



Smart solutions.
Strong relationships.



CG entice Motor

A Reliable Motor Where Versatility Meets Durability

IE3 / IE2 Efficiency Class



murugappa

ROTATING MACHINES | DRIVES | PUMPS | FANS

Standard and Optional Features

	STANDARD FEATURES	OPTIONAL FEATURES
Frame size	80-132	-
MOC	Cast Iron	-
Enclosure	IP55	IP56,IP65,IP66
Mounting Option	Foot (B3)	V1, B5, B14, B35 etc
Efficiency	IE3, IE2	-
Terminal box position	RHS	Top, LHS
Voltage	Upto 2.2kW 415V (+/- 10%) Star Above 2.2kW 415 (+/- 10%) Delta	As per customer request
Frequency	50Hz (+/- 5%)	60Hz (+/- 5%)
Cooling	IC411	IC410
Bearing type	Shielded bearing	-
Insulation	Class F	Class H
Temperature rise	Class B	-
Paint colour	IE2 - Yellow grey (RAL7034) IE3 - Water Blue (RAL5021)	As per customer request
Fan cover	Mild steel	-
Thermal Protection PTC(150)	-	80-132
Inverter duty	Variable Torque: 10:1,Constant torque: 2:1	Alternative speed range
Ambient Temperature	-20 to 50 Deg	-40 to 60 Deg
Vibration	A	B

Cutting Edge Manufacturing Facility



Product Portfolio and Performance Data

Voltage	415 V +/- 10%	Type	Squirrel cage (SCR)	Ambient	50 Deg C
Frequency	50 Hz +/- 5%	Duty	S1	Temp rise (R)	70 Deg C
Combined	+/- 10%	Insulation	Class 'F' With Class 'B' temp.rise	Degree of Protection	IP55

Performance data for IE3 SAFE AREA Motors Complying to Efficiency Class of IEC60034-30-1:2014/ IS12615:2018

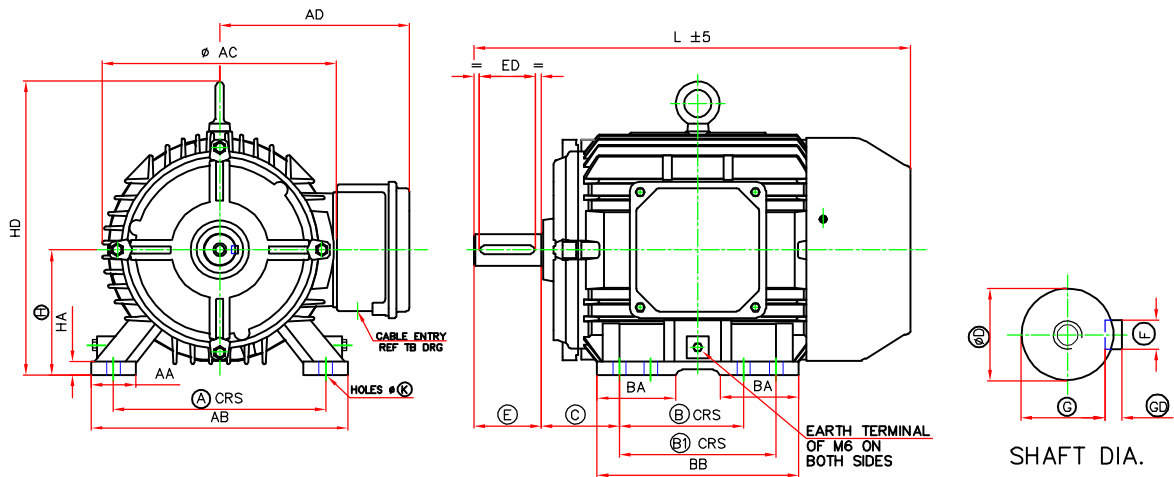
EFFICIENCY CLASS - IE3							
Output		2 - Pole		4 - Pole		6 - Pole	
kW	HP	Frame	Efficiency	Frame	Efficiency	Frame	Efficiency
0.37	0.5	-	-	-	-	80M	73.5
0.55	0.75	-	-	80M	80.8	80M	77.2
0.75	1	80M	80.7	80M	82.5	90S	78.9
1.1	1.5	80M	82.7	90S	84.1	90L	81
1.5	2	90S	84.2	90L	85.3	100L	82.5
2.2	3	90L	85.9	100L	86.7	112M	84.3
3	4	100L	87.1	112M	87.7	132S	85.6
3.7	5	100L	87.8	112M	88.4	132S	86.5
4	5.5	112M	88.1	112M	88.6	132S	86.8
5.5	7.5	132S	89.2	132S	89.6	132M	88
7.5	10	132S	90.1	132M	90.4	-	-
9.3	12.5	132M	90.7	132M	91	-	-

Performance data for IE2 SAFE AREA Motors Complying to Efficiency Class of IEC60034-30-1:2014/ IS12615:2018

EFFICIENCY CLASS - IE2							
Output		2 - Pole		4 - Pole		6 - Pole	
kW	HP	Frame	Efficiency	Frame	Efficiency	Frame	Efficiency
0.37	0.5	-	-	-	-	80M	67.6
0.55	0.75	-	-	80M	77.1	80M	73.1
0.75	1	80M	77.4	80M	79.6	90S	75.9
1.1	1.5	80M	79.6	90S	81.4	90L	78.1
1.5	2	90S	81.3	90L	82.8	100L	79.8
2.2	3	90L	83.2	100L	84.3	112M	81.8
3	4	100L	84.6	112M	85.5	132S	83.3
3.7	5	100L	85.5	112M	86.3	132S	84.3
4	5.5	112M	85.8	112M	86.6	132S	84.6
5.5	7.5	132S	87	132S	87.7	132M	86
7.5	10	132S	88.1	132M	88.7	132M	87.2
9.3	12.5	132M	88.9	132M	89.3	-	-
11	15	132M	88.4	132M	89.8	-	-

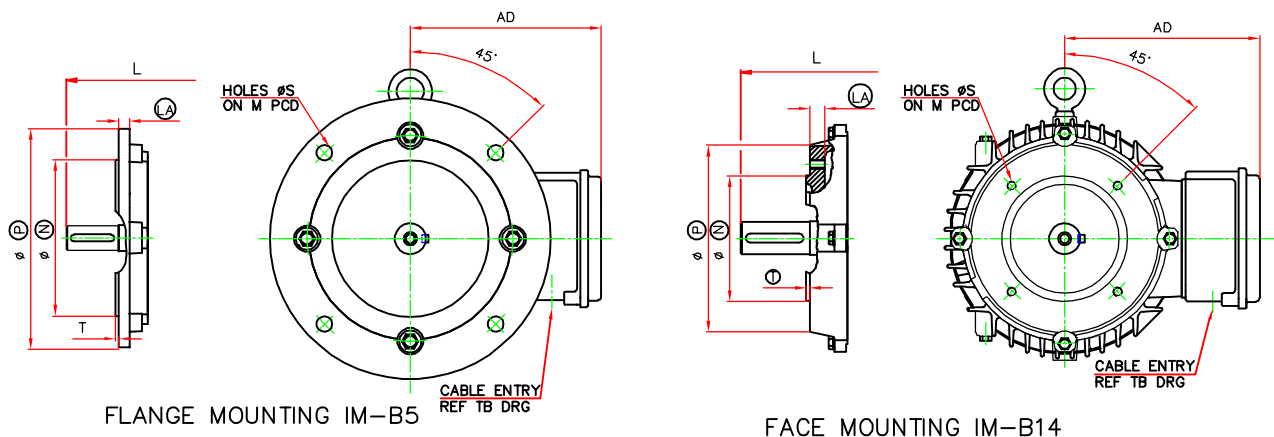
Dimensional Drawing

3 Phase Squirrel Cage TEFC Foot Mounted Cast Iron Induction Motors (NS80-NS132) TB Side



Ringed Dimensions are as per IEC : 60072-1 All Dimensions are in mm

GENERAL															
TYPE	A	B	B1	C	H	K	L	AA	AB	BA	BB	AC	AD	HA	HD
NS80M	125	100	—	50	80	10	276	35	152	37	126	160	125	10	205
NS90S	140	100	125	56	90	10	325	35	175	59	152	175	135	12	225
NS90L	140	125	—	56	90	10	365	35	175	79.5	195	175	135	12	225
NS100L	160	140	—	63	100	12	380	35	195	50	180	210	180	12	275
NS112M	190	140	—	70	112	12	395	40	230	70	180	210	180	12	290
NS132S	216	140	—	89	132	12	435	38	254	73	206	252	200	16	335
NS132M	216	140	178	89	132	12	465	38	254	85	252	252	200	16	335
NS132MX	216	140	178	89	132	12	500	38	254	87	220	252	200	16	335



	IM B5 MOUNTING						IM B14 MOUNTING						SHAFT DIMENSIONS							
TYPE	M	N	P	S	T	LA	M	N	P	S	T	LA	D	E	F	G	GD	ED	Y	
NS80M	165	130	200	12	3.5	10	100	80	120	M6	3	9	19.002/18.996	40	6	15.5	6	32	M6X16	
NS90S/L	165	130	200	12	3.5	10	115	95	140	M8	3	9	24.009/23.996	50	8	20	7	40	M8X19	
NS100L	215	180	250	14.5	4	12	130	110	166	M8	3.5	12	28.009/27.996	60	8	24	7	50	M10X22	
NS112M	215	180	250	14.5	4	12	130	110	166	M8	3.5	13	28.009/27.996	60	8	24	7	50	M10X22	
NS132S/M/MX	265	230	300	14.5	4	14	165	130	200	M10	3.5	13	38.018/38.002	80	10	33	8	70	M12X28	

CG entice Series IE3 / IE2 Motors

Design leadership, manufacturing expertise and application knowledge combine with innovative and elegant new technologies to provide maximum value. The CG entice series motors have been developed to provide the rugged performance. CG entice series motors range is suitable for in a variety of industrial applications around the world. The CG entice Series motors offer the best combination between standard product characteristics, enhanced interchangeability, rapid availability, affordable price.

Salient Features

- Superior Aesthetics.
- Improved Interchangeability.
- Robust Construction.
- Low Vibration & Noise.
- Most Reliable.
- A more Effective Cooling Design.



Superior Aesthetics



Robust Construction



Lower vibration



Most reliable



Better Cooling



Interchangeability

Application





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