.4	5.5	86.00
TG 160S-8	7.5	750	17.5	85.5	0.71	2.6	2.6	6	125.00
TG 160M-8	11	750	22.2	86.7	0.73	2.4	2.5	6	174.50
TG 180M-8	15	750	28.7	88	0.78	2.7	2.9	7	195.00
TG 200M-8	18.5	750	35.4	88.4	0.79	2.5	2.8	7	240.00
TG 200L-8	22	750	42.2	89	0.78	2.5	2.9	7	255.00
TG 225M-8	30	750	56.6	90	0.8	2.4	2.5	6	335.00
TG 250S-8	37	750	71.4	90.7	0.79	2.2	2.5	6	350.00
TG 250M-8	45	750	86.9	91.3	0.8	2.4	2.5	6	413.00
TG 280S-8	55	750	106	92	0.8	2.7	2.9	7	670.00
TG 280M-8	75	750	132	92.8	0.8	2.8	2.9	7	760.00
TG 315S-8	90	750	178	93.5	0.85	2	1.8	6	1120.00
TG 315M-8	110	750	217	93.5	0.85	2	1.8	6	1230.00
TG 355S-8	132	750	255	93.5	0.85	2	1.8	6	1540.00
TG 355M-8	160	750	308	93.5	0.85	2	1.8	6	1700.00
TG 315S-10	55	600	115	92.5	0.79	2.2	1.6	6.5	925.00
TG 315M-10	75	600	155	92.5	0.8	2.2	1.9	6	1040.00
TG 355S-10	90	600	178	92.5	0.83	2.2	1.9	6	1530.00
TG 355M-10	110	600	217	93	0.83	2.2	1.9	6	1620.00



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