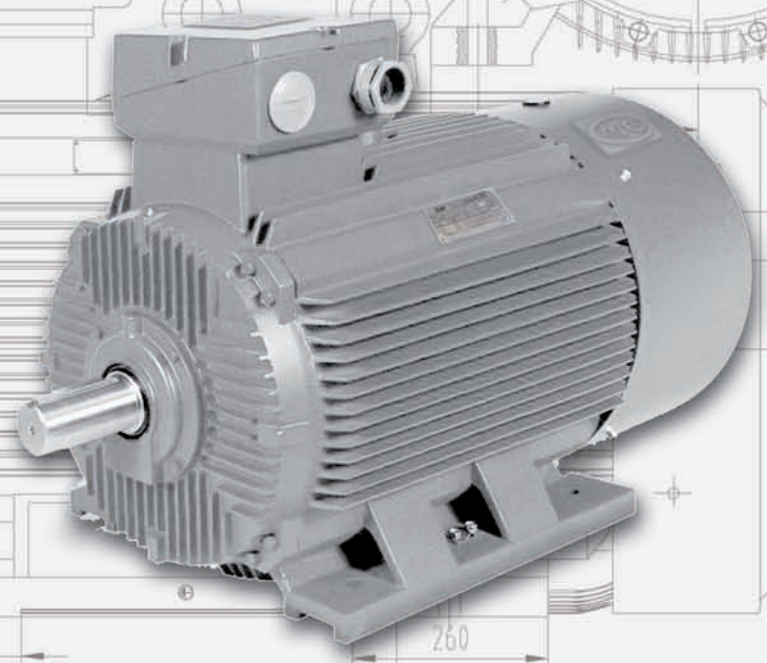
ELECTRIC MOTORS

Standard Motors
Cast Iron IE1
LOW VOLTAGE



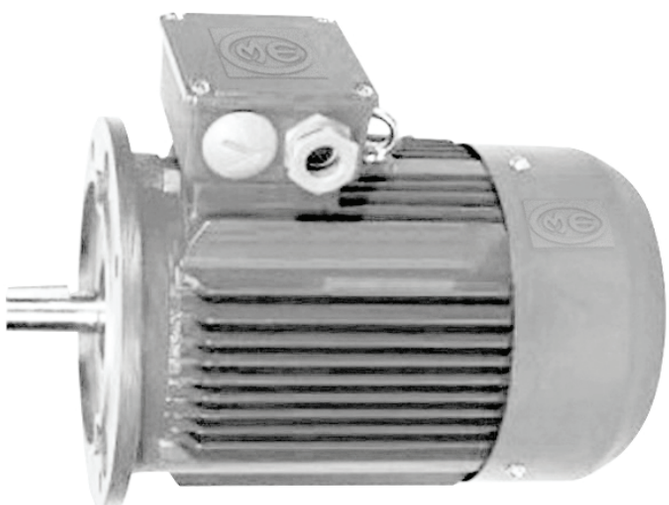
ORSATTI GROUP

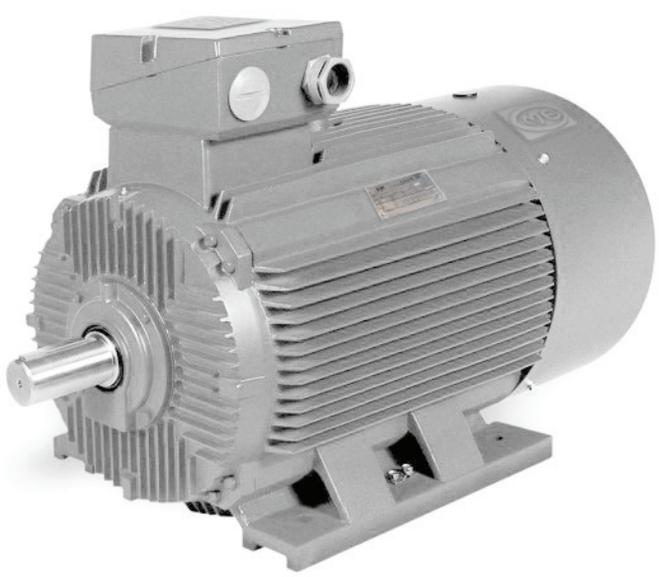
1. GENERAL INTRODUCTION

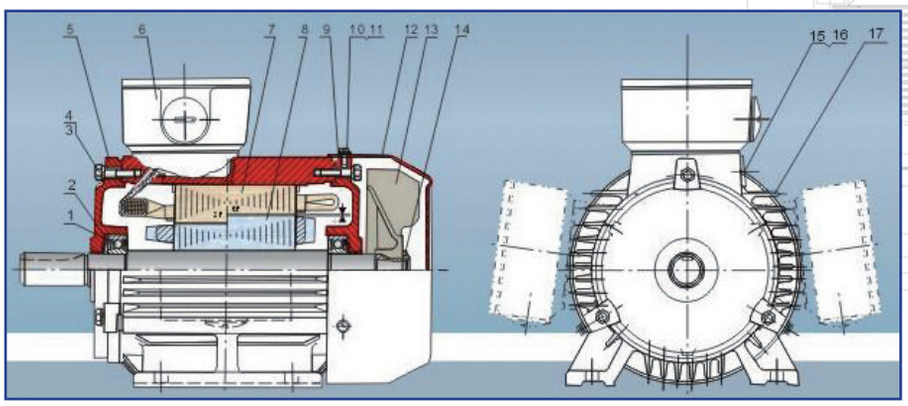
OM IE1 series three phase asynchronous motor with cast iron housing.
These IE1 motors are for application of petroleum, chemical, metallurgical, cement and paper industries, especially suitable for a durable and at full capacity operation of fans, pumps, compressors,and other mechanical equipment.

2. OPERATING CONDITIONS

Ambient temperature: -15° C + 40°C on request up to 55° C.
Altitude: not exceed 1.000 m.
Rated voltage: 380 V or any voltage between V.220 - V.760.
Rated frequency: HZ 50, HZ 60.
Protection class: IP54, IP55.
Insulation class: F.
Temperature rise: Class B
Cooling method: IC 411
Duty: S1 (continuous).
Connection: Star-connection up to 3kW, delta-connection for 4kW and above.
Remark: Terminal box on top, right or left side are available. Key-way can be closed type or opened type. Motors can also be equipped with PTC, as well as re-greasing system for frame size 160 and above.
On request SKF or NSK Bearings.
On request Heaters, Klixon.







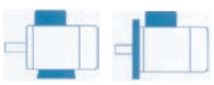
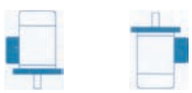
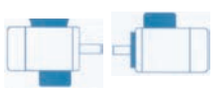
3. MATERIAL TABLE

Description		Description		Description		Description	
1	Bearing	6	Terminal Box	11	Washer	16	Rivet
2	Wave-form washer	7	Stator pack with winding	12	Fan cowl	17	Frame
3	Bolt	8	Rotor	13	Fan	18	
4	Spring washer	9	NDE shield	14	Circlip	19	
5	DE shield	10	Screw	15	Nameplate	20	

4. BEARINGS

Frame size	POLES	Drive end	Non-drive end
63	2-4	6201	6201
71	2-6	6202	6202
80	2-8	6204	6204
90	2-8	6205	6205
100	2-8	6206	6206
112	2-8	6206	6206
132	2-8	6208	6208
160	2-8	6309	6309
180	2	6211	6211
	4-8	6311	6211
200	2	6212	6212
	4-8	6312	6212
225	2	6312	6312
	4-8	6313	6312
250	2	6313	6313
	4-8	6314	6313
280	2	6314	6314
	4-8	6317	6314
315	2	6317	6317
	4-10	6319	6319
355	2	6319	6319
	4-10	Nu332	6322

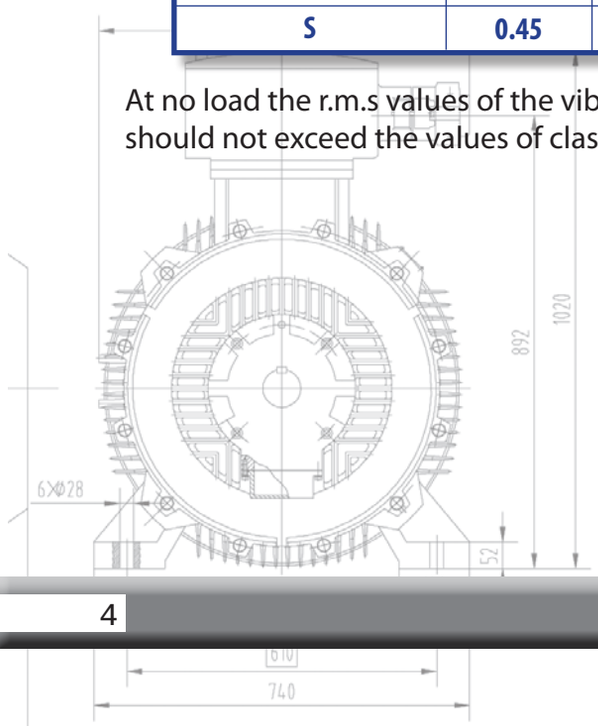
5. MOUNTING ARRANGEMENT

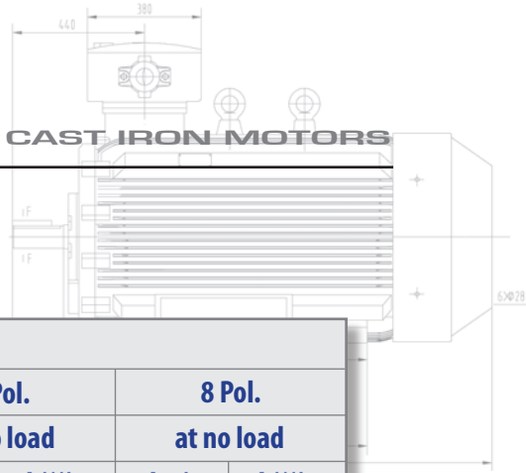
Types of Mounting	IEC34-7(1992)		Types of Mounting	IEC34-7(1992)	
	Code I	Code II		Code I	Code II
	IMB3	IM1001		IMV1	IM3001
	IMB5	IM3001		IMV3	IM3031
	IMB6	-		IMV5	IM1011
	IMB7	-		IMV6	IM1031
	IMB8	-		IMV15	IM2011
	IMB14	IM3601		IMV36	IM2031
	IMB34	IM2101		IMV18	IM3611
	IMB35	IM2001		-	-

6. VIBRATION

Size of motor housing	≤132		>132~225		>225	
r/min (synchronous speed)	600~1800	>1800~3600	600~1800	>1800~3600	600~1800	>1800~3600
Class of vibration	mm/s the r.m. s vable of the vibration velocity					
N	1.8		2.8		3.5	
R	0.71	1.12	1.12	1.80	1.80	1.80
S	0.45	0.71	0.71	1.12	1.12	1.12

At no load the r.m.s values of the vibration velocity (i.e, the limits of vibration severity) of motors should not exceed the values of class. Specified in table class R.S. is available on requires.





7. NOISE

Sound pressure level LpA [dB(A)]-50Hz									
	Motor size	2 Pol. at no load		4 Pol. at no load		6 Pol. at no load		8 Pol. at no load	
		L pA	L WA	L pA	L WA	L pA	L WA	L pA	L WA
Size	160	70.6	86.0	59.6	75.0	57.6	73.0	52.6	68.0
	180	73.6	89.0	60.6	76.0	57.6	73.0	54.6	70.0
	200	76.6	92.0	63.6	79.0	60.6	76.0	57.6	73.0
	225	76.6	92.0	65.6	81.0	60.6	76.0	57.6	73.0
	250	77.6	93.0	65.6	81.0	62.6	78.0	59.6	75.0
	280	78.6	94.0	70.6	86.0	64.6	80.0	60.6	76.0
	315SM	80.6	96.0	77.6	93.0	69.6	85.0	66.6	82.0
	315L	83.6	99.0	81.6	97.0	69.6	85.0	66.6	82.0
	355	87.6	103.0	85.6	101.0	76.6	92.0	74.6	90.0

8. CLASSIFICATION OF DEGREE OF PROTECTION

The main function is to avoid being subjected to an electric shock, coming into contact with the moving parts and to prevent that solid objects, oil and water can penetrate.
It is in compliance with IEC34-5, EN 60529 European Standards; CEI 70-1 NATIONAL STANDARDS; INTERNATIONAL STANDARDS IEC 529.

Protection against contact and foreign bodies		Protection against water	
IP 1st digit		IP 2st digit	
0	No protection	0	No protection
1	Large foreign bodies, diameter equal or greater than 50mm to 50 mm	1	Vertically falling drops of water
2	Medium-size foreign bodies, diameter equal or greater than 12 mm	2	Obliquely falling drops of water up to 15° towards vertical
3	Small foreign bodies, diameter equal or greater than 2.5 mm	3	Spray water up to 60° towards vertical
4	Grain-shaped foreign bodies, diameter equal or greater than to 1 mm	4	Splash water from all sidesi
5	Dust deposit	5	Jets of water
6	Ingress of dust	6	Powerful jets of water
		7	Partial immersion
		8	Immersion

9. ANTI-CONDENSATION HEATER

It is easy for moisture to enter the electric motor whiles working in a moist environment, causing it to decrease it's value of insulation. To prevent this, the electric motor anti-condensation heater is specially designed for moisture proofing. With the help of the electric motor anti-condensation heater, the temperature in the motor windings will be 5°C higher than the ambient temperature when it is running. Hence there is no water condensed on the coil windings in the electric motor and the motor will be running well in moist environment.

CHARACTERISTIC

The electric motor anti-condensation heater is connected to the AC contactor of the electrical motor at NC contact. When the electrical motors stop working, the anti-condensation heater starts to work, making the temperature of the motor winding 5° C higher than the ambient temperature. When the electric motor starts to working, the anti-condensation heater is switched according to the type of the motor bed-plate.
We have a full line of anti-condensation heater for low voltage electric motor with a complete range of specifications: The electric motor anti-condensation heater can be made according to the special needs of users, with high accredited quality, advanced technology and a stable structure.

TECHNICAL PARAMETER

Withstand voltages > 2.5KV AC.
The heat proof temperature of insulation material = 250°C.
The structure picture of heater.

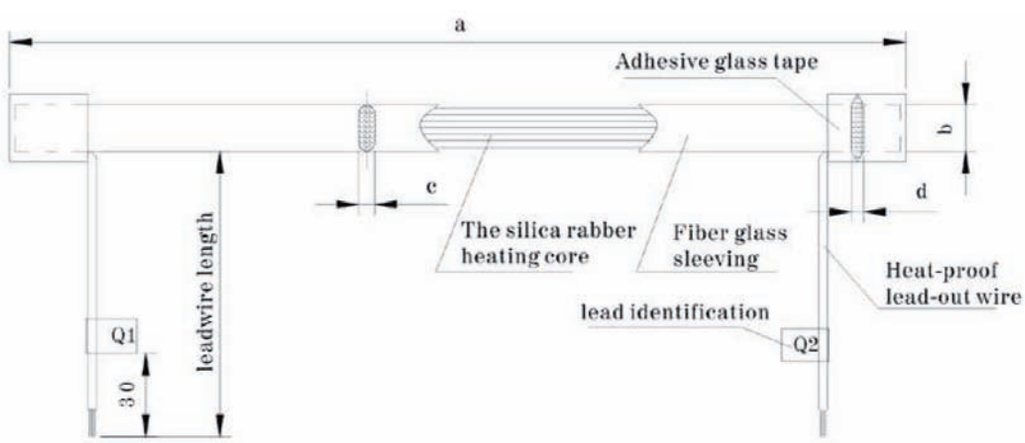
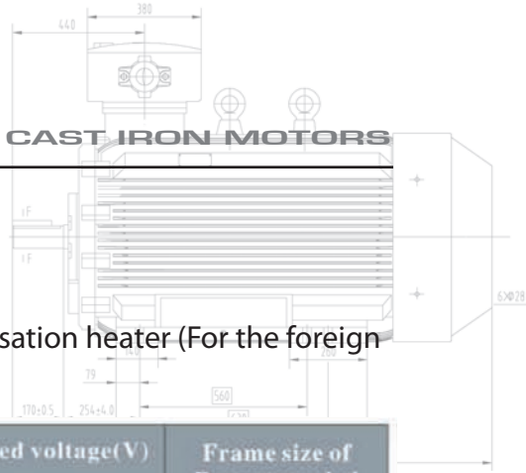


Chart 1 Electric Motor Anti-Condensation Heater



SPECIFICATION

The specification and standards of BQ model electric motor anti-condensation heater (For the foreign capital electric motor affiliates use) is as follows.

Type	Dimensions Length*Width*Thickness	Lead wire Length (mm)	Power (W)	Rated voltage(V)		Frame size of Recommended electric motor
				A	B	
BQ301A(B)	240×13×2.5×4.5	200	10	230	115	H71
BQ302A(B)	300×14×2.5×4.5	380	20	230	115	H80~H90
BQ303A(B)	400×14×2.5×4.5	480	30	230	115	H100~H112
BQ304A(B)	550×14×2.5×4.5	780	40	230	115	H132~H160
BQ305A(B)	680×14×2.5×4.5	900	50	230	115	H180~H200
BQ306A(B)	900×14×2.5×4.5	950	60	230	115	H225~H280
BQ308A(B)	1050×14×2.5×4.5	1050	80	230	115	H315
BQ311A(B)	1350×14×2.5×4.5	1150	110	230	115	H355

Note: 2 pcs. anti-condensation heater should be used on electric motor of H315 frame size.

The specification and standards of KBQ model electric motor anti-condensation heater (For the domestic electrical motor companies use) is as follows:

Type	Dimensions length*Width*Thickness	Lead wire Length (mm)	Power (W)	Rated voltage(V)		Frame size of Recommended electric motor
				A	B	
KBQ301A(B)	220×14×2.5×4.5	160	10	220	110	H71
KBQ302A(B)	260×14×2.5×4.5	340	20	220	110	H80~H90
KBQ303A(B)	350×14×2.5×4.5	440	30	220	110	H100~H112
KBQ304A(B)	460×14×2.5×4.5	740	40	220	110	H132~H160
KBQ305A(B)	630×14×2.5×4.5	850	50	220	110	H180~H200
KBQ306A(B)	800×14×2.5×4.5	900	60	220	110	H225~H280
KBQ308A(B)	950×14×2.5×4.5	1000	80	220	110	H315
KBQ310A(B)	1350×14×2.5×4.5	1150	100	220	110	H355
KBQ311A(B)	2000×14×2.5×4.5	1500	110	220	110	H400

Note: 2 pcs. anti-condensation heater should be used on electric motor of H315 frame size.

SPECIFICATION

The specification of overseas electric motor anti-condensation heaters is as follows:

Type	Dimensions length*Width*Thickness	Lead wire length (mm)	Power (W)	Rated voltage(V)		Frame size of recommended electric motor
				A	B	
KBQ3026A(B)	432×14×2.5×4.5	340	26	230	115	H80~H132
KBQ3065A(B)	1473×14×2.5×4.5	850	65	230	115	H160~H200
KBQ3099A(B)	1702×14×2.5×4.5	900	99	230	115	H225~H280
KBQ3099A(B)	1702×14×2.5×4.5	900	99	230	115	H315~H355

Note: 2 pcs. anti-condensation heater should be used on electric motor of H315 frame size.

The heaters that our company recommend.

Type	Rated power (w)	Length(mm)				Lead wire length (mm)	Rated working voltage V (AC)		Specification of electric motor
		2	4	6	8		A	B	
DBQ02A(B)	20	290	310	343	343	380	220	110	H80
		310	310	350	371				H90
DBQ03A(B)	30	350	420	420	420	480			H100
		420	450	450	450				H112
DBQ04A(B)	40	500	500	560	560	780			H132
		600	600	700	700				H160
DBQ05A(B)	50	785	817	848	848	900			H180
		942	942	974	974				H200
DBQ06A(B)	60	1068	1068	1131	1131	950			H225
		1146	1146	1146	1146				H250
		1256	1288	1320	1320				H280
DBQ08A(B)	80	1508	1508	1540	1540	1050			H315
DBQ11A(B)	110	1696	1727	1727	1727	1150			H355

Note: ❑ All the data above are only for reference, we can produce any kind of heater according to customers' need.

❑ 2 pcs. anti-condensation heaters should be used on electric motor of H315 frame size.

SPECIFICATIONS AND MODEL

DBQ — □ — □ — □ — □

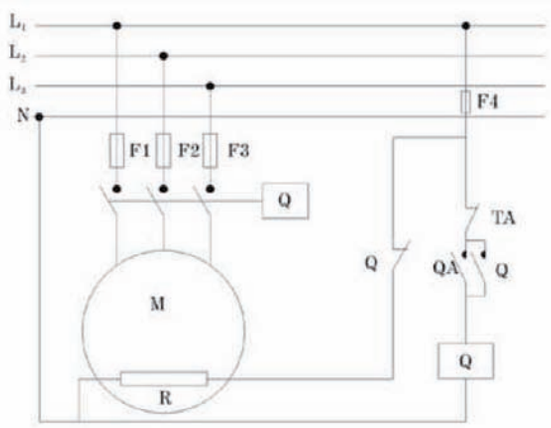
- Pole number
- Machine number(Frame size of the electric motor)
- Working voltage: (A)220 (B)110
- Rated power: □ ×10W
- The heater that is made of silicon rubber(insulation material)

EXAMPLE FOR ORDERING

DBQ — 03 — A — 112 — 6

- Pole number: 6
- Machine number: 112
- Working voltage: 220V
- Rated power: 30W
- The heater that is made of silicon rubber (insulation material)

CONNECTION DIAGRAM FOR REFERENCE



M: Electric motor
R: Anti-condensation Heater
Q: Electromagnetic switch
TA: Switch off button
QA: Switch on button

OPERATING INSTRUCTIONS

SAFETY ATTENTION

● INSTALLATION

Attention! ❑ Please install the heater on non-flammable parts of the motor such as metal parts or out side of the stator end winding on the connection end, in order to avoid catching fire.

❑ Do not access to the combustible substance, in order to avoid catching fire.

❑ Do not use sharp tools to install, in order to avoid causing the heater damage.

● WIRING

Danger! ❑ When wiring the motor, please make sure the alternating current is cut off, in order to avoid getting an electric shock or catching fire.

❑ The wiring work must be handled by a special electrician, in order to avoid getting an electric shock or catching fire.

❑ Before wiring, the product should be correctly installed, otherwise there may be the danger of getting an electric shock.

Attention! ❑ Please confirm the product rated voltage must be consistent with the alternating current voltage, in order to avoid damaging products and catching fire.

INSTALLATION

- ❑ Please confirm the type of the heater must conform to the electric motor's matching requirement.
- ❑ Clean up the electric motor stator and the winding coil.
- ❑ Lie the heater out, the lead wires should be leaned in the side of the stator ferrite core, as Figure 1 shows.
- ❑ If the electric motor uses two pieces of anti-condensation heaters, one heater should be installed in the driving winding end, the other heater should be installed in the non-driving winding end.
- ❑ Wrap the heater around the outside of the stator end winding coil on the connection end and tie in place preferably with wide polyester ties. Narrow ties or strings can cause damage to the heater elements, if they are tied tightly.
- ❑ Do not overlap the heater directly on top of itself as this will cause a hot spot which could lead to reducing thermal life of the insulation exposed to the hot spot temperatures.

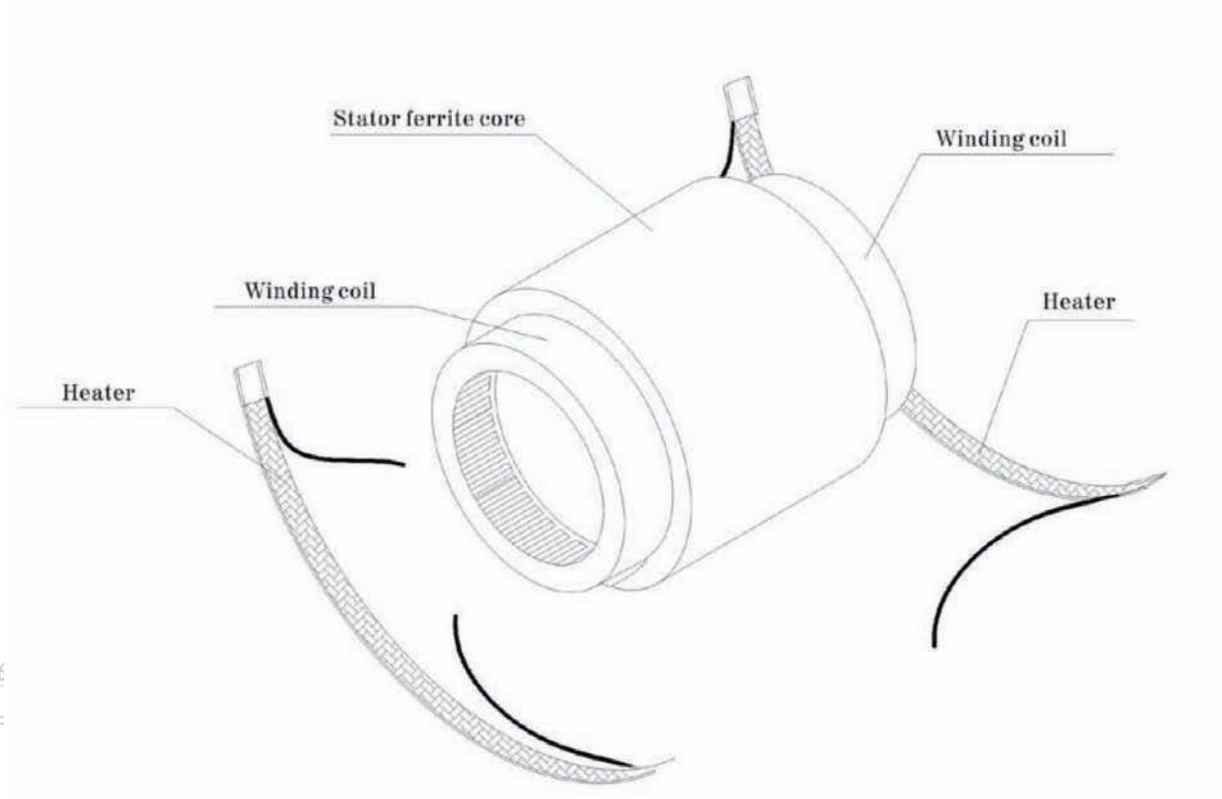
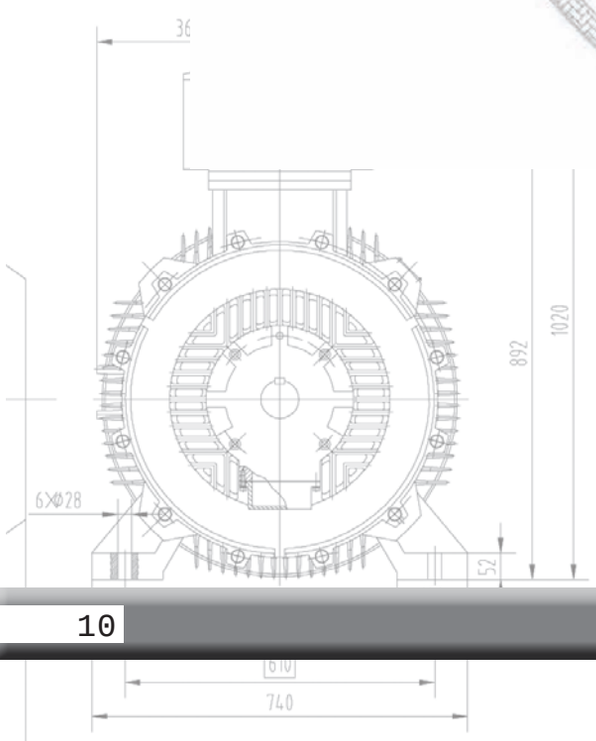


Chart 1



Wrap the heater around the outside of the stator end winding coil on the connection end and tie in place preferably with wide polyester, finally varnish it together with the motor. As figure 2 showAs Figure 2 shows.

● **WIRING**

Connect the heater's lead wires to the electric motor junction box.
Connect the lead wires to the right wiring terminal and fix firmly.

BREAKDOWN AND MEASURE

Breakdown	Reason	Measure
Heater doesn't to work	1. The power source was unconnected. 2. The contact of the lead wire and the wiring terminal is not good. 3. Heater's interior was damaged.	1. Connect the power source. 2. Firm the contact of lead wires and wiring terminal. 3. Replace the heater
Sometimes works, sometimes does not work	The contact of the lead wire and the wiring terminal is not good.	Firm the contact of lead wires and wiring terminal.

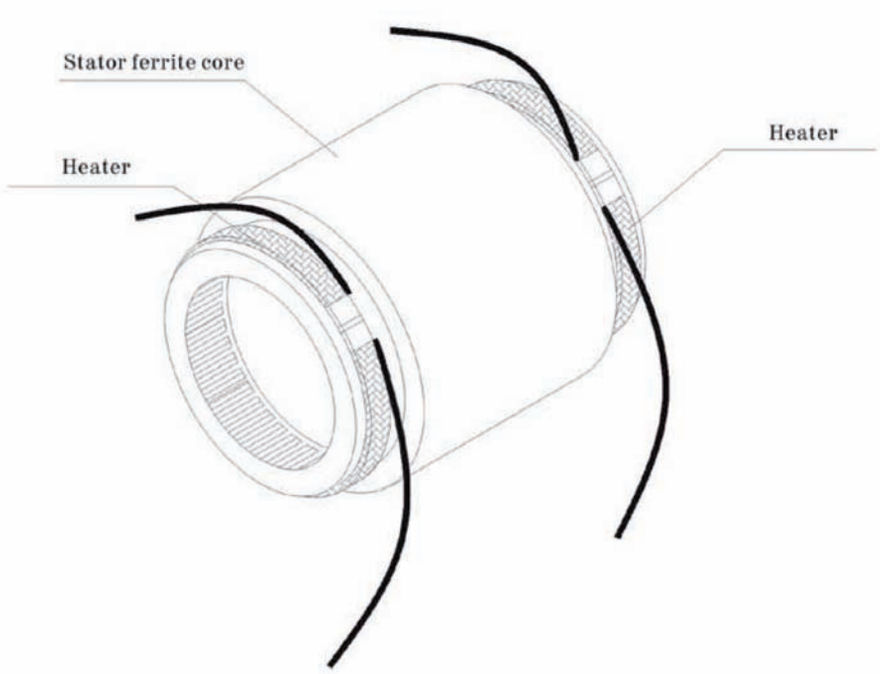


Chart 2

10. MK1 TYPE OVERTEMPERATURE PROTECTION THERMOSWITCH

Patent number:ZL 02 2 10543.3 UL File No: E3187 36 CE File No: TCCE01085

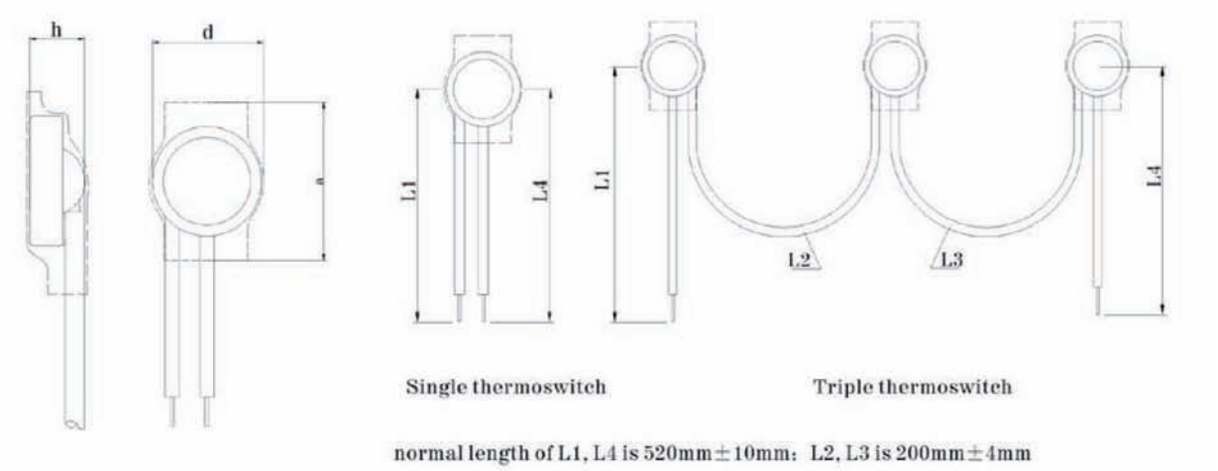
SUMMARIZATION

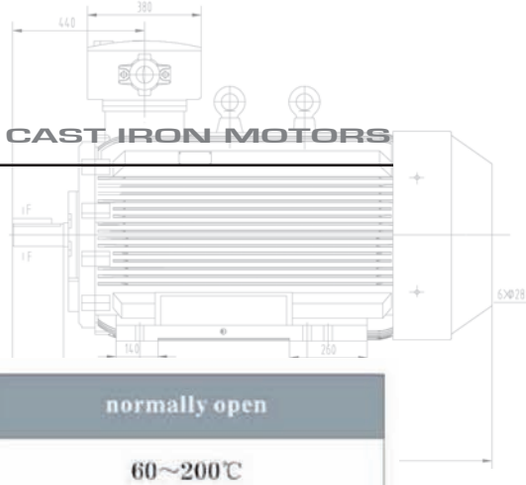
MK1 type overtemperature protection thermoswitch is specially applied to the use of overtemperature protection of some spot. Embed the thermoswitch in electric motor winding, when the temperature reaches the protection thermoswitch operating temperature, the movable contact of the thermoswitch leaves the stationary contact to switch off the power source of the controller, and further switch off the main circuit of the electric motor to protect the electric motor.

CHARACTERISTIC

MK1 type overtemperature protection thermoswitch has a sensitive action and reliable performance. The thermoswitch can be applied to the middle process control, especially it can endure some mechanical pressure, and can work stably for a long time, its excellent performance have reached the international advanced standard.

OUTER DIMENSION OF THERMOSWITCH

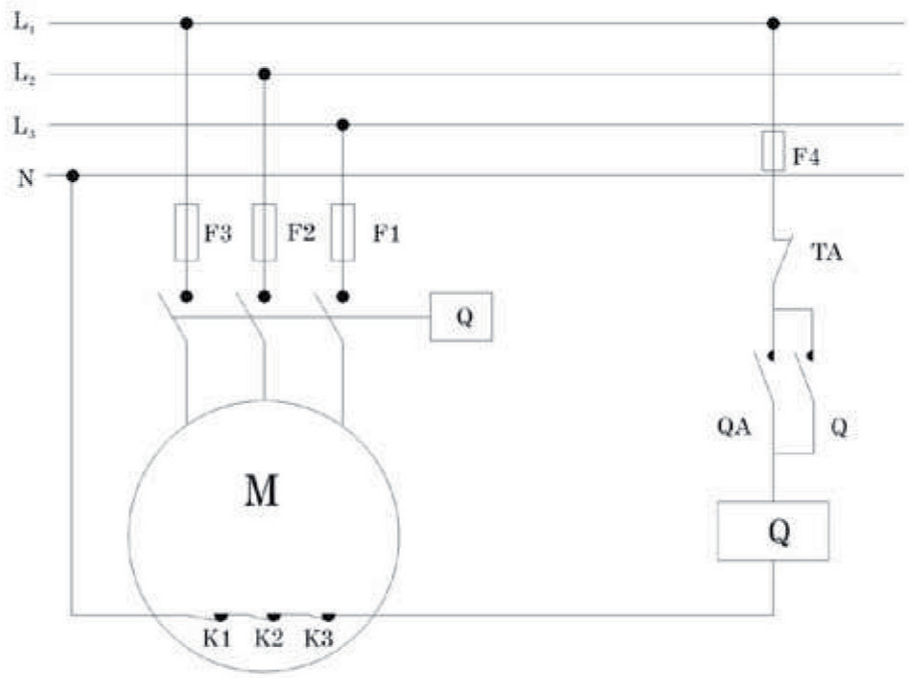




TECHNICAL PARAMETER

Contact variety	normally closed		normally open	
The Rated switch temperature each 5 ℃ span in series (TK)	60~200℃		60~200℃	
Standard tolerance	±5K		±5K	
Reset temperature range (under rated switch temperature)	30K±15K		30K±15K	
Maximum operating voltage	500VAC	60VDC	500VAC	60VDC
Rated current (AC:COSΦ=1.0)	250VAC 2.50A	500VAC 0.75A	250VAC 2.50A	500VAC 0.75A
Rated current (AC:COSΦ=0.6)	250VAC 1.60A	500VAC 0.5A	250VAC 1.60A	500VAC 0.5A
Switch on and off times at rated current (life length)	2.5A 10000 times	5A 2000 times	2.5A 10000 times	5A 2000 times
Sensitivity of switch on and off times at maximum switch current 250V AC/5.0	2000		2000	
Contact resistance	<50mΩ		<50mΩ	
Anti-knock capacity	100m/s²		100m/s²	
Stability of case pressure	450N(45kg)		450N(45kg)	
Insulation voltage	2KV		2KV	
Length of insulating sleeving	>16mm		>16mm	
Diameter	<9.7mm		<9.7mm	
Height	<4.8mm		<4.8mm	
Sectional area of lead wire	0.35mm²		0.35mm²	
Standard length of lead wire	$L_1=L_4=520\pm10$mm $L_2=L_3=200\pm4$mm		$L_1=L_4=520\pm10$mm $L_2=L_3=200\pm4$mm	

WIRING REFERENCE DIAGRAM

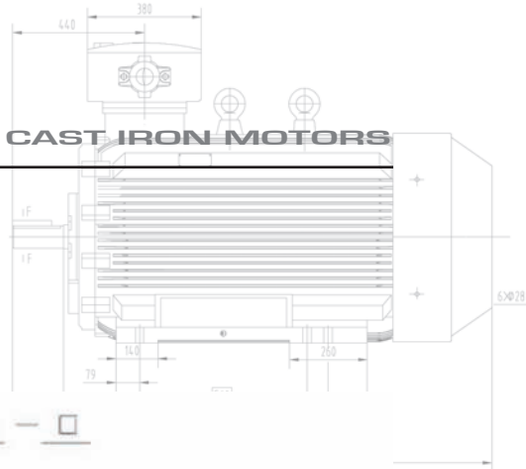


M: Electric motor
K1, K2, K3: Thermoswitch
Q: Electromagnetic switch
TA: OFF button
QA: ON button

TYPE EXPLANATION

Protection thermoswitches of different temperature TK for different insulation grade electric motors are as the following table shows. (only reference).

Electric motor insulation grade	Limited Working Temperature(℃)	Thermoswitch Tk
Y	90	75~80℃
A	105	90~95℃
E	120	105~110℃
B	130	115~120℃
F	155	140~145℃
H	180	165~170℃
C	above 180	above 180



SPECIFICATIONS AND MODEL

MK1 □ D K □ – □ – □ – □ – □

1 2 3 4

M-Sensitive component
K-Switch model
1-type1 normally closed
2-type2 normally open

Switch temperature

E-Single thermoswitch
Z-Dual thermoswitch in series
D-Triple thermoswitches in series
V-Quadruple thermoswitches in series
S-Sextuple thermoswitches in series

S- Standard lead wire length
K-Special lead wire length requested by user

M-Screwed type shell B-Metal shell
T-Ceramic shell
No marking-Black overheat-resistance shrinkage pipe

If user has special requirement(k)
1~4 corresponding to L1~L4
respectively, unit cm, or omitted

SAFETY ATTENTION

● INSTALLATION

Attention! ❑ Do not access to combustible substance, in order to avoid catching fire.

❑ Do not use sharp tools to install, in order to avoid causing the protection thermoswitch damage.

❑ Please refer to the operating instruction brochure to install.

● WIRING

Danger! ❑ Please confirm the input power source is cut off, when wiring, in order to avoid getting an electric shock.

❑ The wiring work must be handled by a special electrician, in order to avoid getting an electric shock.

❑ Before wiring, the product should be correctly installed, otherwise there may be a danger of getting an electric shock.

Attention! ❑ Please confirm the product rated voltage must be consistent with the alternating current voltage, in order to avoid damaging products and catching fire.

INSTALLATION

First confirmed the model of the product conforms to the electric motor's matching requirement.
Fix overtemperature protection thermoswitch's labeled side next to the Stator Winding coil and tie tightly (picture 1).

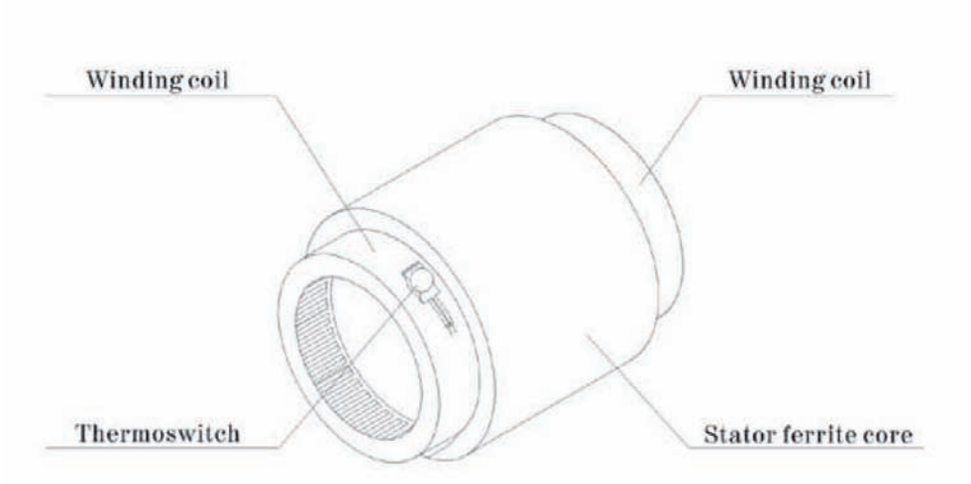


Chart 1

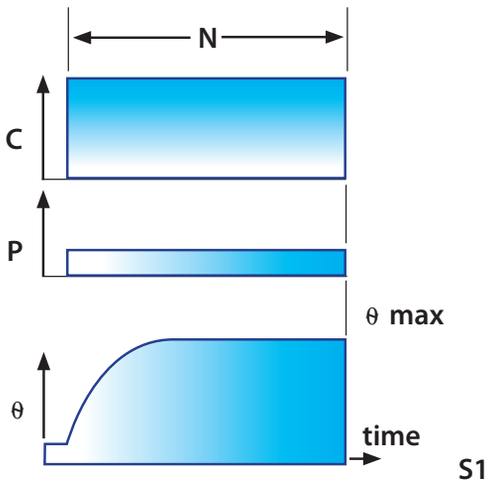
WIRING

Connect the lead wires of the overtemperature protection thermoswitch to the junction box of the electric motor.
Connect the lead wires to the right wiring therminal and fasten it.
Before wiring, please read the technical data related to electric motor's wiring.

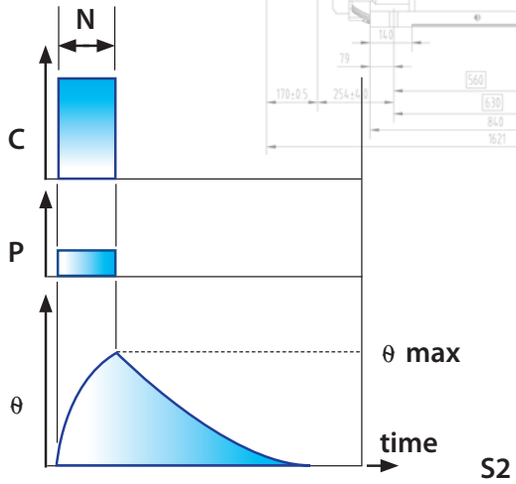
BREAKDOWN AND MEASURE

Breakdown	Reason	Measure
Thermoswitch switch does not work	1.Protection lead wires were not put in the circuit 2.Thermoswitch's interior was damaged	1.Inspect lead wires and connect them well 2.Exchange protection thermoswitch
Sometimes works, sometimes works does not work	The lead wires' contact is not good	Firm the contact of lead wires and wiring terminal

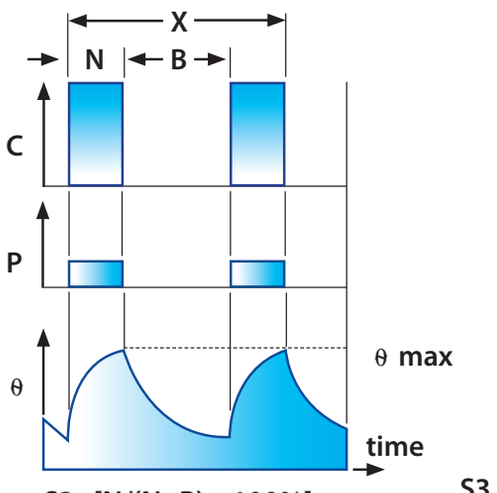
11. OPERATING DIAGRAMS



S1

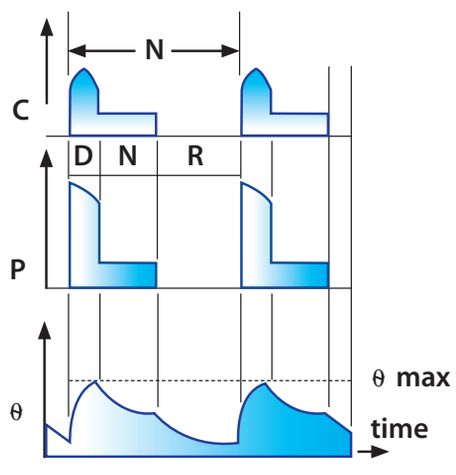


S2



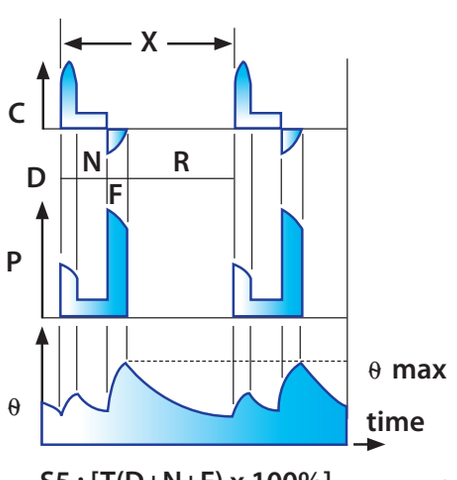
S3 : [N/(N+R) x 100%]

S3



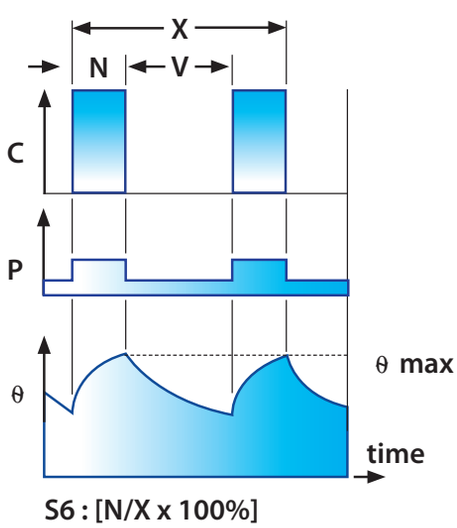
S4 : [(D+N)/(D+N+R) x 100%]

S4



S5 : [T(D+N+F) x 100%]

S5

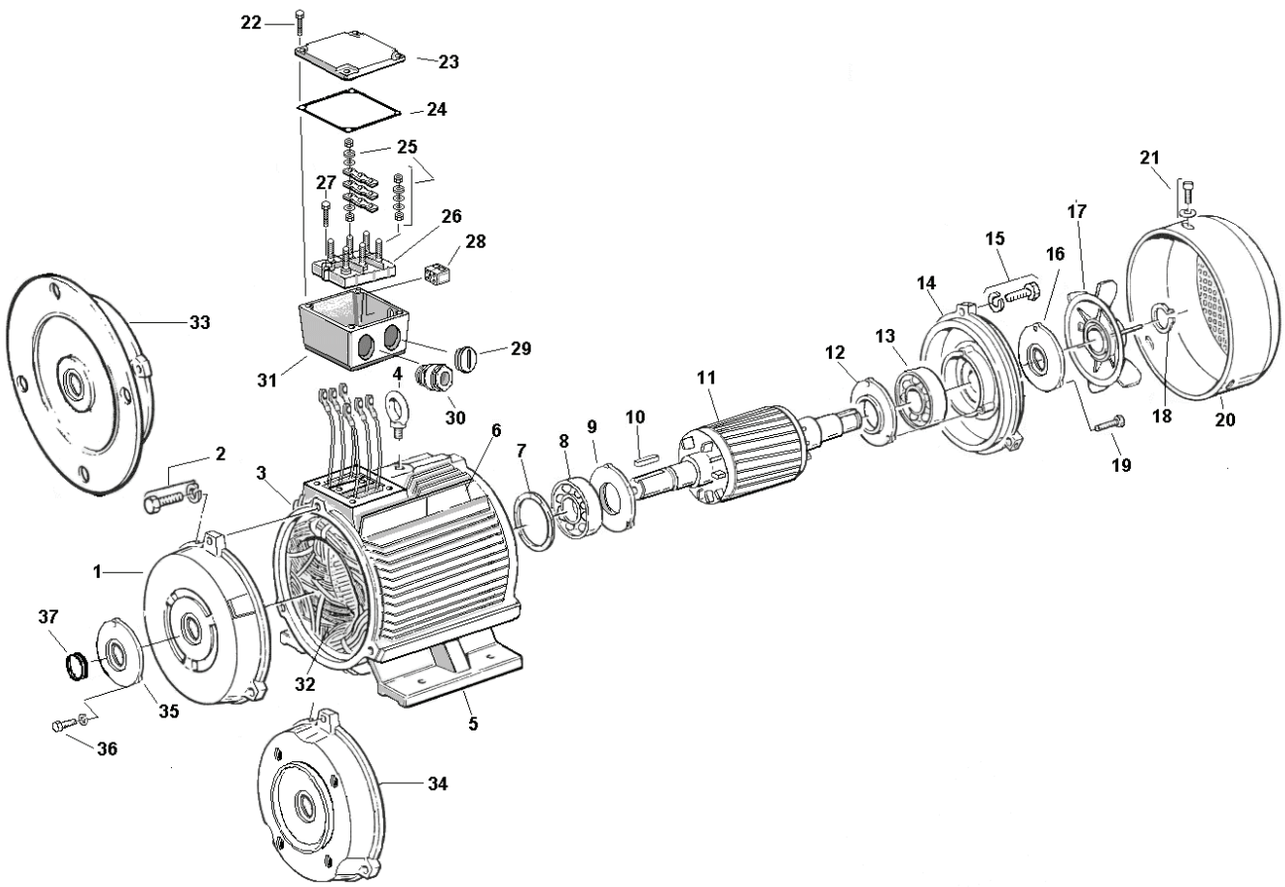


S6 : [N/X x 100%]

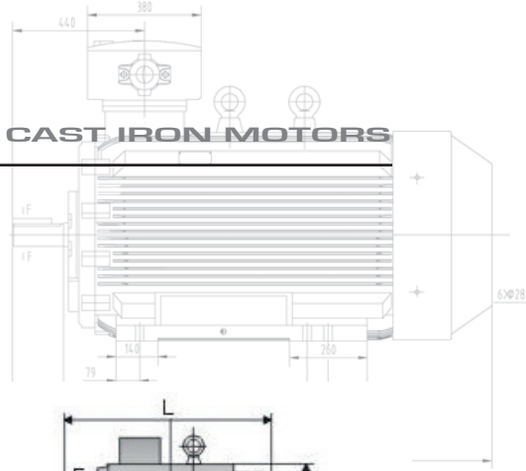
S6

The diagram of service graphically highlights the use of the motor over time, the types of operation are standardized and are identified with the abbreviation S followed by a number (ex.S1 = continouous service).

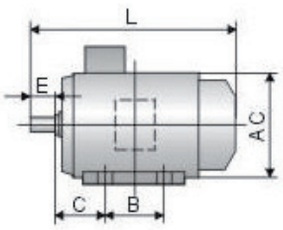
12. SPARE PARTS



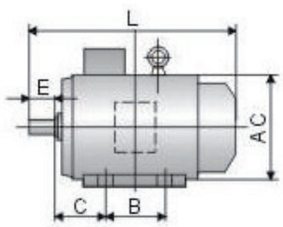
1. SHIELD B30
2. FIXING BOLT END SHIELD
3. STATOR FRAME
4. EYEBOLT
5. FEET
6. NAMEPLATE
7. SPRING WHASHER
8. BEARING D.E.
9. INNER BEARING CAP DE
10. KEY
11. ROTOR
12. INNER BEARING CAP NDE
13. BEARING NDE
14. SHIELD NDE
15. FIXING BOLT SHIELD NDE
16. OUTER BEARING CAP NDE
17. FAN
18. CIRCLIP
19. BOLT BEARING CAP NDE
20. COVER FAN
21. FAN COVER SCREW
22. TERMINAL BOX SCREW
23. TERMINAL BOX COVER
24. TERMINAL BOX GASKET
25. CONNECTION FIXATION NUTS
26. TERMINAL BOARD
27. TERMINAL BOARD HOLDER BOLT
28. TERMINAL BLOCK PTC
29. BLINDER
30. CABLE GLAND
31. TERMINAL BOX BASE
32. WINDING
33. FLANGE B5
34. FLANGE B1
35. BEARING CAP DE OUTSIDE
36. FIXING BOLT BEARING CAP OUTSIDE
37. GASKET



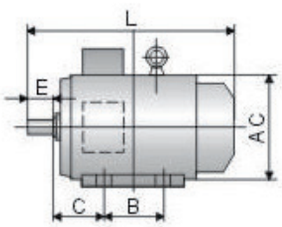
SERIES THREE-PHASE ASYNCHRONOUS INDUCTION MOTOR



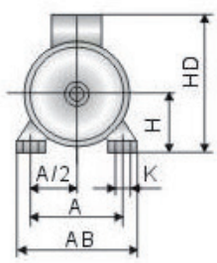
H63~90



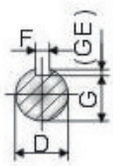
H100~132

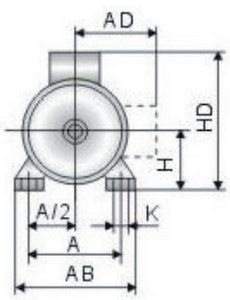


H160~355



H63~71

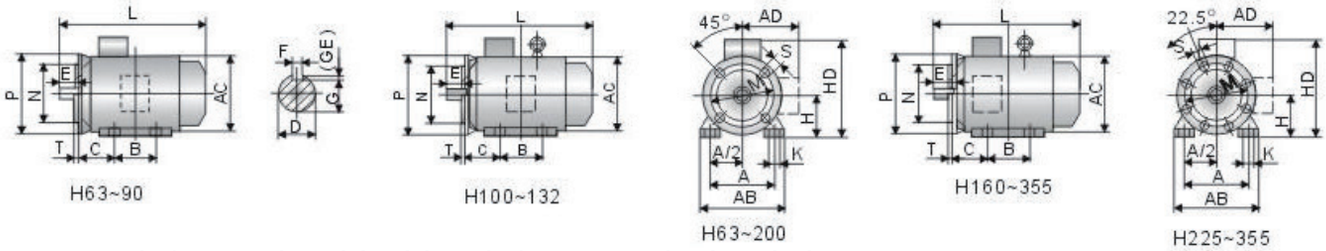




H80~355

Frame with feet and endshield without flange

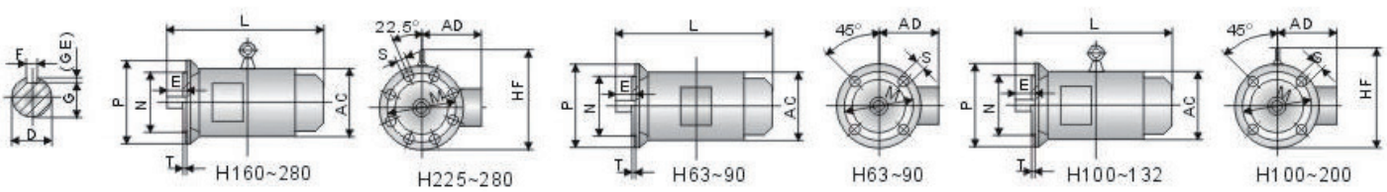
Frame size	Poles	Mounting dimensions										Overall dimensions				
		A	A/2	B	C	D	E	F	G	H	K	AB	AC	AD	HD	L
OM 63	2、4	100	50	80	40	11	23	4	8.5	63	7	135	130	70	180	225
OM 71	2、4、6	112	56	90	45	14	30	5	11	71		150	145	80	195	250
OM 80	2、4、6、8	125	62.5	100	50	19	40	6	15.5	80	10	165	175	145	214	295
OM 90S		140	70	100	56	24	50	8	20	90		180	195	155	250	315
OM 90L				125												340
OM 100L		160	80	140	63	28	60		24	100	12	205	215	180	270	385
OM 112M		190	95	140	70					112		230	240	190	300	400
OM 132S		216	108	140	89	38	80	10	33	132		270	275	210	345	470
OM 132M				178												510
OM160M		254	127	210	108	42	110	12	37	160	15	320	330	255	420	615
OM 160L				254												670
OM 180M		279	139.5	241	121	48		14	42.5	180		355	380	280	455	700
OM 180L				279												740
OM 200L		318	159	305	133	55		16	49	200	19	395	420	305	505	770
OM 225S	4、8	356	178	286	149	60	140	18	53	225		435	470	335	555	815
OM 225M	2			311		55	110	16	49							820
	4、6、8					60	140	18	53							845
OM 250M	2	406	203	349	168					250	24	490	510	370	615	910
	4、6、8					65			58							
OM 280S	2	457	228.5	368	190					280		550	580	410	680	985
	4、6、8					75		20	67.5							
OM 280M	2			419		65		18	58							1035
	4、6、8					75		20	67.5							
OM 315S	2	508	254	406	216	65		18	58	315	28	635	645	530	845	1160
	4、6、8、10					80	170	22	71							1210
OM 315M	2			457		6	140	18	58							1290
	4、6、8、10					80	170	22	71							1300
OM 315 L	2			508		65	140	18	58							1290
	4、8					80	170	22	71							1320
OM 355M	2	610	305	560	254	75	140	20	67.5	355		730	710	655	1010	1500
	4、6、8、10					95	170	25	86							1530
OM 355L	2			630		75	140	20	67.5							1500
	4、6、8、10					95	170	25	86							1530



Frame with feet and endshield with flange (with plain holes)

Frame size	Flange NO.	Poles	Mounting dimensions A	A/2	B	C	D	E	F	G	H	K	M	N	P	R*	S	T	Flangeholes.	Overall dimensions AB	AC	AD	HD	L
OM 63	FF115	2.4	100	50	80	40	11	23	4	8.5	63	7	115	95	140		10	3		135	130	70	180	225
OM 71	FF130	2.4.6	112	56	90	45	14	30	5	11	71		130	110	160					150	145	80	195	250
OM 80	FF165		125	62.5	100	50	19	40	6	15.5	80	10	165	130	200		12	3.5		165	175	145	214	295
OM 90S			140	70	100	56	24	50	8	20	90									180	195	155	250	315
OM 90L					125																			340
OM 100L	FF215		160	80	140	63	28	60		24	100	12	215	180	250		15	4	4	205	215	180	270	385
OM 112M			190	95	140	70					112									230	240	190	300	400
OM 132S	FF265	2.4.6.8	216	108	140	89	38	80	10	33	132		265	230	300					270	275	210	345	470
OM 132M					178																			510
OM160M	FF300		254	127	210	108	42	110	12	37	160	15	300	250	350		19	5		320	330	255	420	615
OM 160L					254																			670
OM 180M			279	139.5	241	121	48		14	42.5	180									335	380	280	455	700
OM 180L					279																			740
OM 200L	FF350		318	159	305	133	55		16	49	200		350	300	400					395	420	305	505	770
OM 225S	FF400	4.8	356	178	286	149	60	140	18	53	225	19	400	350	450	0				435	470	335	555	815
OM 225M		2			311		55	110	16	49														820
		4.6.8					60			53														845
OM 250M	FF500	2	406	203	349	168			18		250	24	500	450	550		19			490	510	370	615	900
		4.6.8					65			58														
OM 280S		2	457	228.5	368	190	75	140	20	67.5	280									550	580	410	680	985
		4.6.8																						
OM 280M		2			419		65		18	58														1035
		4.6.8					75		20	67.5									8					
OM 315S	FF600	2	508	254	406	216	65	140	18	58	315	28	600	550	660		24	6		635	645	530	845	1160
		4.6.8.10					80	170	22	71														1210
OM 315M		2			457		6	140	18	58														1290
		4.6.8.10					80	170	22	71														1300
OM 315 L		2			508		65	140	18	58														1290
		4.8					80	170	22	71														1320
OM 355M	FF740	2	610	305	560	254	75	140	20	67.5	355		740	680	800					730	710	655	1010	1500
		4.6.8.10					95	170	25	86														1530
OM 355L		2			630		75	140	20	67.5														1500
		4.6.8.10					95	170	25	86														1530

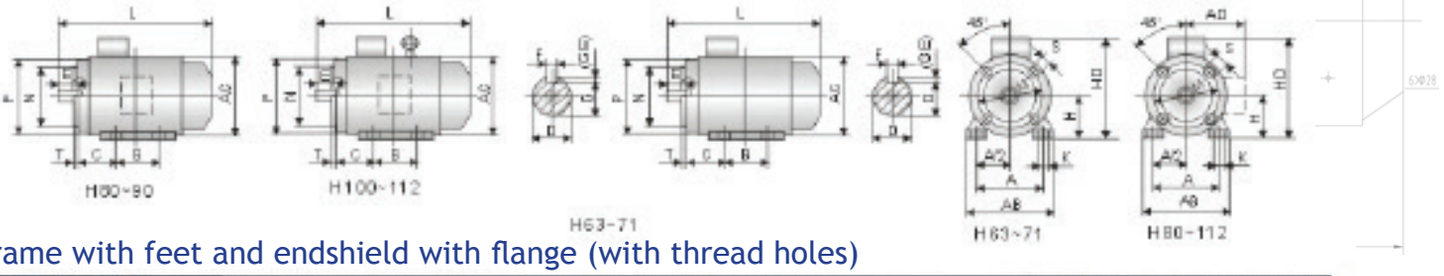
Note: R is the distance from the flange mounting-plane to the shaft - extension shoulder.



Frame without feet and endshield with flange (with thread holes)

Frame size	Flange NO.	Poles	Mounting dimensions D	E	F	G	M	N	P	R*	S	T	凸缘孔数 Flangeholes.	外形尺寸Overall dimensions AC	AD	HF	L
OM 63	FF115	2.4	11	23	4	8.5	115	95	140		10	3		130	70	130	225
OM 71	FF130	2.4.6	14	30	5	11	130	110	160					145	80	145	250
OM 80	FF165		19	40	6	15.5	165	130	200		12	3.5		175	145	185	295
OM 90S			24	50	8	20								195	155	195	315
OM 90L																	340
OM 100L	FF215		28	60		24	215	180	250		15	4	4	215	180	245	385
OM 112M														240	190	265	400
OM 132S	FF265	2.4.6.8	38	80	10	33	265	230	300					275	210	315	470
OM 132M																	510
OM160M	FF300		42	110	12	37	300	250	350	0	19	5	8	330	255	385	615
OM 160L																	670
OM 180M			48		14	42.5								380	280	430	700
OM 180L																	740
OM 200L	FF350		55		16	49	350	300	400					420	305	480	770
OM 225S	FF400	4.8	60	140	18	53	400	350	450					470	335	535	815
OM 225M		2	55	110	16	49											820
		4.6.8	60	140	18	53	500	450	550					510	370	595	845
OM 250M	FF500	2															910
		4.6.8	65			58											
OM 280S		2												580	410	650	985
		4.6.8	75		20	67.5											
OM 280M		2	65		18	58											1035
		4.6.8	75		20	67.5											

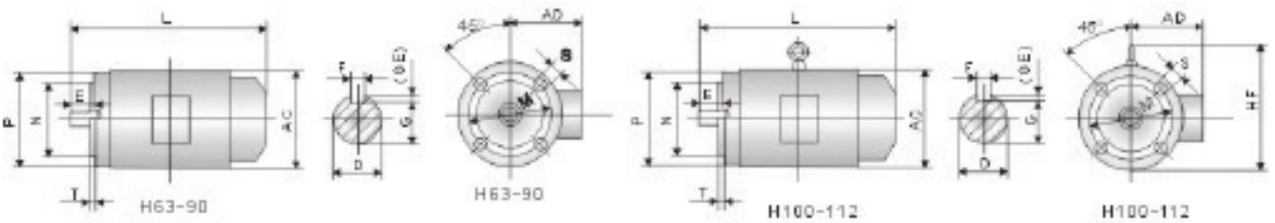
Note: R is the distance from the flange mounting-plane to the shaft - extension shoulder.



Frame with feet and endshield with flange (with thread holes)

Frame size	Flange NO.	Poles	Mounting dimensions											Overall dimensions				
			D	E	F	G	M	N	P	R*	S	T	Flangeholes.	AB	AC	AD	HD	L
OM 63	FT75	2.4	11	23	4	8.5	75	60	90	0	M5	2.5	4	135	130	70	180	225
OM71	FT85	2.4.6	14	30	5	11	85	70	105		M6			150	145	80	195	250
OM 80	FT100	2.4.6.8	19	40	6	15.5	100	80	120					165	175	145	214	295
OM 90S	FF115		24	50	8	20	115	95	140		M8	3.0		180	195	155	250	315
OM 90L																		340
OM 100L	FT130		28	60		24	130	110	160			3.5		205	215	180	270	385
OM 112M														230	240	190	300	400
OM 132S	FT165		38	80	10	33	165	130	200		M10			270	275	210	345	470
OM 132M																		510

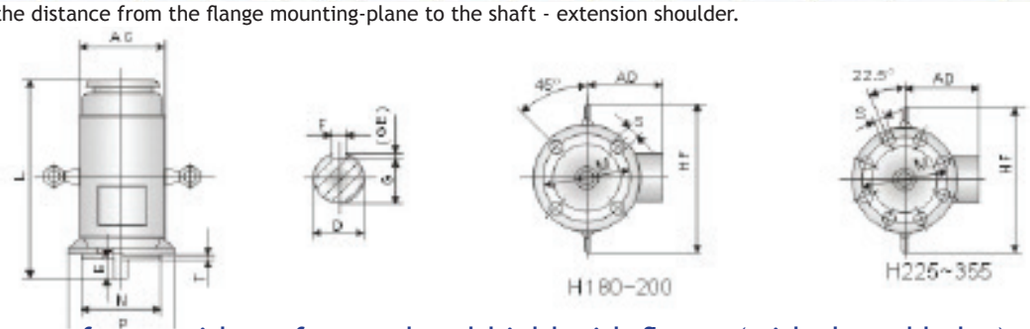
Note: R is the distance from the flange mounting-plane to the shaft - extension shoulder.



Frame without feet and endshield with flange (with thread holes)

Frame size	Flange NO.	Poles	Mounting dimensions											Overall dimensions			
			D	E	F	G	M	N	P	R*	S	T	Flangeholes.	AC	AD	HF	L
OM 63	Ft75	2.4	11	23	4	8.5	75	60	90	0	M5	2.5	4	130	70	130	225
OM71	FT85	2.4.6	14	30	5	11	85	70	105		M6			145	80	145	250
OM 80	FT100	2.4.6.8	19	40	6	15.5	100	80	120					175	145	185	295
OM 90S	FF115		24	50	8	20	115	95	140		M8	3.0		195	155	195	315
OM 90L																	340
OM 100L	FT130		28	60		24	130	110	160			3.5		215	180	245	385
OM 112M														240	190	265	400
OM 132S	FT165		38	80	10	33	165	130	200		M10			275	210	315	470
OM 132M																	510

Note: R is the distance from the flange mounting-plane to the shaft - extension shoulder.

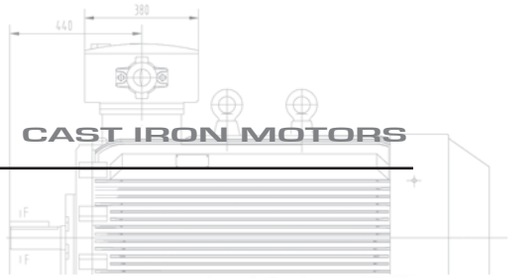


Vertical type,frame without feet and endshield with flange (with thread holes)

Frame size	Flange NO.	Poles	Mounting dimensions											Overall dimensions			
			D	E	F	G	M	N	P	R*	S	T	Flangeholes.	AC	AD	HF	L
OM 180M	FF300	2.4.6.8	48	110	14	42.5	300	250	350	0	19	5	4	380	280	500	760
OM 180L																	800
OM 200L	FF350		55		16	49	350	300	400					420	305	550	840
OM 225S	FF400	4.8	60	140	18	53	400	350	450				8	470	335	610	905
OM 225M		2	55	110	16	49											910
		4.6.8															935
OM 250M	FF500	2	60	140	18	53	500	450	550					510	370	650	1015
		4.6.8	65			58											
OM 280S		2												580	410	720	1110
		4.6.8	75		20	67.5											
OM 280M		2	65		18	58											1150
		4.6.8	75		20	67.5											
OM 315S	FF600	2	65		18	58	600	550	660		24	6		645	530	900	1280
		4.6.8.10	80	170	22	71											1510
OM 315M		2	65	140	18	58											1310
		4.6.8.10	80	170	22	71											1430
OM 315L		2	65	140	18	58											1310
		4.6.8.10	80	170	22	71											1430
OM 355M	FF740	2	75	140	20	67.5	740	680	800					710	655	1010	1640
		4.6.8.10	95	170	25	86											1670
OM 355L		2	75	140	20	67.5											1640
		4.6.8.10	95	170	25	86											1670

ELECTRIC MOTORS

Model	Output		Current (A)		Speed (r/min)	Efficiency (%)	Power Factor	Tstart/Tn	Ist/In	Tmax/Tn
	kW	HP	380 V	400 V						
380V 50Hz Synchronous Speed 3000 r/min (2 Poles)										
OM 63A - 2	0.18	0.24	0.53	0.50	2730	65.0	0.80	2.2	5.5	2.2
OM 63B - 2	0.25	0.33	0.66	0.60	2730	70.0	0.81	2.6	5.5	2.6
OM 71A - 2	0.37	0.50	0.95	0.90	2750	72.3	0.82	2.4	6.1	2.5
OM 71B - 2	0.55	0.75	1.33	1.26	2790	76.0	0.82	2.4	6.1	2.9
OM 80A - 2	0.75	1	1.83	1.74	2845	76.1	0.83	2.4	7.0	2.5
OM 80B - 2	1.1	1.5	2.60	2.5	2840	76.2	0.83	2.5	7.0	2.5
OM 90S - 2	1.5	2	3.50	3.3	2840	78.8	0.84	2.7	7.0	2.8
OM 90L - 2	2.2	3	4.80	4.6	2840	81.0	0.84	2.5	6.0	2.8
OM 100L - 2	3.0	4	6.40	6.1	2830	82.8	0.87	2.2	7.5	2.5
OM 112M - 2	4.0	5.5	8.10	7.7	2890	84.2	0.88	2.3	7.1	2.3
OM 132SA - 2	5.5	7.5	11.0	10.5	2910	85.9	0.88	2.3	7.5	2.5
OM 132SB - 2	7.5	10	15.0	14.3	2905	87.3	0.88	2.2	7.5	2.4
OM 160MA - 2	11	15	22.0	20	2935	88.6	0.89	2.3	7.7	3.1
OM 160MB - 2	15	20	29.0	27	2935	89.4	0.90	2.4	7.6	3.1
OM 160L - 2	18.5	25	35.0	33	2935	90.1	0.91	2.7	7.7	3.2
OM 180M - 2	22	30	41.0	39	2940	90.6	0.90	2.0	7.7	2.7
OM 200LA - 2	30	40	56.0	53	2945	91.6	0.90	2.1	6.9	2.8
OM 200LB - 2	37	50	68.0	64	2945	92.2	0.90	2.2	7.0	2.6
OM 225M - 2	45	60	81.0	77	2950	92.7	0.90	2.4	7.3	3.1
OM 250M - 2	55	75	100	95	2965	93.1	0.90	2.6	7.6	3.1
OM 280S - 2	75	100	134	127	2965	93.8	0.91	2.2	7.8	2.5
OM 280M - 2	90	125	160	152	2965	94.1	0.91	2.2	7.8	2.5
OM 315S - 2	110	150	196	186	2975	94.4	0.91	1.8	7.1	2.4
OM 315M - 2	132	180	234	222	2975	94.9	0.91	1.8	7.1	2.4
OM 315LA - 2	160	215	280	266	2975	95.1	0.92	1.8	7.1	2.5
OM 315LB - 2	200	270	348	331	2975	95.2	0.92	1.8	7.1	2.5
OM 355M - 2	250	340	432	410	2970	95.3	0.92	1.6	7.3	2.2
OM 355L - 2	315	420	543	515	2970	95.6	0.92	1.6	7.3	2.2
380V 50Hz Synchronous Speed 1500 r/min (4 Poles)										
OM 63A - 4	0.12	0.16	0.44	0.42	1320	57.0	0.72	2.4	5.2	2.2
OM 63B - 4	0.18	0.24	0.63	0.60	1320	60.0	0.72	2.4	5.2	2.5
OM 71A - 4	0.25	0.33	0.83	0.79	1350	65.0	0.70	2.5	5.2	3.0
OM 71B - 4	0.37	0.50	1.10	1.0	1340	67.0	0.75	2.5	5.2	3.1
OM 80A - 4	0.55	0.75	1.50	1.4	1390	71.0	0.77	2.5	5.3	2.5
OM 80B - 4	0.75	1.0	2.0	1.9	1380	74.4	0.77	2.5	5.3	2.5
OM 90S - 4	1.1	1.5	3.0	2.9	1390	76.3	0.75	2.5	4.7	2.3
OM 90L - 4	1.5	2	3.9	3.7	1390	78.5	0.76	2.2	5.2	2.6
OM 100LA - 4	2.2	3	5.2	4.9	1410	81.2	0.81	2.3	6.8	2.5
OM 100LB - 4	3.0	4	6.8	8.5	1410	82.8	0.82	2.3	7.1	2.5
OM 112M - 4	4.0	5.5	8.7	8.3	1440	84.2	0.82	2.3	6.4	2.6
OM 132S - 4	5.5	7.5	12	11	1445	85.7	0.83	2.3	7.0	2.5
OM 132M - 4	7.5	10	16	15	1445	87.2	0.84	2.3	7.0	2.5
OM 160M - 4	11	15	23	22	1460	88.4	0.85	2.4	7.0	2.9
OM 160L - 4	15	20	30	28	1460	89.5	0.85	2.6	7.6	2.9
OM 180M - 4	18.5	25	36	34	1470	90.2	0.87	2.2	7.0	3.0
OM 180L - 4	22	30	42	40	1470	90.6	0.87	2.2	7.0	2.7
OM 200L - 4	30	40	58	55	1470	91.4	0.86	2.2	7.2	3.0
OM 225S - 4	37	50	70	66	1475	92.2	0.87	2.2	6.9	2.8
OM 225M - 4	45	60	85	80	1475	92.5	0.87	2.2	7.0	3.0
OM 250M - 4	55	75	103	98	1475	93.1	0.87	2.2	7.4	2.8
OM 280S - 4	75	100	140	133	1485	93.7	0.87	2.2	7.5	2.4
OM 280M - 4	90	125	167	159	1485	93.9	0.87	2.2	7.5	2.4
OM 315S - 4	110	150	201	191	1485	94.5	0.88	2.2	6.9	2.7
OM 315M - 4	132	180	241	229	1485	94.8	0.88	2.2	6.9	2.6
OM 315LA - 4	160	215	288	273	1485	95.1	0.89	2.2	6.9	2.4
OM 315LB - 4	200	270	350	342	1485	95.2	0.89	2.2	6.9	2.4
OM 355M - 4	250	340	440	415	1490	95.3	0.91	2.3	6.8	2.3
OM 355L - 4	315	420	550	520	1490	95.6	0.91	2.3	6.8	2.3



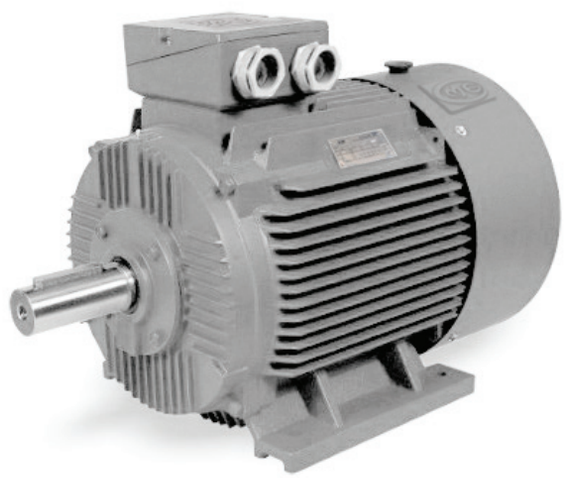
Model	Output		Current (A)		Speed (r/min)	Efficiency (%)	Power Factor	Tstart/Tn	Ist/In	Tmax/Tn
	kW	HP	380 V	400 V						
380V 50Hz Synchronous Speed 1000 r/min (6 Poles)										
OM 71A - 6	0.18	0.24	0.70	0.67	865	59.0	0.66	2.3	4.0	2.4
OM 71B - 6	0.25	0.33	0.90	0.83	865	64.0	0.68	2.0	4.0	2.0
OM 80A - 6	0.37	0.50	1.20	1.1	885	62.5	0.76	2.0	4.7	2.1
OM 80B - 6	0.55	0.75	1.70	1.5	885	69.0	0.76	2.0	4.7	2.1
OM 90S - 6	0.75	1	2.40	2.3	915	72.4	0.71	2.0	5.5	2.2
OM 90L - 6	1.1	1.5	3.30	3.1	915	75.2	0.72	2.0	5.5	2.2
OM 100L - 6	1.5	2	4.00	3.7	940	77.4	0.76	2.1	6.2	2.2
OM 112M - 6	2.2	3	5.50	5.0	980	79.8	0.76	2.2	5.0	2.2
OM 132S - 6	3.0	4	7.50	7.0	960	81.4	0.76	2.2	6.3	2.8
OM 132MA - 6	4.0	5.5	10.0	9.5	960	83.2	0.76	2.4	6.4	2.9
OM 132MB - 6	5.5	7.5	13.0	12	960	84.6	0.77	2.4	6.5	2.8
OM 160M - 6	7.5	10	17.0	16	970	86.2	0.78	2.0	6.5	2.3
OM 160L - 6	11	15	24.0	23	970	87.6	0.79	2.0	6.5	2.3
OM 180L - 6	15	20	31.0	29	970	88.9	0.83	2.1	7.0	2.2
OM 200LA - 6	18.5	25	38.0	38	975	89.6	0.82	2.1	6.5	2.8
OM 200LB - 6	22	30	45.0	42	975	90.4	0.83	2.1	6.5	2.7
OM 225M - 6	30	40	58.0	55	980	91.1	0.85	2.1	6.9	2.5
OM 250M - 6	37	50	71.0	68	980	91.7	0.86	2.3	6.9	2.3
OM 280S - 6	45	60	86.0	82	980	92.3	0.86	2.3	7.0	2.7
OM 280M - 6	55	75	105	100	980	92.8	0.86	2.3	7.0	2.7
OM 315S - 6	75	100	142	135	980	93.6	0.86	2.0	7.0	2.4
OM 315M - 6	90	125	170	160	935	93.9	0.86	2.0	7.0	2.4
OM 315LA - 6	110	150	207	197	935	94.3	0.86	2.1	7.0	2.4
OM 315LB - 6	132	180	245	233	935	94.8	0.87	2.1	7.0	2.3
OM 355MA - 6	160	215	293	277	935	94.9	0.88	2.0	7.0	2.0
OM 355MB - 6	200	270	363	345	990	95.0	0.88	2.0	7.0	2.0
OM 355L - 6	250	340	450	425	990	95.0	0.89	2.3	7.0	2.5
380V 50Hz Synchronous Speed 750 r/min (8 Poles)										
OM 80A - 8	0.18	0.25	0.82	0.78	630	52.0	0.64	1.8	3.5	2.0
OM 80B - 8	0.25	0.34	1.10	1.0	640	54.0	0.64	1.8	3.5	2.0
OM 90S - 8	0.37	0.50	1.60	1.5	660	59.0	0.60	1.9	4.0	2.3
OM 90L - 8	0.55	0.75	2.20	2.1	660	62.0	0.60	2.0	4.0	2.3
OM 100LA - 8	0.75	1	2.40	2.3	690	68.4	0.67	2.0	5.0	2.2
OM 100LB - 8	1.1	1.5	3.40	3.2	690	71.6	0.69	1.8	5.0	2.2
OM 112M - 8	1.5	2	4.00	3.8	680	74.6	0.75	2.0	5.0	2.5
OM 132S - 8	2.2	3	6.00	5.7	710	77.8	0.71	1.8	6.0	2.5
OM 132M - 8	3.0	4	7.90	7.5	710	79.8	0.73	1.8	6.0	2.4
OM 160MA - 8	4.0	5.5	10.3	9.8	720	81.5	0.73	1.9	6.0	2.0
OM 160MB - 8	5.5	7.5	13.6	12.8	720	83.4	0.74	2.0	6.0	2.0
OM 160L - 8	7.5	10	18.0	17	720	85.5	0.75	2.0	6.0	2.0
OM 180L - 8	11	15	25.0	24	730	87.0	0.76	2.2	6.2	2.0
OM 200L - 8	15	20	35.0	32	730	88.5	0.76	2.2	6.2	2.8
OM 225S - 8	18.5	25	40.0	38	730	89.6	0.77	2.2	6.8	2.8
OM 225M - 8	22	30	47.0	44	740	89.7	0.80	2.2	6.7	2.3
OM 250M - 8	30	40	63.0	60	740	90.9	0.80	1.9	5.5	2.9
OM 280S - 8	37	50	78.0	74	740	91.5	0.79	2.0	6.6	2.8
OM 280M - 8	45	60	95.0	90	740	92.0	0.79	2.0	6.6	2.4
OM 315S - 8	55	75	115	110	740	92.8	0.81	1.8	6.6	2.4
OM 315M - 8	75	100	150	145	740	93.5	0.81	1.8	6.6	2.2
OM 315LA - 8	90	125	180	170	740	93.8	0.82	1.8	6.6	2.2
OM 315LB - 8	110	150	220	205	740	94.1	0.82	1.9	6.6	2.3
OM 355MA - 8	132	180	265	250	740	94.4	0.82	1.9	6.5	2.3
OM 355MB - 8	160	215	315	300	740	94.7	0.83	1.9	6.5	2.0
OM 355L - 8	200	270	386	367	740	94.8	0.83	1.9	6.5	2.0
380V 50Hz Synchronous Speed 600 r/min (10 Poles)										
OM 315S - 10	45	60	100	95	590	91.5	0.75	1.5	6.2	2.0
OM 315M - 10	55	75	122	115	590	92.0	0.75	1.5	6.2	2.0
OM 315LA - 10	75	100	163	155	590	92.5	0.76	1.5	6.2	2.0
OM 315LB - 10	90	125	191	182	590	93.0	0.77	1.5	6.2	2.0
OM 355MA - 10	110	150	230	218	590	93.2	0.78	1.3	6.0	2.0
OM 355MB - 10	132	180	275	261	590	93.5	0.78	1.3	6.0	2.0
OM 355L - 10	160	215	333	317	590	93.5	0.78	1.3	6.0	2.0

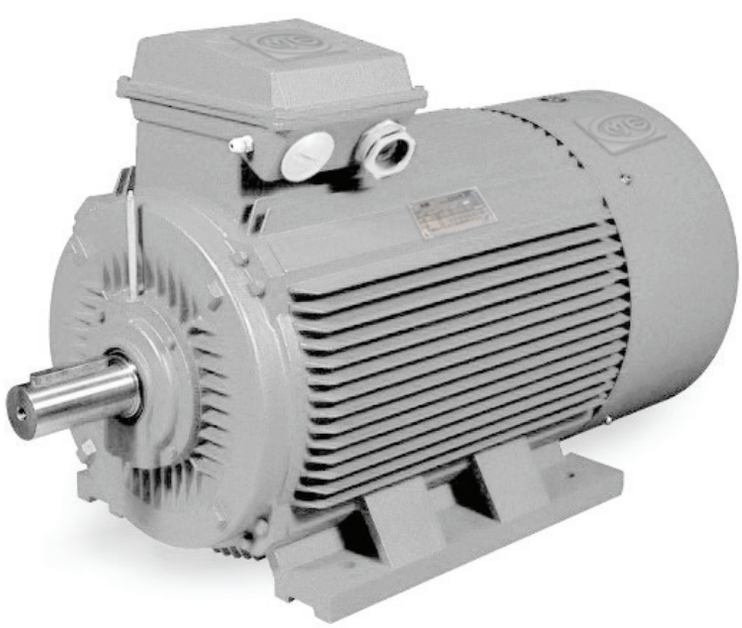
1. GENERAL INTRODUCTION DOUBLE SPEED MOTORS

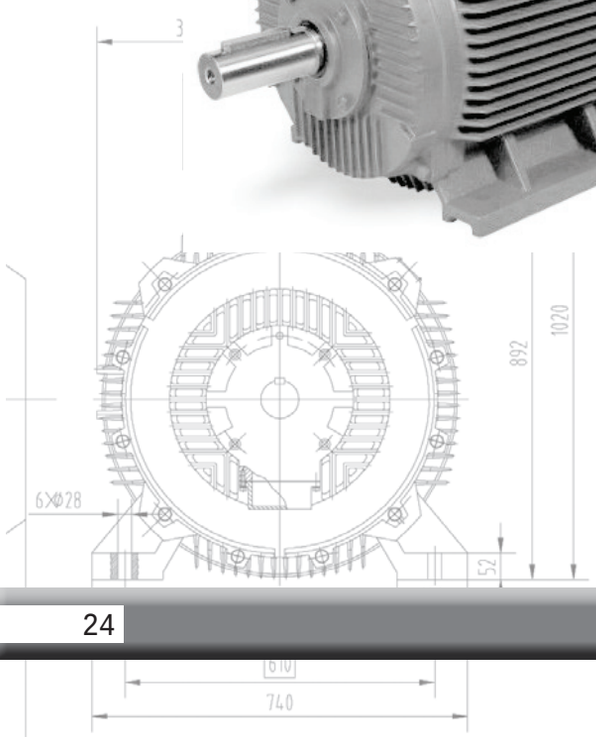
OM series three phase multi-speed induction motors are one of the derived series of IE1 series induction motors of our national uniform design. It has following features: excellent performance, attractive appearance and good interchangeabitity for the same kind of products abroad.
The motors are designed in three types: double speed, three speed and four speed. These speed rates can be switched. The motors are widely used on applications in the equipments where the changed rates in stages are needed, such as mechanism, mine, metallurgy, textiles, printing and dyeing, chemical industry, agricultural machinery, etc. They can also simplify or take the place of reduction gearbox in the mechanical drive lines.

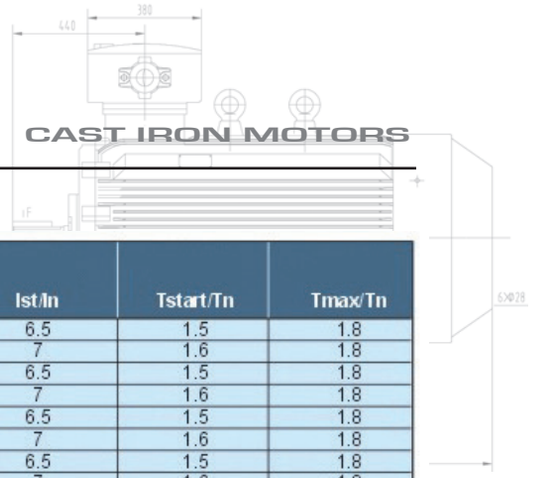
2. OPERATING CONDITIONS

Ambient temperature: -15° C + 40°C on request up to 55° C.
Altitude: not exceed 1.000 m.
Rated voltage: V.380
Rated frequency: HZ 50, HZ 60.
Protection class: IP54, IP55.
Insulation class: F.
Temperature rise: Class B
Cooling method: IC 411
Duty: S1 (continuous).
On request SKF or NSK Bearings.
On request Heaters, Klixon.









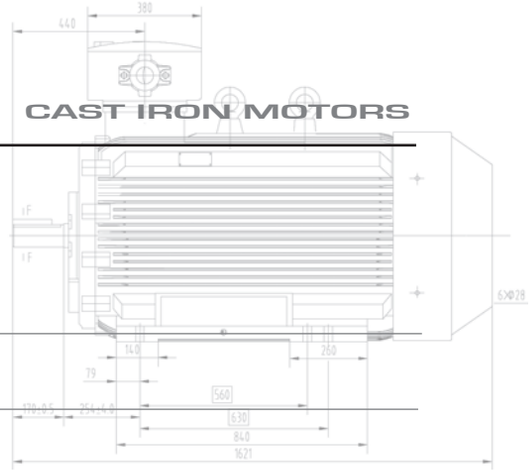
TECHNICAL DATA (380V HZ50)

Model		Speed (r/min)	Output (kW)	Current (A)	Eff (%)	Power Factor	Ist/In	Tstart/Tn	Tmax/Tn
OM 80A	4	1420	0.45	1.4	66	0.74	6.5	1.5	1.8
	2	2860	0.55	1.5	65	0.85	7	1.6	1.8
OM 80B	4	1420	0.55	1.7	68	0.74	6.5	1.5	1.8
	2	2860	0.75	2.0	66	0.85	7	1.6	1.8
OM 90S	4	1430	0.85	2.3	74	0.77	6.5	1.5	1.8
	2	2850	1.1	2.8	73	0.84	7	1.6	1.8
OM 90L	4	1430	1.3	3.3	76	0.78	6.5	1.5	1.8
	2	2850	1.8	4.3	74	0.84	7	1.6	1.8
OM 100LA	4	1430	2	4.8	78	0.81	6.5	1.5	1.8
	2	2850	2.4	5.6	76	0.86	7	1.6	1.8
OM 100LB	4	1430	2.4	5.6	79	0.83	6.5	1.5	1.8
	2	2850	3	6.7	77	0.89	7	1.6	1.8
OM 112M	4	1450	3.3	7.4	81	0.83	6.5	1.5	1.8
	2	2860	4	8.6	80	0.88	7	1.6	1.8
OM 132S	4	1450	4.5	9.8	83	0.84	6.5	1.5	1.8
	2	2860	5.5	11.9	79	0.88	7	1.6	1.8
OM 132M	4	1450	6.5	13.8	84	0.85	6.5	1.5	1.8
	2	2880	8	17.1	80	0.89	7	1.6	1.8
OM 160M	4	1460	9	18.5	87	0.85	6.5	1.5	1.8
	2	2920	11	22.9	82	0.89	7	1.6	1.8
OM 160L	4	1460	11	22.3	87	0.86	6.5	1.5	1.8
	2	2920	14	28.8	82	0.90	7	1.6	1.8
OM 180M	4	1470	15	29.4	89	0.87	6.5	1.5	1.8
	2	2940	18.5	36.7	85	0.90	7	1.6	1.8
OM 180L	4	1470	18.5	35.9	89	0.88	6.5	1.5	1.8
	2	2940	22	42.7	86	0.91	7	1.6	1.8
OM 200L	4	1470	26	49.9	89	0.89	6.5	1.4	1.8
	2	2950	30	58.3	85	0.92	7	1.4	1.8
OM 225S	4	1480	32	60.7	90	0.89	6.5	1.4	1.8
	2	2960	37	71.7	86	0.92	7	1.4	1.8
OM 225M	4	1480	37	69.4	91	0.89	6.5	1.4	1.8
	2	2960	45	86.4	87	0.92	7	1.4	1.8
OM 250M	4	1480	45	84.4	91	0.89	6.5	1.4	1.8
	2	2960	55	103.2	88	0.92	7	1.4	1.8
OM 280S	4	1480	60	111.3	91	0.90	6.5	1.4	1.8
	2	2970	72	135.1	88	0.92	7	1.4	1.8
OM 280M	4	1480	72	133.6	91	0.90	6.5	1.4	1.8
	2	2970	82	152.2	88	0.93	7	1.4	1.8
OM 90S	6	920	0.65	2.2	64	0.70	6	1.4	1.8
	4	1420	0.85	2.3	70	0.79	6.5	1.3	1.8
OM 90L	6	930	0.85	2.8	66	0.70	6	1.4	1.8
	4	1420	1.1	3.0	71	0.79	6.5	1.3	1.8
OM 100LA	6	940	1.3	3.8	74	0.70	6	1.4	1.8
	4	1440	1.8	4.4	77	0.80	6.5	1.3	1.8
OM 100LB	6	940	1.5	4.3	75	0.70	6	1.4	1.8
	4	1440	2.2	5.4	77	0.80	6.5	1.4	1.8
OM 112M	6	960	2.2	5.7	77	0.75	6	1.4	1.8
	4	1440	2.8	6.7	77	0.82	6.5	1.3	1.8
OM 132S	6	960	3	7.7	79	0.70	6	1.4	1.8
	4	1440	4	9.5	80	0.82	6.5	1.3	1.8
OM 132M	6	960	4	9.8	81	0.76	6	1.4	1.8
	4	1440	5.5	12.3	80	0.85	6.5	1.3	1.8
OM 160M	6	970	6.5	15.1	84	0.78	6	1.4	1.8
	4	1460	8	17.4	83	0.85	6.5	1.3	1.8
OM 160L	6	970	9	20.6	85	0.78	6	1.4	1.8
	4	1460	11	23.4	84	0.85	6.5	1.3	1.8
OM 180M	6	980	11	25.9	85	0.78	6	1.4	1.8
	4	1470	14	29.8	85	0.85	6.5	1.3	1.8
OM 180L	6	980	13	29.4	86	0.78	6	1.4	1.8
	4	1470	16	33.6	85	0.85	6.5	1.3	1.8
OM 200L	6	980	18.5	41.4	87	0.78		1.4	1.8
	4	1460	22	44.7	87	0.86	6.5	1.3	1.8
OM 225S	6	980	22	44.2	88	0.86	6.5	1.4	1.8
	4	1470	28	56.2	87	0.87	7	1.3	1.8
OM 225M	6	980	26	52.2	88	0.86	6.5	1.4	1.8
	4	1470	34	66.0	87	0.90	7	1.3	1.8
OM 250M	6	980	32	62.1	90	0.87	6.5	1.4	1.8
	4	1470	42	74.7	88	0.91	7	1.3	1.8
OM 280S	6	980	42	81.5	90	0.87	6.5	1.4	1.8
	4	1470	55	104.2	89	0.90	7	1.3	1.8
OM 280M	6	990	55	106.7	90	0.87	6.5	1.4	1.8
	4	1480	72	138.1	89	0.89	7	1.3	1.8
OM 90L	8	680	0.45	1.9	58	0.63	5.5	1.5	1.8
	4	1420	0.75	1.92	72	0.87	6.5	1.5	1.8
OM 100L	8	700	0.85	3.1	68	0.63	5.5	1.5	1.8
	4	1420	1.5	3.5	75	0.88	6.5	1.5	1.8
OM 112M	8	700	1.5	5.0	72	0.63	5.5	1.5	1.8
	4	1420	2.4	5.3	78	0.88	6.5	1.5	1.8
OM 132S	8	720	2.2	7.0	75	0.64	5.5	1.5	1.8
	4	1440	3.3	7.1	80	0.88	6.5	1.5	1.8

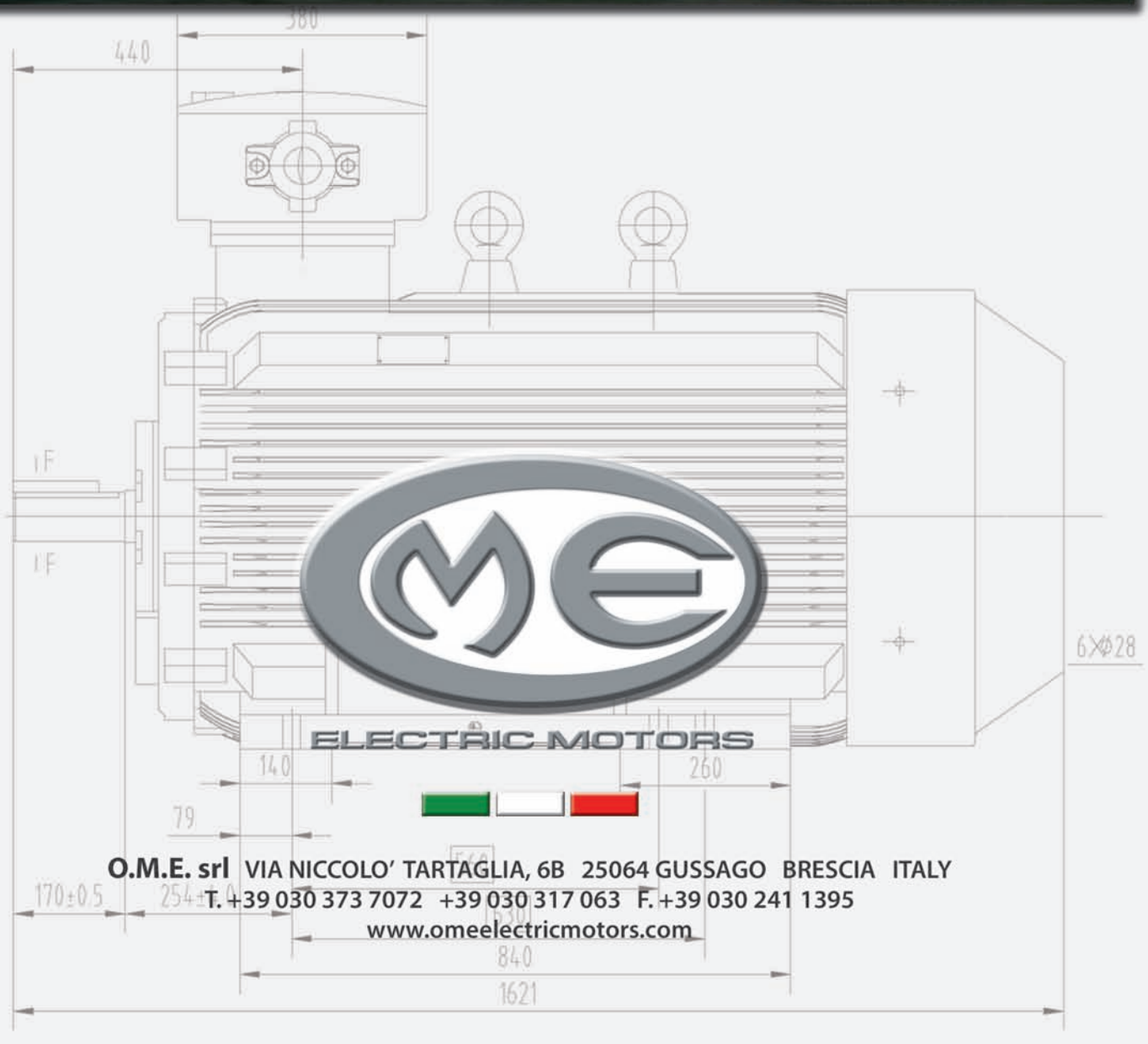
ELECTRIC MOTORS

TECHNICAL DATA (380V HZ50)

Model		Speed (r/min)	Output (kW)	Current (A)	Eff (%)	Power Factor	Ist/In	Tstart/Tn	Tmax/Tn
OM 132M	8	720	3	9.0	78	0.65	5.5	1.5	1.8
	4	1440	4.5	9.4	82	0.88	6.5	1.5	1.8
OM 160M	8	730	5	13.9	83	0.66	5.5	1.5	1.8
	4	1450	7.5	15.2	84	0.89	6.5	1.5	1.8
OM 160L	8	730	7	19.0	85	0.66	5.5	1.5	1.8
	4	1450	11	21.8	86	0.89	6.5	1.5	1.8
OM 180L	8	730	11	26.0	86	0.74	6	1.5	1.8
	4	1470	17	31.5	87	0.92	7	1.5	1.8
OM 200LA	8	740	14	33.0	86	0.74	6	1.5	1.8
	4	1470	22	41.3	88	0.92	7	1.5	1.8
OM 200LB	8	740	17	40.1	87	0.74	6	1.5	1.8
	4	1470	26	48.8	88	0.92	7	1.5	1.8
OM 225M	8	740	24	53.2	89	0.77	6	1.4	1.8
	4	1470	34	66.7	88	0.88	7	1.3	1.8
OM 250M	8	740	30	64.9	90	0.78	6	1.4	1.8
	4	1480	42	78.8	89	0.91	7	1.3	1.8
OM 280S	8	740	40	83.5	91	0.80	6	1.4	1.8
	4	1480	55	102	90	0.91	7	1.3	1.8
OM 280M	8	740	47	96.9	91	0.81	6	1.4	1.8
	4	1480	67	122.9	90	0.92	7	1.3	1.8
OM 90S	8	680	0.35	1.6	56	0.60	5	1.5	1.8
	6	930	0.45	1.4	70	0.72	6	1.5	1.8
OM 90L	8	680	0.45	1.9	59	0.60	5	1.5	1.8
	6	930	0.65	1.9	71	0.73	6	1.5	1.8
OM 100L	8	710	0.75	2.9	65	0.60	5	1.5	1.8
	6	950	1.1	3.1	75	0.73	6	1.5	1.8
OM 112M	8	710	1.3	4.5	72	0.61	5	1.5	1.8
	6	950	1.8	4.8	78	0.73	6	1.5	1.8
OM 132S	8	730	1.8	5.8	75	0.62	5	1.5	1.8
	6	970	2.4	6.2	80	0.73	6	1.5	1.8
OM 132M	8	730	2.6	8.2	78	0.62	5	1.5	1.8
	6	970	3.7	9.4	82	0.73	6	1.5	1.8
OM 160M	8	930	4.5	13.3	83	0.62	5	1.5	1.8
	6	980	6	14.7	85	0.73	6	1.5	1.8
OM 160L	8	930	6	17.5	84	0.62	5	1.5	1.8
	6	980	8	19.4	86	0.73	6	1.5	1.8
OM 180M	8	930	7.5	21.9	84	0.62	5	1.5	1.8
	6	980	10	24.2	86	0.73	6	1.5	1.8
OM 180L	8	730	9	24.8	85	0.65	5	1.5	1.8
	6	980	12	28.3	86	0.75	6	1.5	1.8
OM 200LA	8	730	12	32.5	86	0.65	5	1.5	1.8
	6	980	17	39.1	87	0.76	6	1.5	1.8
OM 200LB	8	730	15	40.3	87	0.65	5	1.5	1.8
	6	980	20	45.4	88	0.76	6	1.5	1.8
OM 100L	6/4/2	940/1420/2880	0.75/1.3/1.8	2.62/3.66/4.53	67/72/71	0.65/0.75/0.85	5.5/6/7	1.8/1.6/1.6	1.8/1.8/1.8
OM 112M	6/4/2	940/1440/2890	1.1/2/2.4	3.52/5.14/5.80	73/74/74	0.65/0.81/0.85	5.5/6/7	1.7/1.4/1.6	1.8/1.8/1.8
OM 132S	6/4/2	940/1440/2900	1.8/2.6/3	5.14/6.10/7.38	75/78/71	0.71/0.83/0.87	5.5/6/7	1.4/1.3/1.7	1.8/1.8/1.8
OM 132MA	6/4/2	940/1440/2900	2.2/3.3/4	6.03/7.46/8.79	77/80/76	0.72/0.84/0.91	5.5/6/7	1.3/1.3/1.7	1.8/1.8/1.8
OM 132MB	6/4/2	940/1440/2900	2.6/4/5	6.86/9.04/10.8	80/80/77	0.72/0.84/0.91	5.5/6/7	1.5/1.4/1.7	1.8/1.8/1.8
OM 160M	6/4/2	970/1490/2930	3.7/5/6	9.52/11.2/13.2	81/81/76	0.72/0.84/0.91	5.5/6/7	1.5/1.3/1.4	1.8/1.8/1.8
OM 160L	6/4/2	910/1460/2930	4.5/7/9	11.4/15.1/18.8	83/83/79	0.72/0.85/0.92	5.5/6/7	1.5/1.2/1.3	1.8/1.8/1.8
OM 112M	8/4/2	710/1440/2900	0.65/2/2.4	2.66/5.14/5.80	59/74/74	0.63/0.81/0.85	4.5/6/7	1.4/1.3/1.2	1.8/1.8/1.8
OM 132S	8/4/2	710/1440/2900	1/2.6/3	3.16/6.10/7.08	69/78/74	0.61/0.83/0.87	4.5/6/7	1.4/1.2/1.4	1.8/1.8/1.8
OM 132M	8/4/2	710/1440/2900	1.3/3.7/4.5	4.56/8.37/10.0	71/80/75	0.61/0.84/0.91	4.5/6/7	1.5/1.3/1.4	1.8/1.8/1.8
OM 160M	8/4/2	720/1460/2930	2.2/5/6	7.55/11.2/13.2	75/81/76	0.59/0.84/0.91	4.5/6/7	1.4/1.3/1.4	1.8/1.8/1.8
OM 160L	8/4/2	720/1460/2930	2.8/7/9	9.21/15.10/18.80	77/83/79	0.60/0.85/0.92	5.5/6.5/7	1.3/1.2/1.3	1.8/1.8/1.8
OM 112M	8/6/4	710/940/1400	0.85/1/1.5	3.72/3.06/3.53	62/68/75	0.56/0.73/0.86	5.5/6.5/7	1.4/1.2/1.4	1.8/1.8/1.8
OM 132S	8/6/4	710/940/1440	1.1/1.5/1.8	4.10/4.22/4.03	68/74/78	0.60/0.73/0.87	5.5/6.5/7	1.4/1.3/1.3	1.8/1.8/1.8
OM 132MA	8/6/4	710/940/1440	1.5/2/2.2	5.18/5.41/4.87	71/77/79	0.62/0.73/0.87	5.5/6.5/7	1.3/1.5/1.4	1.8/1.8/1.8
OM 132MB	8/6/4	710/940/1440	1.8/2.6/3	6.13/6.84/6.55	72/78/80	0.62/0.74/0.87	5.5/6.5/7	1.5/1.5/1.5	1.8/1.8/1.8
OM 160M	8/6/4	720/970/1460	3.3/4/5.5	10.2/9.87/11.6	79/81/83	0.62/0.76/0.87	5.5/6.5/7	1.7/1.4/1.5	1.8/1.8/1.8
OM 160L	8/6/4	720/970/1460	4.5/6/7.5	13.8/14.5/15.6	80/83/84	0.62/0.76/0.87	5.5/6.5/7	1.6/1.6/1.5	1.8/1.8/1.8



NOTE



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