PERFORMANCE / ELECTRICAL DATA:

3 - Phase TEFC SCR Induction Motor

Range:	0.18 kW to **18.5** kW, (2 pole to 8 pole)
Frame sizes:	63 to **160** for TEFC
Voltage:	415V +/- 10%
Frequency:	50hZ +/- 5%
Type:	Squirrel Cage (SCR)
Rating:	Continuous S1
Insulation:	Class 'F'
Ambient:	40 Deg C
Temp. Rise R :	80 Deg C
Degree of Protection:	IP55 (optional IP56)
Rotation:	Suitable for either direction
Temperature:	-20° C - 45° C below 1000m altitude
Mounting:	B3,B5,B35,B6,B7,B8,B34, V1,V3,V5,V6,V36,V18
Frame Construction:	GD ALUMINIUM ND CAST IRON
Terminal Box:	Rotatable 4x90° increments, IP56 GD series - Multi Mount ND series - Right Hand side from DE, interchangeable to left hand side.
Name plate:	Corrosion free stainless steel
Bearings:	Pre-lubricated bearings to 160 frame Above 160 frame pressure grease relief system
Fans:	Polypropylene to 280 frame
Finish:	Standard surface finish is high quality enamel with final paint colour Green.
Connections:	230 Volt Delta / 415V Star 100 Frame & below 415 Volt Delta / 720 Volt Star 112M & above
Thermistors:	Fitted Standard to frames 160 & above

OPTIONS:

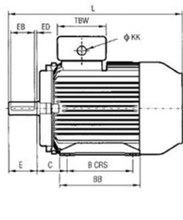
- Standard voltage 415Volts 50hZ 3 Phase, other voltages up to 1100Volt can be supplied on request.
- IP56/IP65 Enclosure
- Metal fan blades
- Class H Insulation
- Anti-condensation heaters and tropic proof motors
- Thermistor protection
- Special paint finishes
- Shaft Extensions
- Stainless hardware
- Brake kits fitted
- Double extensions shafts
- Special shaft extensions
- Stainless Steel shaft

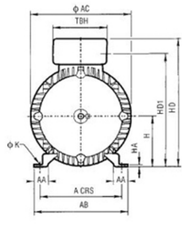
PERFORMANCE DATA

OUTPUT kW	OUTPUT HP	POLE	FRAME SIZE	FL RPM	FLC AMPS. 415 V	EFF (%) FL	DOL STG. STG.T % FLT	DOL STG. STG.C % FLC
0.18	0.25	2	NM 63	1440 RPM	0.53	69	190	350
		4	NM 63		0.56	66	220	310
		6	NM 71		0.65	64	170	300
0.25	0.33	2	NM 63	1440 RPM	0.62	70	230	450
		4	NM 71		0.72	71	180	400
		6	NM 71		0.91	64	170	300
0.37	0.5	2	NM 71	1440 RPM	0.86	70.2	250	500
		4	NM 71		1	73	225	600
		6	NM 80		1.05	69.4	210	400
		8	NM 90S		1.4	66.8	170	400
0.55	0.75	2	NM 71	1440 RPM	1.3	74	250	500
		4	NM 80		1.25	78	200	500
		6	NM 80		1.55	72	200	400
		8	NM 90L		1.8	71.1	150	400
0.75	1	2	NM 80	1440 RPM	1.54	80.5	250	513
		4	NM 80		1.7	82.5	200	500
		6	NM 90S		2	77.7	200	400
		8	NM 100L		2.55	73.8	175	400
1.1	1.5	2	NM 80	1440 RPM	2.35	82.8	200	600
		4	NM 90S		2.4	83.8	200	500
		6	NM 90L		2.8	79.97	200	500
		8	NM 100L		3.35	76.3	160	400
1.5	2	2	NM 90S	1440 RPM	3.1	84.1	225	600
		4	NM 90L		3	85	200	600
		6	NM 100L		3.8	81.5	200	500
		8	NM 112M		3.9	78.4	190	400
2.2	3	2	NM 90L	1440 RPM	4.4	85.6	225	650
		4	NM 100L		4.3	86.4	200	600
		6	NM 112M		5.1	84	200	500
		8	NM 132S		5.4	80.9	180	500
3	4	2	NM 100L	1440 RPM	5.5	86.7	225	700
		4	NM 100L		7.60	87.4	200	700
		6	NM 132S		8.70	84.9	200	700
		8	NM 132M		9.50	82.7	170	700
4	5	2	NM 112M	1440 RPM	7.3	87.6	250	650
		4	NM 112M		8	88.3	200	600
		6	NM 132S		8.6	86.1	200	600
		8	NM 160M		8.9	84.2	150	700
5.5	7.5	2	NM 132S	1440 RPM	9.7	88.6	250	600
		4	NM 132S		10.6	89.2	250	600
		6	NM 132M		11.6	87.4	200	600
		8	NM 160M		12	85.1	150	700
7.5	10	2	NM 132S	1440 RPM	13.3	89.5	200	650
		4	NM 132M		13.8	90.1	250	650
		6	NM 160M		15	88.5	200	700
		8	NM 160L		16	86.4	150	700
11	15	2	NM 160M	1440 RPM	19	90.6	225	700
		4	NM 160M		21	91	200	700
		6	NM 160L		21	89.8	200	700
15	20	2	NM 160M	1440 RPM	26	91.3	225	700
		4	NM 160L		27	91.8	200	700
18.5	25	2	NM 160L	1440 RPM	32	91.8	225	700

Dimensions : Frame Sizes 63 to 132M

Foot Mounting





Type	A	B	C	H	K	L	AA	AB	AC	BB	HA	HD	HD1	TBW	Terminal box TBH	KK
63	100	80	40	63	7	207	19	119	126	100	2	163	138	86	86	20
71	112	90	45	71	7	238	19	131	140	110	2	186	162	86	86	20
80	125	100	50	80	10	278	27	157	160	127	4	212	183	86	86	20
90S	140	100	56	90	10	322	28	164	178	150	4	225	201	86	86	20
90L	140	125	56	90	10	322	28	164	178	150	4	225	201	86	86	20
100L	160	140	63	100	12	368	28	184	199	170	4	254	223	106	106	20
112M	190	140	70	112	12	382	35	218	215	170	4	279	245	127	127	25
132S	216	140	89	132	12	451	38	242	255	208	5	320	287	127	127	25
NM 32M	216	178	89	132	12	451	38	242	255	208	5	320	287	127	127	25

TYPE=NM63

FRAME SIZE	FOOT FIXING A	B	B1	C	H	AA	AB	BA	BB	K	OVERALL(MAX) AD	AD1	AC	L	HD	HD1	HA	KK
NM 160M	254	210	-	108	160.0	73	308	76	254	15.5	275	-	318	605	376	435	22	2Nos-1"
NM 160L		254			159.7				298	15.0				650				

Ac Motor Application & Area :

AC Motor is the most commonly used in industrial applications because of its simplicity, rugged construction, and relatively low manufacturing costs. The reason that the AC induction motor has these characteristics is because the rotor is a self-contained unit, with no external connections. This type of motor derives its name from the fact that AC currents are induced into the rotor by a rotating magnetic field.

Pumps
Hoists
Chemical Plants
Blowers
Cranes
Machine Tools
Compressors
Cold Storage
Plastic Moulding Machines
Lifts
Cement Plants
Food Processing Machines.
Flour Mills
Paper Mills
Refrigeration & Air Conditioning