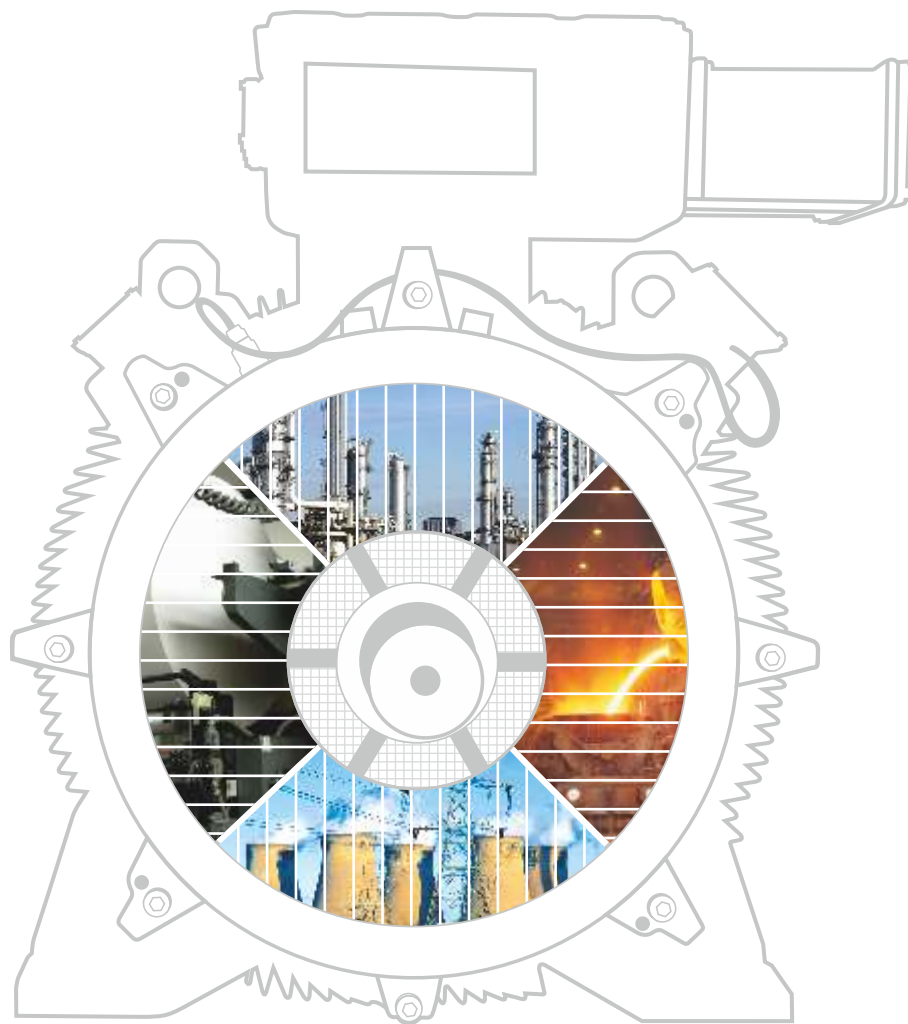
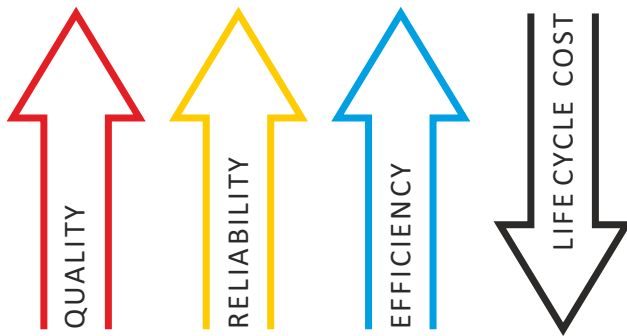


IE3 Premium Efficiency Motors



The Next level of Efficiency
Makes Better Business Sense!





Our core competencies lie in our in house design facility and testing laboratory, confirming to the international quality standards.

Over the last 65 years we have become a reflection of the strength and purpose that today represent Indian industry and its growing power internationally. Bharat Bijlee has evolved from a pioneer of electrical engineering in India to one of the most trusted names in the Industry.

Our motors are the prime movers for various applications across industries. They are designed to operate reliably with low life cycle cost no matter how challenging the application. In-depth industry specific expertise enables motors to be custom engineered for demanding and specialized applications. Bharat Bijlee has always been a front runner in the field of energy efficient products conforming to latest national and international standards. We are represented at BIS (Bureau of Indian Standards), International Electrotechnical Commission (IEC) and research test houses like ERDA.

Need for premium efficiency motors

Ever increasing energy costs and increasing concerns about environment are the main focus areas across the globe.

Electric motors consume about 65-70% of electrical energy used in the industry. Therefore, improvement in motor efficiency will result in significant reduction in energy consumption.

Purchase cost and running cost of motor

Purchase cost of the motor is insignificant when compared to the running cost of the motor over a period of 20 years. This can be seen in the table below:

	IE3	IE1
Power Rating (kW)	37	
Purchase Cost of Motor ()	104200	77260
Motor Efficiency	93.90%	91.20%
Per Hour kW Consumption	39.40	40.57
Annual running Hours (24Hrs X 313 Days)	7500	7500
Power Consumption/Annum (kW)	295527	304276
Average energy cost (/kWh)	7	7
Average energy cost/annum ()	2068690	2129934
Annual Saving ()	61244	
Payback period for added cost	5.3 months	
Total Saving Over Motor's 20 year Life ()	1224882 (Approximately 11.75 times of Motor purchase cost)	

Reducing energy costs is one way organizations can cut their overheads to remain competitive. Significant savings can be made by installing energy efficient motors either new installations or equipment packages, replacing oversized and under-loaded motors, making major modifications to facilities or processes, or instead of repairing or rewinding a failed motor.

IE3 Efficiency class of motors from Bharat Bijlee:

Bharat Bijlee's new IE3 efficiency class of motors, is an improvement over IE2 efficiency class of motors. An energy efficient solution to save energy, these motors are designed for loss reduction of 15-20 % over IE2 efficiency class of motors. Therefore the energy saving by using these motors is much higher when compared to IE1 class of efficiency motors running in the plant.

Upgradation to IE3 motors is smooth and easy since the frame size is same and there is no change in mandatory mounting dimensions, shaft diameter and shaft extension length.

Advantages:

- High Efficiency
- Inverter Grade Winding
- Optimized ventilation system for cooler operation and reduced Noise
- Reduced Vibration Levels
- Highly reliable under most demanding conditions
- Reduced Life Cycle Cost



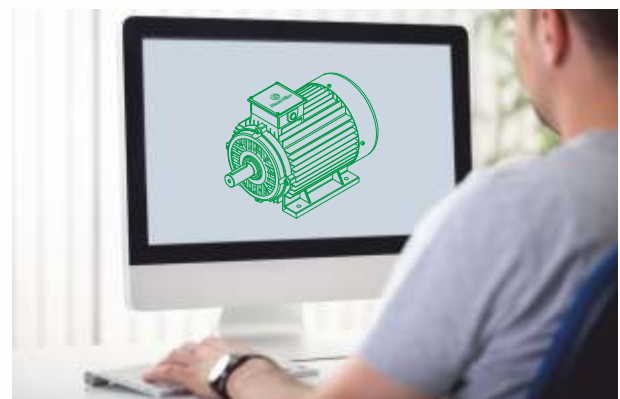
Standards compliance:

These motors comply with the latest efficiency standards and requirements. Bharat Bijlee closely follows the developments in the global regulatory environments and develops the product complying to these requirements. Some of these standards are:

IEC 60034-1:2010	Rotating electrical machines - Rating and performance
IEC 60034-30:2008	Rotating electrical machines Efficiency classes of line operated AC motors (IE code)
IEC 60034-2-1:2014	Rotating electrical machines - Standard methods for determining losses and efficiency from tests (excluding machines for traction vehicles)
IEC 60034-5:2006	Rotating electrical machines - Part 5: Degrees of protection provided by the integral design of rotating electrical machines (IP code) - Classification
IEC 60034-9:2007	Rotating electrical machines - Part 9: Noise limits
IEC 60034-14:2007	Rotating electrical machines - Part 14: Mechanical vibration of certain machines with shaft heights 56 mm and higher - Measurement, evaluation and limits of vibration severity
IEC 60072-1:1991	Dimensions and output series for rotating electrical machines - Part 1: Frame numbers 56 to 400 and flange numbers 55 to 1080
IS 1231:1974	Dimensions of Three-phase Foot - mounted Induction Motors
IS 2223:1983	Dimensions of flange mounted ac induction motors
IS 12615:2011	Energy Efficient Induction Motors - Three Phase Squirrel Cage



		IE3
No. L1502874	3 Ph.Sq.Cage.Ind.Motor	
kW/HP 37/50	3H22S4B3	Fr. 225S
Volts 415 ± 10%	Eff.IE393.9%	Pf 0.84
Hz 50 ± 5%	RPM 1482	Amps 65.3
IP 55	Duty S1	420 Kg
	M/Y03/15	In.Cl.F
6313	C3	6213 C3
		Amb 50°C
Grease: SKF LGMT3/K3K-30		T.Rise Cl. B
Regreasing Hrs 4000, 20g/brg		IEC 60034-1
Works: No.2, MIDC, Airoli, Navi Mumbai 400708		





Efficiency values defined in IEC 60034-30:2008

kW	2P			4P			6P		
	IE1	IE2	IE3	IE1	IE2	IE3	IE1	IE2	IE3
0.75	72.1	77.4	80.7	72.1	79.6	82.5	70.0	75.9	78.9
1.1	75.0	79.6	82.7	75.0	81.4	84.1	72.9	78.1	81.0
1.5	77.2	81.3	84.2	77.2	82.8	85.3	75.2	79.8	82.5
2.2	79.7	83.2	85.9	79.7	84.3	86.7	77.7	81.8	84.3
3.0	81.5	84.6	87.1	81.5	85.5	87.7	79.7	83.3	85.6
4.0	83.1	85.8	88.1	83.1	86.6	88.6	81.4	84.6	86.8
5.5	84.7	87.0	89.2	84.7	87.7	89.6	83.1	86.0	88.0
7.5	86.0	88.1	90.1	86.0	88.7	90.4	84.7	87.2	89.1
11	87.6	89.4	91.2	87.6	89.8	91.4	86.4	88.7	90.3
15	88.7	90.3	91.9	88.7	90.6	92.1	87.7	89.7	91.2
18.5	89.3	90.9	92.4	89.3	91.2	92.6	88.6	90.4	91.7
22	89.9	91.3	92.7	89.9	91.6	93.0	89.2	90.9	92.2
30	90.7	92.0	93.3	90.7	92.3	93.6	90.2	91.7	92.9
37	91.2	92.5	93.7	91.2	92.7	93.9	90.8	92.2	93.3
45	91.7	92.9	94.0	91.7	93.1	94.2	91.4	92.7	93.7
55	92.1	93.2	94.3	92.1	94.0	94.6	91.9	93.7	94.1
75	92.7	93.8	94.7	92.7	94.2	95.0	92.6	93.7	94.6
90	93.0	94.1	95.0	93.0	94.5	95.2	92.9	94.3	94.9
110	93.3	94.3	95.2	93.3	94.5	95.4	93.3	94.3	95.1
132	93.5	94.6	95.4	93.5	94.7	95.6	93.5	94.6	95.4
160	93.8	94.8	95.6	93.8	94.9	95.8	93.8	94.8	95.6
200	94.0	95.0	95.8	94.0	95.1	96.0	94.0	95.0	95.8
250	94.0	95.0	95.8	94.0	95.1	96.0	94.0	95.0	95.8
to									
375									

Note: Tolerance applicable on the efficiency values as per IEC 60034-1

Range and Standard features:

Range in kW	0.75kW to 355kW
Polarity	2P, 4P & 6P
Frame size	80 to 355L
Insulation	Class F, temperature rise limited to class B
Supply condition	415V+/- 10%, 50Hz +/- 5%
Ambient temperature	50 deg C
Protection	IP 55
Mounting	B3 & B5 (Dual mounting hole)
Regreasing facility	From 225 frame and onwards

Optional features available

- Rated frequency 60Hz
- Rated voltages from 220V to 690V
- Class H insulation
- Roller bearings / Insulated Bearing
- Forced cooling arrangement / Encoder Mounting
- RTD in the winding, BTD on the bearings,
- Space Heaters
- Larger Size Terminal Box
- Non Standard Shaft Extension
- Re-greasing facility from 132 to 200 frame



PREMIUM EFFICIENCY IE3 SERIES MOTORS - TYPE 3H

TEFC 3 Phase Squirrel Cage Induction Motors - Frame size 80 to 355L



Applicable standard for testing & efficiency determination: IS 15999

Voltage : 415V+/-10%

Frequency : 50Hz+/-5%

Combined Variation : +/-10%

Ambient: : 50 °C

Duty : S1(Continuous)

3000 rpm (2-Pole)

Ins. Class : F

Temp. Rise : B

Protection : IP55

Rated Output		Frame size	Operating Characteristics at Rated output													
kW	HP	IEC	Rated Speed RPM	Rated Current Amps.	Rated Torque Kg.m	FL	3/4L	1/2L	FL	3/4L	1/2L	% Efficiency	Starting Current to Rated Current Ratio	Starting Torque to Rated Torque Ratio	Pullout Torque to Rated Torque Ratio	Rotor GD ² kgm ²
0.75	1.0	80	2830	1.58	0.26	0.82	0.78	0.68	80.7	80.7	77.4	80.7	6.5	3.3	3.5	0.009
1.1	1.5	80	2830	2.26	0.38	0.82	0.78	0.68	82.7	82.7	79.4	82.7	6.5	3.3	3.5	0.011
1.5	2.0	90S	2885	2.85	0.51	0.87	0.83	0.75	84.2	84.2	82.7	84.2	6.5	3.0	3.3	0.013
2.2	3.0	90L	2885	4.10	0.74	0.87	0.83	0.75	85.9	85.9	84.4	85.9	6.5	3.0	3.3	0.016
3.7	5.0	100L	2885	6.74	1.25	0.87	0.83	0.75	87.8	87.8	86.5	87.8	6.5	3.0	3.3	0.021
5.5	7.5	132S	2935	9.64	1.83	0.89	0.86	0.82	89.2	89.2	86.5	89.2	6.5	2.3	2.5	0.134
7.5	10.0	132S	2935	13.0	2.49	0.89	0.86	0.82	90.1	90.1	87.4	90.1	6.5	2.3	2.5	0.150
9.3	12.5	160M	2935	16.0	3.09	0.89	0.86	0.82	90.7	90.7	88.2	90.7	6.5	2.4	2.7	0.190
11	15.0	160M	2935	18.9	3.65	0.89	0.86	0.82	91.2	91.2	88.7	91.2	6.5	2.4	2.7	0.220
15	20.0	160M	2935	25.5	4.98	0.89	0.87	0.82	91.9	91.9	89.4	91.9	6.5	2.4	2.7	0.300
18.5	25.0	160L	2935	31.3	6.14	0.89	0.87	0.82	92.4	92.4	89.9	92.4	6.5	2.4	2.7	0.374
22	30.0	180M	2955	37.5	7.25	0.88	0.85	0.78	92.7	92.7	91.0	92.7	7.0	2.5	2.7	0.50
30	40.0	200L	2965	50.8	9.85	0.88	0.85	0.78	93.3	93.3	91.5	93.3	7.0	2.5	2.7	0.91
37	50.0	200L	2965	62.4	12.2	0.88	0.85	0.78	93.7	93.7	91.9	93.7	7.0	2.5	2.7	1.13
45	60.0	225M	2965	74.0	14.8	0.90	0.88	0.85	94.0	94.0	92.0	94.0	7.0	2.5	2.7	2.11
55	75.0	250M	2965	89.2	18.1	0.91	0.89	0.86	94.3	94.3	92.3	94.3	7.0	2.5	2.7	2.60
75	100	280S	2970	121	24.6	0.91	0.89	0.86	94.7	94.7	92.7	94.7	7.0	2.0	2.7	3.08
90	120	280M	2970	145	29.5	0.91	0.89	0.86	95.0	95.0	93.0	95.0	7.0	2.0	2.7	3.69
110	150	315S	2985	183	35.9	0.88	0.86	0.80	95.2	95.2	93.2	95.2	7.0	2.4	2.7	5.0
132	180	315M	2985	219	43.1	0.88	0.86	0.80	95.4	95.4	93.4	95.4	7.0	2.4	2.7	6.2
160	215	315L	2985	265	52.2	0.88	0.86	0.80	95.6	95.6	93.6	95.6	7.0	2.4	2.7	7.7
180	240	355L	2985	297	58.7	0.88	0.86	0.80	95.7	95.7	93.7	95.7	7.0	1.6	2.4	12.0

Note : Efficiency class 'IE3' will be punched on the nameplate as per IS:12615-2011
All performance values are subject to tolerance as per IS/IEC 60034-1

PREMIUM EFFICIENCY IE3 SERIES MOTORS - TYPE 3H

TEFC 3 Phase Squirrel Cage Induction Motors - Frame size 80 to 355L



Applicable standard for testing & efficiency determination: IS 15999

Voltage : 415V+/-10%

Frequency : 50Hz+/-5%

Combined Variation : +/-10%

Ins. Class : F

Temp. Rise : B

Protection : IP55

Ambient: : 50 °C

Duty : S1(Continuous)

1500 rpm (4-Pole)

kW	Rated Output HP	Frame size IEC	Rated Speed RPM	Rated Current Amps.	Operating Characteristics at Rated output			% Efficiency			With DOL Starting			Rotor GD ² kgm ²	
					Rated Torque Kg.m	FL	3/4L	1/2L	FL	3/4L	1/2L	Starting Current to Rated Current Ratio	Starting Torque to Rated Torque Ratio		Pullout Torque to Rated Torque Ratio
0.75	1.0	80	1430	1.64	0.51	0.77	0.68	0.53	82.5	82.5	79.5	6.0	2.5	2.8	0.015
1.1	1.5	90S	1435	2.27	0.75	0.80	0.72	0.58	84.1	84.1	82.1	6.0	2.5	2.8	0.017
1.5	2.0	90L	1435	3.06	1.02	0.80	0.72	0.58	85.3	85.3	83.3	6.0	2.5	2.8	0.023
2.2	3.0	100L	1435	4.36	1.49	0.81	0.74	0.60	86.7	86.7	84.7	6.0	2.6	3.0	0.028
3.7	5.0	112M	1455	7.28	2.48	0.80	0.76	0.62	88.4	88.4	86.5	6.5	2.7	3.0	0.066
5.5	7.5	132S	1470	10.4	3.64	0.82	0.78	0.68	89.6	89.6	87.6	6.5	2.6	2.8	0.141
7.5	10.0	132M	1470	13.9	4.97	0.83	0.80	0.70	90.4	90.4	88.5	6.5	2.6	2.8	0.193
9.3	12.5	160M	1470	17.3	6.16	0.82	0.78	0.70	91.0	91.0	89.2	6.5	2.7	3.0	0.340
11	15	160M	1470	19.9	7.29	0.84	0.80	0.72	91.4	91.4	89.7	6.5	2.7	3.0	0.375
15	20	160L	1470	27.0	9.94	0.84	0.80	0.72	92.1	92.1	90.6	6.5	2.7	3.0	0.520
18.5	25	180M	1470	33.1	12.26	0.84	0.78	0.68	92.6	92.6	90.6	7.0	2.6	2.8	0.750
22	30	180L	1470	38.7	14.6	0.85	0.80	0.70	93.0	93.0	91.0	7.0	2.6	2.8	0.86
30	40	200L	1475	51.3	19.8	0.87	0.84	0.77	93.6	93.6	91.6	7.0	2.6	2.6	1.38
37	50	225S	1482	65.3	24.3	0.84	0.80	0.70	93.9	93.9	91.9	7.0	2.6	2.6	2.30
45	60	225M	1482	79.1	29.6	0.84	0.80	0.70	94.2	94.2	92.2	7.0	2.6	2.6	2.83
55	75	250M	1482	96.3	36.1	0.84	0.80	0.70	94.6	94.6	92.6	7.0	2.6	2.6	3.06
75	100	280S	1482	128	49.3	0.86	0.82	0.74	95.0	95.0	93.5	6.5	2.5	2.5	5.53
90	120	280M	1482	153	59.1	0.86	0.82	0.74	95.2	95.2	93.7	6.5	2.5	2.5	6.36
110	150	315S	1488	189	72.0	0.85	0.83	0.74	95.4	95.4	93.9	6.8	2.5	3.0	11.70
132	180	315M	1488	226	86.4	0.85	0.83	0.74	95.6	95.6	94.1	6.8	2.5	3.0	14.0
160	215	315L	1488	273	105	0.85	0.83	0.76	95.8	95.8	94.3	6.5	2.5	3.0	16.9
180	240	315L	1488	307	118	0.85	0.82	0.74	95.9	95.9	94.4	6.5	2.5	3.0	17.8
200	270	355L	1490	329	131	0.88	0.85	0.76	96.0	96.0	95.0	6.5	2.0	2.4	23.3
250	335	355L	1490	412	163	0.88	0.85	0.76	96.0	96.0	95.0	6.5	2.0	2.4	32.7
315	422	355L	1490	519	206	0.88	0.85	0.76	96.0	96.0	95.0	6.5	2.0	2.4	37.9

Note : Efficiency class 'IE3' will be punched on the nameplate as per IS:12615-2011

All performance values are subject to tolerance as per IS/IEC 60034-1

PREMIUM EFFICIENCY IE3 SERIES MOTORS - TYPE 3H

TEFC 3 Phase Squirrel Cage Induction Motors - Frame size 90 to 355L



Applicable standard for testing & efficiency determination: IS 15999

Voltage : 415V+/-10%

Frequency : 50Hz+/-5%

Combined Variation : +/-10%

Ambient: : 50 °C

Duty : S1(Continuous)

1000 rpm (6-Pole)

Ins. Class : F

Temp. Rise : B

Protection : IP55

Rated Output kW	HP	IEC	Frame size	Rated Speed RPM	Rated Current Amps.	Rated Torque Kg.m	Operating Characteristics at Rated output			% Efficiency			With DOL Starting			Rotor GD ² kgm ²
							FL	3/4L	1/2L	FL	3/4L	1/2L	Starting Current to Rated Current Ratio	Starting Torque to Rated Torque Ratio	Pullout Torque to Rated Torque Ratio	
0.75	1.0	90S	945	945	1.84	0.77	0.72	0.61	0.50	78.9	78.9	75.4	4.0	2.2	2.5	0.017
1.1	1.5	90L	945	945	2.62	1.13	0.72	0.61	0.50	81.0	81.0	78.0	4.0	2.2	2.5	0.025
1.5	2.0	100L	945	945	3.51	1.55	0.72	0.61	0.50	82.5	82.5	79.5	4.5	2.0	2.5	0.029
2.2	3.0	112M	960	960	4.72	2.23	0.77	0.70	0.56	84.3	84.3	81.3	5.0	2.0	2.5	0.074
3.7	5.0	132S	960	960	7.63	3.75	0.78	0.76	0.64	86.5	86.5	84.5	5.5	2.0	2.5	0.202
5.5	7.5	132M	960	960	11.1	5.58	0.78	0.76	0.64	88.0	88.0	86.0	5.5	2.0	2.5	0.276
7.5	10.0	160M	965	965	14.6	7.57	0.80	0.77	0.66	89.1	89.1	87.1	5.5	2.5	2.5	0.450
9.3	12.5	160L	965	965	18.0	9.39	0.80	0.77	0.66	89.8	89.8	87.8	5.5	2.5	2.5	0.56
11	15	160L	965	965	21.2	11.1	0.80	0.77	0.66	90.3	90.3	88.3	5.5	2.5	2.5	0.65
15	20	180L	970	970	27.9	15.1	0.82	0.78	0.70	91.2	91.2	89.2	5.5	2.5	2.5	1.20
18.5	25	200L	975	975	32.6	18.5	0.86	0.82	0.74	91.7	91.7	89.7	6.5	2.6	2.3	1.81
22	30	200L	975	975	37.7	22.0	0.88	0.84	0.76	92.2	92.2	90.2	6.5	2.6	2.3	2.10
30	40	225M	978	978	51.1	29.9	0.88	0.86	0.82	92.9	92.9	90.9	6.5	2.5	2.3	3.51
37	50	250M	978	978	62.7	36.8	0.88	0.86	0.82	93.3	93.3	91.3	6.5	2.5	2.3	3.72
45	60	280S	984	984	79.5	44.5	0.84	0.80	0.72	93.7	93.7	92.0	6.5	2.5	2.4	5.11
55	75	280M	984	984	94.6	54.4	0.86	0.83	0.76	94.1	94.1	92.4	6.0	2.4	2.4	6.16
75	100	315S	989	989	131	73.9	0.84	0.80	0.72	94.6	94.6	92.9	6.0	2.3	2.5	12.4
90	120	315M	989	989	157	88.6	0.84	0.80	0.72	94.9	94.9	93.2	6.0	2.3	2.5	15.5
110	150	315M	990	990	192	108	0.84	0.80	0.72	95.1	95.1	93.4	6.0	2.3	2.5	18.0
132	180	315L	990	990	224	130	0.86	0.82	0.75	95.4	95.4	93.7	6.0	2.3	2.5	21.5
160	215	355L	990	990	277	157	0.84	0.81	0.71	95.6	95.6	93.0	6.0	2.0	2.5	28.7
180	240	355L	990	990	319	177	0.82	0.78	0.66	95.7	95.7	94.0	6.0	2.0	2.5	28.7
200	270	355L	991	991	346	197	0.84	0.80	0.7	95.8	95.8	94.1	6.0	2.0	2.5	35.5
250	335	355L	991	991	432	246	0.84	0.80	0.7	95.8	95.8	94.1	6.0	2.0	2.5	43.3

Note : Efficiency class 'IE3' will be punched on the nameplate as per IS:12615-2011

All performance values are subject to tolerance as per IS/IEC 60034-1

General Technical Specifications - Voltage: 415V ± 10%, Frequency: 50 Hz ± 5% , Combined Variation : ± 10%, Cooling - IC

Motor Type	Frame	Power (kW)	Polarity		Specific Technical Specification
Standard Motors	63 to 355	0.18 to 315	2, 4, 6, 8		690V ± 10% from 710kW to 1250kW Non Standard Voltage : 250 - 550V Ambient - 50° C and for DCCA - 40° C Mounting : B3/B5/B35/V1 Mounting (DCCA) : B3/B5/B35 IE2, IE3 and DCCA - Inverter Grade Winding Polarity - up to 24 Duty - S1
IE2 Motors	71 to 355	0.37 to 375	2, 4, 6		
NEW IE3 Motors	80 to 355	0.75 to 315	2, 4, 6		
Large LT Motors (DCCA)	355 to 450	280 to 1250	2, 4, 6, 8		
Standard Flame Proof Motors	80 to 315	0.37 to 200	2, 4, 6, 8		Ambient - 45° C Non Standard Voltage : 250 - 550V Mounting - B3/B5/B35/V1 Polarity - up to 24 IE2 and IE3 - Inverter Grade Winding Duty - S1
IE2 Flame Proof Motors	80 to 315	0.37 to 200	2, 4, 6		
NEW IE3 Flame Proof Motors	80 to 315	0.75 to 180	2, 4, 6		
Non - Sparking Motors	63 to 400	0.12 to 560	2, 4, 6, 8		Ambient - 45° C Non Standard Voltage : 250 - 550V Mounting - B3/B5/B35/V1 (B14 up to 132) Polarity - up to 24 IE2 - Inverter Grade Winding Duty - S1
IE2 Non - Sparking Motors	63 to 400	0.37 to 375	2, 4, 6		
Increased Safety Motors	63 to 355	0.12 to 400	2, 4, 6, 8		
Crane & Hoist Duty Motors	71 to 355	0.37 to 400	4, 6, 8		Ambient - 45° C Non Standard Voltage : 250 - 550V Mounting - B3/B5/B35/V1 (B14 up to 132) Duty - S2/S3/S4/S5 Offered in two Series DOL & Converter Fed
Slip Ring Motors	100 to 160	1.1 to 10	4, 6		Ambient - 45° C Non Standard Voltage : 250 - 550V Mounting - B3/B35 Duty - S2/S3/S4/S5
Textile Motors - Ring Frame	100 to 160	1.1 to 15	4		Ambient - 50° C Non Standard Voltage : 250 - 550V Mounting - B3/B5/B35 Duty - S1
Cane Unloader Motors	160 to 225	11 to 30	6		Ambient - 45° C Start/Stop per Hour - 900 Mounting - B3/B5 Forced Cooling Thermostat Duty - S5, 50% CDF
Brake Motors	71 to 132	0.25 to 9.3	2, 4, 6, 8		Ambient - 50° C Duty - S1,S2/S3/S4/S5 Mounting - B3/B5 (B14 up to 132) Integral DC Brake

ge - Motors

411, Temperature Rise : Limited to Class B, Insulation Class F, Altitude : up to 1000 m above MSL, Rotation - Bi-directional

Optional Features		Applications
Double Shaft Extension Shaft Material EN19/EN24/EN57/SS316 Enclosure - IP56/ 65/66 Forced Cooling - 132 to 450 Frame Space Heater - Frame 90 onwards Roller Bearing - 160 Frame onwards High Temperature Grease - Molykote HP 300 (Suitable up to 250° C) RTD (Standard for DCCA)	Motors for Inverter Duty Non Std Single Shaft Extension Non Standard Painting Provision for Encoder Mounting Insulation - Class H Low Vibration Insulated Bearing - 160 Frame onwards BTD - 250 Frame & above	Pump, Fan, Compressor, Packaging Machinery, Coiler/De-coiler, Agro Equipment, Food Processing Equipment, Paper Machinery, Agitator, Dairy Equipment, Machine Tool, Air Conditioning, Material Handling, Plastic Machinery, Textile Machinery, Cooling Tower, Crusher, Material Handling
Double Shaft Extension Shaft Material EN19/EN24/EN57/SS 316 Enclosure - IP56/ 65 Space Heater - Frame 90 onwards Roller Bearing - 160 Frame onwards Intermittent Duty (S3, S4) - 80 to 132 Fr Combined Testing with VFD Thermistor	Motors for Inverter Duty Non Std Single Shaft Extension Non Standard Painting Insulation - Class H Low Vibration Insulated Bearing - 160 Frame onwards	Pump, Fan, Compressor, Material Handling, Agitator, LPG Bottling Plant, Pharma Machinery, Chemical Plant Machinery
Double Shaft Extension Shaft Material EN19/EN24/EN57/SS316 Enclosure - IP56/ 65 Space Heater - Frame 90 onwards Roller Bearing - 160 Frame onwards Intermittent Duty (S3, S4) - 80 to 132 Fr Combined Testing with VFD	Motors for Inverter Duty Non Std Single Shaft Extension Non Standard Painting Insulation - Class H LowVibration InsulatedBearing - 160 Frame onwards Thermistor	Pump, Fan, Compressor, Material Handling, Agitator, Pharma Machinery
Double Shaft Extension Shaft Material EN19/EN24/EN57/SS316 Enclosure - IP56/ 65 Space Heater - Frame 90 onwards Roller Bearing - 160 Frame onwards BTD - 250 Frame & above Combined Testing with VFD	Motors for Inverter Duty Non Std Single Shaft Extension Non Standard Painting Insulation - Class H Low Vibration Insulated Bearing - 160 Frame onwards	Crane, Hoist, Lift, Material Handling, Car Stacker, Door Opening
Non Standard Paint Enclosure - IP56/65	Low Vibration	Crane, Hoist, Lift, Material Handling
Non Standard Paint Motors for Inverter Duty	Insulation Class - H Low Vibration	Ginning, Textile Machinery
Non Standard Paint	Insulation Class - H	Cane Loading-Unloading Machine
Non Standard Paint Motors for Inverter Duty	Higher Braking Torque	Crane, Textile, Pharma Machinery

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