

MOTORS PRICE LIST

LOW VOLTAGE MOTORS
0.12kW to 1250kW



LP36 w.e.f. 6th July 2015

Testing Facility To Meet Global Standards

Bharat Bijlee has proactively produced energy efficient motors for the complete range of IE motors, using our state-of-the-art in-house test facility. Our in-house test facility meets the latest International Standards and is in line with future revision.

Salient Features

- Direct Load Test up to 560 kW (380V to 6600V, 50/60 Hz)
- Mixed Frequency Testing Facility up to 1250 kW
- Test set up for efficiency determination as per IEC: 60034-2-1:2007 and IS:15999 (part 2/sec 1):2011
- Loading as per full load torque and stray load loss determination from residual loss method 2-1-1B (in line with future revision of IEC: 60034-2-1:201X)
- Five test stations for IE2/IE3 efficiency determination
- Efficiency calculation through special software in line with future revision of IEC: 60034-2-1:201X
- Combined testing of Motor + Drive for Safe and Hazardous Area Motors
- Data measurement up to 22kW through SCADA is established and higher ratings under upgradation



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STANDARD TEFC SCR MOTORS

Foot mounted (B3 construction) 3 Phase Squirrel Cage Induction Motors suitable for 415V $\pm 10\%$, 50Hz $\pm 5\%$, Combined Variation $\pm 10\%$, Insulation Class F with temperature rise limited to Class B, Degree of Protection IP55, Ambient Temperature 50° C, Duty S1, Conforms to IS/IEC 60034-1.

3000 RPM 2 Pole					
kW	HP	Frame	Type	Price	Excise
0.18	0.25	63	MA063213	9090	426
0.25	0.35	63	MA063233	9360	439
0.37	0.50	71	MA071213	9950	466
0.55	0.75	71	MA071233	10990	515
0.75	1.00	80	MA080213	11380	533
1.10	1.50	80	MA080233	12460	584
1.50	2.00	90S	MA09S233	14420	676
2.20	3.00	90L	MA09L253	18450	865
3.70	5.00	100L	MA10L213	22670	1063
5.50	7.50	132S	MA13S2B3	37280	1748
7.50	10.00	132S	MA13S2E3	38590	1809
9.30	12.50	132M	MA13M2N3	59720	2799
11.00	15.00	160M	MA16M213	67000	3141
15.00	20.00	160M	MA16M253	78510	3680
18.50	25.00	160L	MA16L273	101800	4772
22.00	30.00	180M	MA18M213	113470	5319
30.00	40.00	200L	MA20L233	168590	7903
37.00	50.00	200L	MA20L253	205730	9644
45.00	60.00	225M	MA22M233	264740	12410
55.00	75.00	250M	MA25M213	356370	16705
75.00	100.00	280S	MA28S213	463900	21745
90.00	120.00	280M	MA28M233	537780	25208
110.0	150.0	315S	MA31S233	711690	33360
125.0	170.0	315M	MA31M2A3	835380	39158
132.0	180.0	315M	MA31M233	875410	41035
150.0	200.0	315L	MA31L2A3	925490	43382
160.0	215.0	315L	MA31L253	958970	44952
180.0	240.0	315L	MA31L2B3	1009090	47301
200.0	270.0	355L	MA35L2A3	1156000	54188
*250	335.0	355L	MA35L213	1253490	58757
*315	425.0	355L	MA35L233	1365600	64013

1500 RPM 4 Pole					
kW	HP	Frame	Type	Price	Excise
0.12	0.16	63	MA063413	9390	440
0.18	0.25	63	MA063433	9980	468
0.25	0.35	71	MA071413	10160	476
0.37	0.50	71	MA071433	10520	493
0.55	0.75	80	MA080413	11710	549
0.75	1.00	80	MA080433	11810	554
1.10	1.50	90S	MA09S433	13470	631
1.50	2.00	90L	MA09L453	14730	690
2.20	3.00	100L	MA10L433	19460	912
3.70	5.00	112M	MA11M433	24920	1168
5.50	7.50	132S	MA13S4B3	34340	1610
7.50	10.00	132M	MA13M4K3	40090	1879
9.30	12.50	160M	MA16M4A3	63490	2976
11.00	15.00	160M	MA16M4C3	64190	3009
15.00	20.00	160L	MA16L4K3	79770	3739
18.50	25.00	180M	MA18M433	107520	5040
22.00	30.00	180L	MA18L473	119880	5619
30.00	40.00	200L	MA20L433	161720	7581
37.00	50.00	225S	MA22S413	202810	9507
45.00	60.00	225M	MA22M433	240740	11285
55.00	75.00	250M	MA25M413	330590	15496
75.00	100.00	280S	MA28S413	423180	19837
90.00	120.00	280M	MA28M433	491000	23016
110.0	150.0	315S	MA31S413	624120	29256
125.0	170.0	315M	MA31M4A3	713990	33468
132.0	180.0	315M	MA31M433	732150	34320
150.0	200.0	315L	MA31L4A3	791310	37093
160.0	215.0	315L	MA31L453	859680	40298
180.0	240.0	315L	MA31L463	916370	42955
200.0	270.0	315L	MA31L473	1045980	49030
250.0	335.0	355L	MA35L413	1158410	54300
315.0	425.0	355L	MA35L433	1325950	62154

Frames 63-132 are with Aluminium body with T Box on top with type "MA".

Frames 160-225 are with Cast Iron body with T Box on RHS, with type "MA" (LHS T Box on request).

Frames 250 & above are with Cast Iron body with T Box on top with type "MA".

Frames 90-225 are also available with Cast Iron body with T Box on top with type "MX".

Frames 90 to 132 & 250 to 355 can also be offered with Cast Iron body with T Box RHS/LHS on request.

For higher ratings refer to High Efficiency Large Motors with DCCA.

* These ratings are suitable for ambient 45° C.



STANDARD TEFC SCR MOTORS

Foot mounted (B3 construction) 3 Phase Squirrel Cage Induction Motors suitable for 415V $\pm 10\%$, 50Hz $\pm 5\%$, Combined Variation $\pm 10\%$, Insulation Class F with temperature rise limited to Class B, Degree of Protection IP55, Ambient Temperature 50° C, Duty S1, Conforms to IS/IEC 60034-1.

1000 RPM 6 Pole					
kW	HP	Frame	Type	Price	Excise
0.25	0.35	71	MA071633	11530	540
0.37	0.50	80	MA080613	12410	582
0.55	0.75	80	MA080633	12710	596
0.75	1.00	90S	MA09S633	14300	670
1.10	1.50	90L	MA09L653	15780	740
1.50	2.00	100L	MA10L633	20110	943
2.20	3.00	112M	MA11M633	24060	1128
3.70	5.00	132S	MA13S6B3	36770	1724
5.50	7.50	132M	MA13M6N3	40960	1920
7.50	10.00	160M	MA16M633	66140	3100
9.30	12.50	160L	MA16L663	78150	3663
11.00	15.00	160L	MA16L673	82290	3857
15.00	20.00	180L	MA18L613	112360	5267
18.50	25.00	200L	MA20L613	146310	6858
22.00	30.00	200L	MA20L633	158970	7452
30.00	40.00	225M	MA22M623	247810	11616
37.00	50.00	250M	MA25M603	333850	15649
45.00	60.00	280S	MA28S613	425380	19940
55.00	75.00	280M	MA28M633	482570	22620
75.0	100.0	315S	MA31S613	598400	28050
90.0	120.0	315M	MA31M633	752780	35287
110.0	150.0	315M	MA31M653	838580	39308
125.0	170.0	315L	MA31L6A3	913880	42838
132.0	180.0	315L	MA31L673	974250	45668
150.0	200.0	315L	MA31L6B3	1006090	47160
160.0	215.0	315L	MA31L693	1014140	47538
180.0	240.0	355L	MA35L6A3	1123950	52685
200.0	270.0	355L	MA35L613	1167170	54711
250.0	335.0	355L	MA35L633	1257940	58966

750 RPM 8 Pole					
kW	HP	Frame	Type	Price	Excise
0.37	0.50	90S	MA09S813	13720	643
0.55	0.75	90L	MA09L853	15030	705
0.75	1.00	100L	MA10L813	18480	866
1.10	1.50	100L	MA10L833	22610	1060
1.50	2.00	112M	MA11M813	26080	1223
2.20	3.00	132S	MA13S8B3	34570	1620
3.70	5.00	160M	MA16M813	54370	2549
5.50	7.50	160M	MA16M833	66020	3095
7.50	10.00	160L	MA16L873	83840	3930
9.30	12.50	180M	MA18M813	109010	5110
11.00	15.00	180L	MA18L833	114830	5383
15.00	20.00	200L	MA20L833	162230	7605
18.50	25.00	225S	MA22S813	209300	9811
22.00	30.00	225M	MA22M833	252620	11842
30.00	40.00	250M	MA25M813	339730	15925
37.00	50.00	280S	MA28S823	434180	20352
45.00	60.00	280M	MA28M853	503740	23613
55.00	75.00	315S	MA31S813	614890	28823
75.00	100.00	315M	MA31M833	769480	36069
90.00	120.00	315M	MA31M853	864540	40525
110.00	150.00	315L	MA31L873	912880	42791
125.00	170.00	315L	MA31L8A3	1013970	47530
132.00	180.00	315L	MA31L893	1074270	50356
150.00	200.00	355L	MA35L8A3	1122670	52625
160.00	215.00	355L	MA35L813	1234680	57876
180.00	240.00	355L	MA35L8B3	1263810	59241
200.00	270.00	355L	MA35L833	1352560	63401

Frames 63-132 are with Aluminium body with T Box on top with type "MA".

Frames 160 -225 are with Cast Iron body with T Box on RHS, with type "MA" (LHS T Box on request).

Frames 250 & above are with Cast Iron body with T Box on top with type "MA".

Frames 90-225 are also available with Cast Iron body with T Box on top with type "MX".

Frames 90 to 132 & 250 to 355 can also be offered with Cast Iron body with T Box RHS/LHS on request.

For higher ratings refer to High Efficiency Large Motors with DCCA.



IE2 SERIES TEFC SCR MOTORS

Foot mounted (B3 construction) 3 Phase Squirrel Cage Induction Motors suitable for 415V $\pm 10\%$, 50Hz $\pm 5\%$, Combined Variation $\pm 10\%$, Insulation Class F, with temperature rise limited to Class B, Degree of Protection IP55, Duty S1, Ambient Temperature 50° C, IE2 Efficiency class conforms to IS: 12615 : 2011.

3000 RPM 2 Pole					
kW	HP	Frame	Type	Price	Excise
0.37	0.50	71	2H0712A3	11380	533
0.55	0.75	71	2H071233	12620	592
0.75	1.0	80	2H080213	13040	611
1.1	1.5	80	2H080233	14290	670
1.5	2.0	90S	2H09S243	16500	773
2.2	3.0	90L	2H09L273	21130	990
3.7	5.0	100L	2H10L233	26150	1226
5.5	7.5	132S	2H13S2G3	42590	1996
7.5	10.0	132S	2H13S2N3	44470	2085
9.3	12.5	160M	2H16M233	75800	3553
11.0	15.0	160M	2H16M253	79790	3740
15.0	20.0	160M	2H16M263	93420	4379
18.5	25.0	160L	2H16L293	120740	5660
22.0	30.0	180M	2H18M233	128450	6021
30.0	40.0	200L	2H20L2A3	191290	8967
37.0	50.0	200L	2H20L273	232190	10884
45.0	60.0	225M	2H22M253	298780	14005
55.0	75.0	250M	2H25M233	401890	18839
75.0	100.0	280S	2H28S233	501640	23514
90.0	120.0	280M	2H28M253	578370	27111
110.0	150.0	315S	2H31S233	737930	34590
125.0	170.0	315M	2H31M2A3	865500	40570
132.0	180.0	315M	2H31M233	906640	42499
150.0	200.0	315L	2H31L2A3	958860	44947
160.0	215.0	315L	2H31L253	994960	46639
180.0	240.0	315L	2H31L2B3	1046450	49052
200.0	270.0	355L	2H35L2A3	1165000	54609
*250	335.0	355L	2H35L213	1295530	60728
*315	425.0	355L	2H35L233	1411280	66154

1500 RPM 4 Pole					
kW	HP	Frame	Type	Price	Excise
0.37	0.50	71	2H071433	11800	553
0.55	0.75	80	2H080433	13400	628
0.75	1.0	80	2H080453	13590	637
1.1	1.5	90S	2H09S423	15550	729
1.5	2.0	90L	2H09L473	16870	791
2.2	3.0	100L	2H10L473	22490	1054
3.7	5.0	112M	2H11M473	28780	1349
5.5	7.5	132S	2H13S4K3	39810	1866
7.5	10.0	132M	2H13M4T3	46530	2181
9.3	12.5	160M	2H16M4C3	72450	3396
11.0	15.0	160M	2H16M4K3	75850	3555
15.0	20.0	160L	2H16L4T3	94270	4419
18.5	25.0	180M	2H18M473	122820	5757
22.0	30.0	180L	2H18L483	135610	6357
30.0	40.0	200L	2H20L453	182470	8553
37.0	50.0	225S	2H22S433	226020	10595
45.0	60.0	225M	2H22M453	272870	12791
55.0	75.0	250M	2H25M433	374860	17572
75.0	100.0	280S	2H28S423	458090	21473
90.0	120.0	280M	2H28M453	531420	24910
110.0	150.0	315S	2H31S413	648930	30419
125.0	170.0	315M	2H31M4A3	743480	34851
132.0	180.0	315M	2H31M433	764640	35843
150.0	200.0	315L	2H31L4A3	821740	38519
160.0	215.0	315L	2H31L453	892640	41843
180.0	240.0	315L	2H31L463	953850	44712
200.0	270.0	315L	2H31L473	1088520	51024
250.0	335.0	355L	2H35L413	1197200	56119
315.0	425.0	355L	2H35L433	1374560	64433

Frames 63-132 are with Aluminium body with T Box on top.

Frames 160 -225 are with Cast Iron body with T Box on RHS (LHS T Box on request).

Frames 250 & above are with Cast Iron body with T Box on top.

Frames 90-225 can also be offered with Cast Iron body with T Box on top on request.

Frames 90 to 132 & 250 to 355 can also be offered with Cast Iron body with T Box RHS/LHS on request.

BBL IE2 motors are with inverter grade winding with 6 leads.

For higher ratings refer to High Efficiency Large Motors with DCCA.

*These ratings are suitable for ambient 45° C.



IE2 SERIES TEFC SCR MOTORS

Foot mounted (B3 construction) 3 Phase Squirrel Cage Induction Motors suitable for 415V $\pm 10\%$, 50Hz $\pm 5\%$, Combined Variation $\pm 10\%$, Insulation Class F, with temperature rise limited to Class B, Degree of Protection IP55, Duty S1, Ambient Temperature 50° C, IE2 Efficiency class conforms to IS: 12615 : 2011.

1000 RPM 6 Pole					
kW	HP	Frame	Type	Price	Excise
0.37	0.50	80	2H080613	14200	666
0.55	0.75	80	2H080633	14610	685
0.75	1.0	90S	2H09S633	16430	770
1.1	1.5	90L	2H09L653	18040	846
1.5	2.0	100L	2H10L633	23140	1085
2.2	3.0	112M	2H11M653	27750	1301
3.7	5.0	132S	2H13S6G3	42450	1990
5.5	7.5	132M	2H13M6T3	47040	2205
7.5	10.0	160M	2H16M633	78050	3659
9.3	12.5	160L	2H16L663	89870	4213
11.0	15.0	160L	2H16L673	97220	4557
15.0	20.0	180L	2H18L633	127120	5959
18.5	25.0	200L	2H20L633	165360	7751
22.0	30.0	200L	2H20L653	179460	8412
30.0	40.0	225M	2H22M643	279250	13090
37.0	50.0	250M	2H25M633	375490	17601
45.0	60.0	280S	2H28S613	449810	21085
55.0	75.0	280M	2H28M633	512560	24026
75.0	100.0	315S	2H31S613	622610	29185
90.0	120.0	315M	2H31M633	783000	36703
110.0	150.0	315M	2H31M653	869250	40746
125.0	170.0	315L	2H31L6A3	960520	45024
132.0	180.0	315L	2H31L673	1023510	47977
150.0	200.0	315L	2H31L6B3	1044780	48974
160.0	215.0	315L	2H31L693	1050570	49245
180.0	240.0	355L	2H35L6A3	1164190	54571
200.0	270.0	355L	2H35L613	1207610	56607
250.0	335.0	355L	2H35L633	1301100	60989

Frames 63-132 are with Aluminium body with T Box on top.

Frames 160-225 are with Cast Iron body with T Box on RHS (LHS T Box on request).

Frames 250 & above are with Cast Iron body with T Box on top.

Frames 90-225 can also be offered with Cast Iron body with T Box on top on request.

Frames 90 to 132 & 250 to 355 can also be offered with Cast Iron body with T Box RHS/LHS on request.

BBL IE2 motors are with inverter grade winding with 6 leads.

For higher ratings refer to High Efficiency Large Motors with DCCA.



HIGH EFFICIENCY TEFC SCR 8 POLE MOTORS

Foot mounted (B3 construction) 3 Phase Squirrel Cage Induction Motors suitable for 415V $\pm 10\%$, 50Hz $\pm 5\%$, Combined Variation $\pm 10\%$, Insulation Class F, Degree of Protection IP55, Duty S1, Ambient Temperature 50° C with temperature rise limited to Class B, Conforms to IS/IEC 60034-1.

750 RPM 8 Pole					
kW	HP	Frame	Type	Price	Excise
0.37	0.50	90S	MH09S813	15690	735
0.55	0.75	90L	MH09L853	17220	807
0.75	1.00	100L	MH10L813	21120	990
1.10	1.50	100L	MH10L833	25730	1206
1.50	2.00	112M	MH11M813	29830	1398
2.20	3.00	132S	MH13S8B3	39450	1849
3.70	5.00	160M	MH16M813	71610	3357
5.50	7.50	160M	MH16M833	75580	3543
7.50	10.00	160L	MH16L873	95950	4498
9.30	12.50	180M	MH18M813	119330	5594
11.00	15.00	180L	MH18L833	125700	5892
15.00	20.00	200L	MH20L833	177600	8325
18.50	25.00	225S	MH22S823	229130	10740
22.00	30.00	225M	MH22M833	276560	12964
30.00	40.00	250M	MH25M813	372710	17471
37.00	50.00	280S	MH28S823	453740	21269
45.00	60.00	280M	MH28M853	526400	24675
55.00	75.00	315S	MH31S813	621040	29111
75.00	100.00	315M	MH31M833	777180	36430
90.00	120.00	315M	MH31M853	873180	40930
110.00	150.00	315L	MH31L873	922010	43219
125.00	170.00	315L	MH31L8A3	1024120	48006
132.00	180.00	315L	MH31L893	1127910	52871
150.00	200.00	355L	MH35L8A3	1133930	53153
160.00	215.00	355L	MH35L813	1247040	58455
180.00	240.00	355L	MH35L8B3	1338390	62737
200.00	270.00	355L	MH35L833	1366080	64035

For higher ratings refer to High Efficiency Large Motors with DCCA.





HIGH EFFICIENCY TEFC SCR LARGE MOTORS WITH DUAL CIRCUIT COOLING ARRANGEMENT (DCCA)

Foot mounted (B3 construction) 3 Phase Squirrel Cage Induction Motors suitable for 415V $\pm 10\%$, 50Hz $\pm 5\%$, Combined Variation $\pm 10\%$, Insulation Class F with temperature rise limited to Class B, Degree of Protection IP55, Ambient Temperature 40° C, Conforms to IS/IEC 60034-1.

3000 RPM 2 Pole				
kW	HP	Frame	Type	Price
355.0	475.0	355L/K	2H35K2M3	1875570
400.0	536.0	355L/K	MH35K2P3	1970900
450.0	603.0	355L/K	MH35K2T3	2049670
475.0	636.0	355L/K	MH35K2A3	2136040
500.0	670.0	355L	MH35K2W3	2162530
560.0	750.0	400L	MH40L293	On Enquiry
* 630.0	845.0	400L	MH40L2A3	On Enquiry

1500 RPM 4 Pole				
kW	HP	Frame	Type	Price
400.0	536.0	355L/K	MH35K4P3	1810070
450.0	603.0	355L/K	MH35K4T3	1876280
500.0	670.0	355L/K	MH35K4W3	2085410
560.0	750.0	400L	MH40L493	2392950
630.0	845.0	400L	MH40L4A3	2591060
* 710.0	952.0	400L	MH40L4B3	On Enquiry
800.0	1072.0	450M	MH45M433	On Enquiry
900.0	1206.0	450M	MH45M453	On Enquiry
1000.0	1340.0	450L	MH45L473	On Enquiry
upto 1250 kW			450L	On Enquiry

1000 RPM 6 Pole				
kW	HP	Frame	Type	Price
315.0	422.0	355L	2H35K6M3	1757310
355.0	475.0	355L	2H35K6P3	1808630
400.0	536.0	355L	MH35K6T3	2037900
450.0	603.0	400L	MH40L693	On Enquiry
500.0	670.0	400L	MH40L6A3	On Enquiry
* 560.0	750.0	400L	MH40L6B3	On Enquiry
630.0	845.0	450M	MH45M633	On Enquiry
710.0	952.0	450M	MH45M653	On Enquiry
800.0	1072.0	450L	MH45L673	On Enquiry

750 RPM 8 Pole				
kW	HP	Frame	Type	Price
** 250.0	335.0	355L/K	MH35K8P3	1790930
** 315.0	422.0	355L/K	MH35K8T3	2031670
355.0	475.0	400L	MH40L893	On Enquiry
400.0	536.0	400L	MH40L8A3	On Enquiry
* 450.0	603.0	400L	MH40L8B3	On Enquiry
500.0	670.0	450M	MH45M833	On Enquiry
560.0	750.0	450M	MH45M853	On Enquiry
630.0	845.0	450L	MH45L873	On Enquiry

Efficiency class 'IE2' will be punched on the nameplate as per IS : 12615-2011 for ratings up to 375 kW for 2,4 & 6 Pole.

* Temperature rise limited to class "F".

** Temperature rise 90° C.

The List price is inclusive of Space Heater, 3 nos winding RTDs (Simplex), 2 nos BTDs (Simplex) and inverter grade winding.

Insulated bearings at NDE is recommended for motors to be operated with VFD (For charges refer to cash extras).

Motors with ratings 710 kW and above are offered with supply voltage as 690 V only.



STANDARD TEFC SCR FLAME PROOF MOTORS

Foot mounted (B3 construction) 3 Phase Squirrel Cage Induction Motor, 415V $\pm 10\%$, 50Hz $\pm 5\%$, Combined Variation $\pm 10\%$, Insulation Class F, with temperature rise limited to Class B, Degree of Protection IP55, Duty S1, Ambient Temperature 45° C, IS/IEC 60079-1:2007, Gas Group IIA, IIB.

3000 RPM 2 Pole					
kW	HP	Frame	Type	Price	Excise
0.37	0.50	80	MD0802A3	21820	1023
0.55	0.75	80	MD0802B3	24410	1144
0.75	1.00	80	MD080213	25160	1179
1.10	1.50	80	MD080233	27740	1300
1.50	2.00	90 L	MD09L233	31480	1476
2.20	3.00	90 L	MD09L253	39280	1841
3.70	5.00	100 L	MD10L213	49860	2337
5.50	7.50	132 S	MD13S2B3	70430	3301
7.50	10.00	132 S	MD13S2E3	77890	3651
9.30	12.50	132 M	MD13M2N3	110690	5189
11.00	15.00	160 M	MD16M213	136460	6397
15.00	20.00	160 M	MD16M253	165350	7751
18.50	25.00	160 L	MD16L273	187680	8798
22.00	30.00	180 L	MD18L213	222080	10410
30.00	40.00	200 L	MD20L233	299290	14029
37.00	50.00	200 L	MD20L253	387700	18173
45.00	60.00	225 M	MD22M233	489740	22957
55.00	75.00	250 M	MD25M213	600620	28154
75.00	100.00	280 S	MD28S213	803940	37685
90.00	120.00	280 M	MD28M233	832830	39039

1500 RPM 4 Pole					
kW	HP	Frame	Type	Price	Excise
0.37	0.50	80	MD0804A3	21420	1004
0.55	0.75	80	MD080413	23650	1109
0.75	1.00	80	MD080433	24620	1154
1.10	1.50	90 L	MD09L433	28080	1316
1.50	2.00	90 L	MD09L453	30560	1433
2.20	3.00	100 L	MD10L433	38810	1819
3.70	5.00	112 M	MD11M433	48690	2282
5.50	7.50	132 S	MD13S4B3	67170	3149
7.50	10.00	132 M	MD13M4K3	76410	3582
9.30	12.50	160 M	MD16M4A3	116990	5484
11.00	15.00	160 M	MD16M4C3	123870	5806
15.00	20.00	160 L	MD16L4K3	150580	7058
18.50	25.00	180 L	MD18L433	170170	7977
22.00	30.00	180 L	MD18L473	202150	9476
30.00	40.00	200 L	MD20L433	272370	12767
37.00	50.00	225 S	MD22S413	353890	16589
45.00	60.00	225 M	MD22M433	445230	20870
55.00	75.00	250 M	MD25M413	546270	25606
75.00	100.00	280 S	MD28S413	702190	32915
90.00	120.00	280 M	MD28M433	715700	33548

1000 RPM 6 Pole					
kW	HP	Frame	Type	Price	Excise
0.37	0.50	80	MD080613	25220	1182
0.55	0.75	80	MD080633	25640	1202
0.75	1.00	90 L	MD09L633	29820	1398
1.10	1.50	90 L	MD09L653	30660	1437
1.50	2.00	100 L	MD10L633	43920	2059
2.20	3.00	112 M	MD11M633	51170	2399
3.70	5.00	132 S	MD13S6B3	67760	3176
5.50	7.50	132 M	MD13M6N3	83770	3927
7.50	10.00	160 M	MD16M633	127320	5968
9.30	12.50	160 L	MD16L663	146870	6885
11.00	15.00	160 L	MD16L673	155420	7285
15.00	20.00	180 L	MD18L613	208160	9758
18.50	25.00	200 L	MD20L613	257880	12088
22.00	30.00	200 L	MD20L633	279620	13107
30.00	40.00	225 M	MD22M623	458240	21480
37.00	50.00	250 M	MD25M603	564030	26439
45.00	60.00	280 S	MD28S613	683820	32054
55.00	75.00	280 M	MD28M633	737090	34551

750 RPM 8 Pole					
kW	HP	Frame	Type	Price	Excise
0.37	0.50	90 L	MD09L833	29350	1376
0.55	0.75	90 L	MD09L853	31730	1487
0.75	1.00	100 L	MD10L813	38290	1795
1.10	1.50	100 L	MD10L833	44550	2088
1.50	2.00	112 M	MD11M813	53260	2497
2.20	3.00	132 S	MD13S8B3	70170	3289
3.70	5.00	160 M	MD16M813	113310	5311
5.50	7.50	160 M	MD16M833	130270	6106
7.50	10.00	160 L	MD16L873	158660	7437
9.30	12.50	180 L	MD18L813	201300	9436
11.00	15.00	180 L	MD18L833	212150	9945
15.00	20.00	200 L	MD20L833	286360	13423
18.50	25.00	225 S	MD22S813	355450	16662
22.00	30.00	225 M	MD22M833	467230	21901
30.00	40.00	250 M	MD25M813	573830	26898
37.00	50.00	280 S	MD28S823	736310	34515
45.00	60.00	280 M	MD28M853	751920	35246

All motors are with T Box on top.

Frames 112 & 132 can be offered with T Box on RHS on request.

Frames 160 to 280 can be offered with T Box on RHS/LHS on request.

For higher ratings refer to IE2 Series & High Efficiency 8 Pole Flame Proof Motors.

IE2 SERIES TEFC SCR FLAME PROOF MOTORS

Foot mounted (B3 construction) 3 Phase Squirrel Cage Induction Motor, 415V $\pm 10\%$, 50Hz $\pm 5\%$, Combined Variation $\pm 10\%$, Insulation Class F, with temperature rise limited to Class B, Degree of Protection IP55, Duty S1, Ambient Temperature 45° C, Conforms to IS/IEC 60079-1:2007, IE2 efficiency class conforming to IS:12615: 2011, Gas Group IIA, IIB.

3000 RPM 2 Pole					
kW	HP	Frame	Type	Price	Excise
0.37	0.50	80	2J0802A3	25350	1188
0.55	0.75	80	2J0802B3	28340	1328
0.75	1.00	80	2J080213	29200	1369
1.10	1.50	80	2J080233	32710	1533
1.50	2.00	90L	2J09L243	36570	1714
2.20	3.00	100L	2J10L213	45720	2143
3.70	5.00	112M	2J11M233	58000	2719
5.50	7.50	132S	2J13S2G3	82370	3861
7.50	10.00	132S	2J13S2N3	90870	4260
9.30	12.50	160M	2J16M233	154420	7238
11.00	15.00	160M	2J16M253	156730	7347
15.00	20.00	160M	2J16M263	193610	9075
18.50	25.00	160L	2J16L293	220250	10324
22.00	30.00	180L	2J18L233	249180	11680
30.00	40.00	200L	2J20L2A3	336390	15768
37.00	50.00	200L	2J20L253	436460	20459
45.00	60.00	225M	2J22M253	551570	25855
55.00	75.00	280S	2J28S213	677080	31738
75.00	100.00	280M	2J28M233	866340	40610
90.00	120.00	280M	2J28M253	897680	42079
110.00	150.00	315S	2J31S233	1040050	48752
125.00	170.00	315M	2J31M2A3	1220680	57219
132.00	180.00	315M	2J31M233	1233160	57804
150.00	200.00	315L	2J31L2A3	1354960	63514
160.00	215.00	315L	2J31L253	1398090	65535
180.00	240.00	315L	2J31L2B3	1676220	78573

1500 RPM 4 Pole					
kW	HP	Frame	Type	Price	Excise
0.37	0.50	80	2J080413	24900	1167
0.55	0.75	80	2J080433	27480	1288
0.75	1.00	80	2J080453	28570	1339
1.10	1.50	90L	2J09L423	32690	1532
1.50	2.00	100L	2J10L453	39120	1834
2.20	3.00	112M	2J11M433	46070	2160
3.70	5.00	132S	2J13S4B3	61790	2896
5.50	7.50	132S	2J13S4K3	78620	3685
7.50	10.00	160M	2J16M4A3	89570	4199
9.30	12.50	160M	2J16M4C3	137120	6428
11.00	15.00	160M	2J16M4K3	144880	6791
15.00	20.00	160L	2J16L4T3	176450	8271
18.50	25.00	180L	2J18L473	191050	8955
22.00	30.00	200L	2J20L433	227080	10644
30.00	40.00	200L	2J20L453	306060	14347
37.00	50.00	225M	2J22M433	398640	18686
45.00	60.00	250M	2J25M413	501850	23524
55.00	75.00	280S	2J28S413	616440	28896
75.00	100.00	280S	2J28S423	756440	35458
90.00	120.00	280M	2J28M453	771080	36144
110.00	150.00	315S	2J31S413	921680	43204
125.00	170.00	315M	2J31M4A3	1060820	49726
132.00	180.00	315M	2J31M433	1104990	51796
150.00	200.00	315L	2J31L4A3	1148640	53843
160.00	215.00	315L	2J31L453	1160280	54388
180.00	240.00	315L	2J31L463	1388910	65105
* 200.00	270.00	315L	2J31L473	1672060	78378

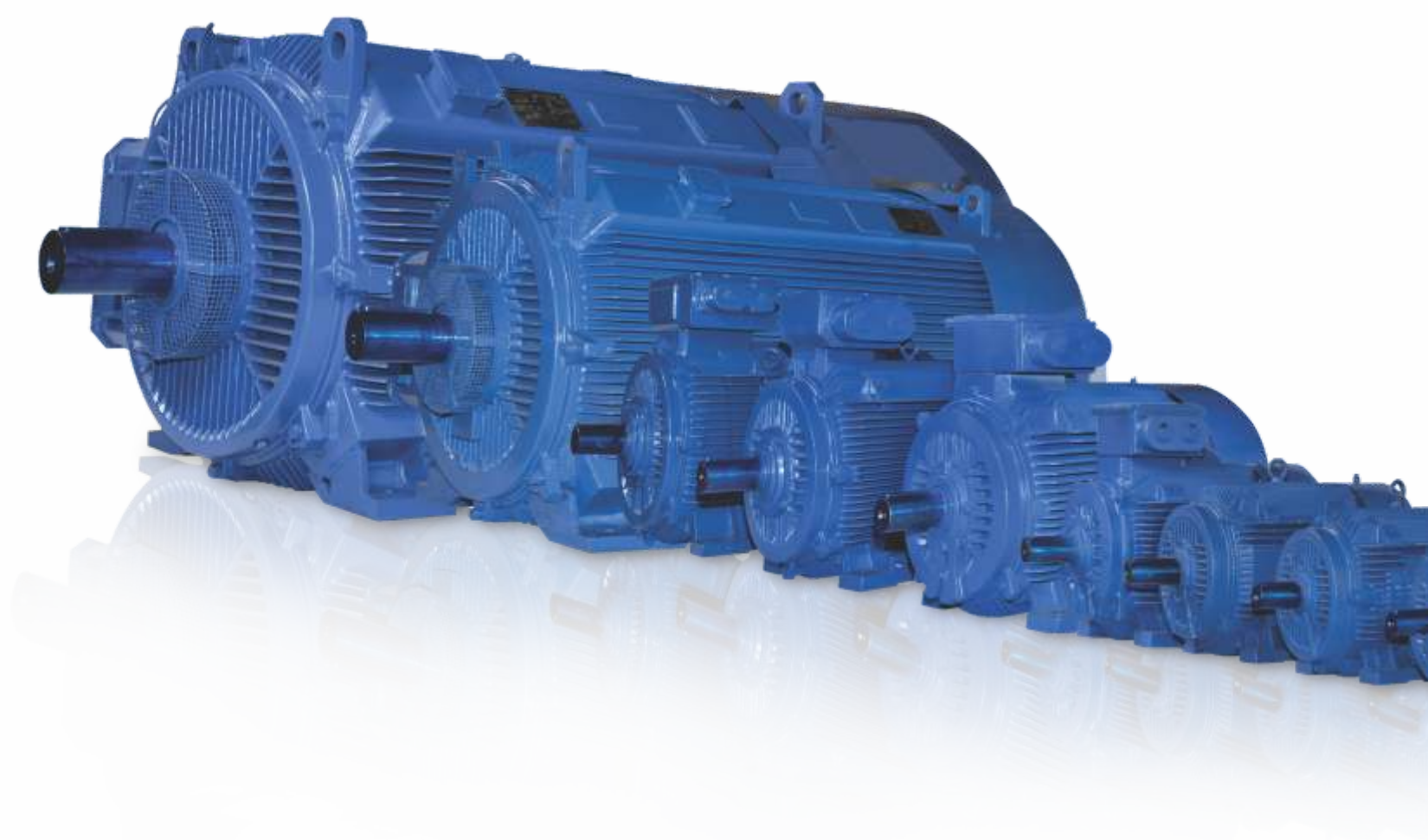
All motors are with T Box on top.

Frames 112 & 132 can be offered with T Box on RHS on request.

Frames 160 to 280 can be offered with T Box on RHS/LHS on request.

* These ratings are suitable for Ambient Temperature 40° C.





**Complete range of BBL motors from frame 56 to 450
(0.12kW to 1250kW) suitable for all applications across industries.**



IE2 SERIES TEFC SCR FLAME PROOF MOTORS

Foot mounted (B3 construction) 3 Phase Squirrel Cage Induction Motor, 415V $\pm 10\%$, 50Hz $\pm 5\%$, Combined Variation $\pm 10\%$, Insulation Class F, with temperature rise limited to Class B, Degree of Protection IP55, Duty S1, Ambient Temperature 45° C, Conforms to IS/IEC 60079-1:2007, IE2 efficiency class conforming to IS:12615: 2011, Gas Group IIA, IIB.

1000 RPM 6 Pole					
kW	HP	Frame	Type	Price	Excise
0.37	0.50	80	2J080613	28950	1357
0.55	0.75	80	2J080633	29700	1392
0.75	1.00	90L	2J09L633	34620	1623
1.10	1.50	90L	2J09L653	35640	1671
1.50	2.00	100L	2J10L633	51610	2419
2.20	3.00	112M	2J11M653	59970	2811
3.70	5.00	132S	2J13S6G3	79450	3724
5.50	7.50	132M	2J13M6T3	96300	4514
7.50	10.00	160M	2J16M633	149010	6985
9.30	12.50	160L	2J16L663	172210	8072
11.00	15.00	160L	2J16L673	182510	8555
15.00	20.00	180L	2J18L633	233460	10943
18.50	25.00	200L	2J20L633	290350	13610
22.00	30.00	200L	2J20L653	314960	14764
30.00	40.00	225M	2J22M643	516340	24203
37.00	50.00	250M	2J25M633	634150	29726
45.00	60.00	280S	2J28S613	736510	34524
55.00	75.00	280M	2J28M633	794400	37238
75.00	100.00	315S	2J31S613	931540	43666
90.00	120.00	315M	2J31M633	1092360	51204
110.00	150.00	315M	2J31M653	1197600	56138
125.00	170.00	315L	2J31L6A3	1417100	66427
132.00	180.00	315L	2J31L673	1451690	68048
150.00	200.00	315L	2J31L6B3	1698740	79628
160.00	215.00	315L	2J31L693	1829020	85735

All motors are with T Box on top.

Frames 112 & 132 can be offered with T Box on RHS on request.

Frames 160 to 280 can be offered with T Box on RHS/LHS on request.



HIGH EFFICIENCY TEFC SCR 8 POLE FLAME PROOF MOTORS

Foot mounted (B3 construction) 3 Phase Squirrel Cage Induction Motors, 415V $\pm 10\%$, 50Hz $\pm 5\%$, Combined Variation $\pm 10\%$, Insulation Class F, with temperature rise limited to Class B, Degree of Protection IP55, Duty S1, Ambient Temperature 45° C, Conforms to, IS/IEC 60079-1-2007, Gas Group IIA, IIB.

750 RPM 8 Pole					
kW	HP	Frame	Type	Price	Excise
0.37	0.50	90 L	MJ09L833	31540	1478
0.55	0.75	90 L	MJ09L853	34130	1600
0.75	1.00	100 L	MJ10L813	41240	1933
1.10	1.50	100 L	MJ10L833	48130	2256
1.50	2.00	112 M	MJ11M813	57450	2693
2.20	3.00	132 S	MJ13S8B3	75670	3547
3.70	5.00	160 M	MJ16M813	121990	5718
5.50	7.50	160 M	MJ16M833	140360	6579
7.50	10.00	160 L	MJ16L873	171420	8035
9.30	12.50	180 L	MJ18L813	218610	10247
11.00	15.00	180 L	MJ18L833	230390	10800
15.00	20.00	200 L	MJ20L833	312070	14628
18.50	25.00	225 S	MJ22S823	388530	18212
22.00	30.00	225 M	MJ22M833	507350	23782
30.00	40.00	250 M	MJ25M813	627550	29416
37.00	50.00	280 S	MJ28S823	804960	37733
45.00	60.00	280 M	MJ28M853	831090	38957
55.00	75.00	315 S	MJ31S813	918720	43065
75.00	100.00	315 M	MJ31M833	1076040	50439
90.00	120.00	315 M	MJ31M853	1177710	55205
110.00	150.00	315 L	MJ31L873	1473150	69054
125.00	170.00	315 L	MJ31L8A3	1738190	81478
132.00	180.00	315 L	MJ31L893	1790740	83941

All motors are with T Box on top.

Frames 112 & 132 can be offered with T Box on RHS on request.

Frames 160 to 280 can be offered with T Box on RHS/LHS on request.





CRANE & HOIST DUTY TEFC SCR MOTORS

Foot mounted (B3 construction) 3 Phase Squirrel Cage Induction Motors suitable to operate on DOL supply, 415V $\pm 10\%$, 50Hz $\pm 5\%$, Combined Variation $\pm 10\%$, Insulation Class F, Degree of Protection IP55, Ambient Temperature 45°C, 150 Starts/Stops per hour, Duty S4, CDF 40%, Conforms to IS/IEC 60034 – 1.

1500 RPM 4 Pole					
kW	HP	Frame	Type	Price	Excise
0.55	0.75	71	MC071433	11520	540
0.75	1.00	80	MC080413	12810	600
1.10	1.50	80	MC080433	13510	633
1.50	2.00	90S	MC09S433	14780	693
2.20	3.00	90L	MC09L453	16130	756
3.70	5.00	100L	MC10L453	21350	1001
5.50	7.50	112M	MC11M453	28610	1341
7.50	10.00	132S	MC13S4G3	37630	1764
9.30	12.50	132M	MC13M4P3	46050	2159
11.00	15.00	160M	MC16M4A3	68480	3210
15.00	20.00	160M	MC16M4F3	70250	3293
18.50	25.00	160L	MC16L4P3	87370	4095
22.00	30.00	180L	MC18L473	131230	6151
30.00	40.00	200L	MC20L433	177050	8299
37.00	50.00	225S	MC22S413	227450	10662
45.00	60.00	225M	MC22M433	263640	12358
55.00	75.00	250M	MC25M413	361940	16966
75.00	100.00	280S	MC28S413	463290	21717
90.00	120.00	280M	MC28M433	537520	25196
110.00	150.00	315S	MC31S413	676860	31728
132.00	160.00	315M	MC31M433	794070	37222
160.00	215.00	315L	MC31L453	932360	43704
180.00	250.00	315L	MC31L463	1012750	47473
200.00	270.00	315L	MC31L473	1134410	53175

750 RPM 8 Pole					
kW	HP	Frame	Type	Price	Excise
0.55	0.75	90S	MC09S813	15040	705
0.75	1.00	90L	MC09L853	16440	771
1.10	1.50	100L	MC10L813	20210	947
1.50	2.00	100L	MC10L833	24620	1154
2.20	3.00	112M	MC11M833	28560	1339
3.70	5.00	132S	MC13S8G3	41500	1945
5.50	7.50	160M	MC16M833	62270	2919
7.50	10.00	160L	MC16L873	91800	4303
9.30	12.50	180M	MC18M813	119330	5594
11.00	15.00	180L	MC18L833	125700	5892
15.00	20.00	200L	MC20L833	177600	8325
18.50	25.00	225S	MC22S813	229130	10740
22.00	30.00	225M	MC22M833	276570	12964
30.00	40.00	250M	MC25M813	371910	17433
37.00	50.00	280S	MC28S823	475340	22282
45.00	60.00	280M	MC28M853	551470	25850
55.00	75.00	315S	MC31S813	660120	30943
75.00	100.00	315M	MC31M833	830530	38931
90.00	120.00	315M	MC31M853	933120	43740
110.00	150.00	315L	MC31L873	985310	46186
132.00	180.00	315L	MC31L893	1153960	54092

1000 RPM 6 Pole					
kW	HP	Frame	Type	Price	Excise
0.37	0.50	71	MC071633	12610	591
0.55	0.75	80	MC080613	13580	637
0.75	1.00	80	MC080633	14580	683
1.10	1.50	90L	MC09L6A3	15700	736
1.50	2.00	90L	MC09L653	16450	771
2.20	3.00	100L	MC10L653	22020	1032
3.70	5.00	112M	MC11M653	27580	1293
5.50	7.50	132S	MC13S6G3	40260	1887
7.50	10.00	132M	MC13M6T3	46990	2203
9.30	12.50	160M	MC16M633	72400	3394
11.00	15.00	160L	MC16L663	85530	4009
13.00	17.50	160L	MC16L673	90210	4229
17.00	23.00	180L	MC18L633	123010	5766
22.00	30.00	200L	MC20L633	174040	8158
30.00	40.00	225M	MC22M623	271290	12717
37.00	50.00	250M	MC25M603	365490	17132
45.00	60.00	280S	MC28S613	465690	21829
52.00	70.00	280M	MC28M633	528300	24764
70.00	95.00	315S	MC31S613	648950	30420
85.00	115.00	315M	MC31M633	816430	38270
102.00	135.00	315M	MC31M653	909470	42631
125.00	167.00	315L	MC31L673	1056600	49528
150.00	200.00	315L	MC31L693	1099840	51555





CRANE DUTY TEFC SLIP RING MOTORS

B3 construction, 3 Phase Slipring Induction Motor, 415V $\pm 10\%$, 50Hz $\pm 5\%$, Combined Variation $\pm 10\%$, Insulation Stator/Rotor Class F/F, Degree of Protection IP55, Ambient Temperature 45° C, Duty S4, CDF 40%, 60 Starts/ Stops per hour, Conforms to IS/IEC 60034 - 1.

1000 RPM 6 Pole					
kW	HP	Frame	Type	Price	Excise
1.10	1.50	100L	MP10L613	58800	2756
1.50	2.00	100L	MP10L623	62130	2912
2.40	3.20	112M	MP11M623	66840	3133
3.30	4.40	112M	MP11M643	81550	3823
4.00	5.30	132M	MP13M613	88060	4128
5.50	7.50	132M	MP13M663	95970	4499
7.00	9.40	160L	MP16L613	115280	5404
10.00	13.40	160L	MP16L653	146590	6871

TEXTILE MOTORS - RING FRAME

B3 construction, 3 Phase Squirrel Cage Induction Motor, 415V $\pm 10\%$, 50Hz $\pm 5\%$, Combined variation $\pm 10\%$, Insulation Class F, Degree of Protection IP55, Ambient Temperature 45° C, Conforms to IS/IEC 60034-1.

1500 RPM 4 Pole					
kW	HP	Frame	Type	Price	Excise
2.20	3.00	100L	MR10L453	20460	959
3.70	5.00	112M	MR11M453	26180	1227
5.50	7.50	132S	MR13S453	36090	1692
7.50	10.00	132M	MR13M483	42110	1974
9.30	12.50	160M	MR16M413	65700	3080
11.00	15.00	160M	MR16M433	67390	3159
13.00	17.50	160L	MR16L453	77360	3626
15.00	20.00	160L	MR16L473	83740	3925



Note:

1. This LP replaces our LP35 Revision 2 dated 18th February 2014.
2. Prices mentioned are maximum recommended selling prices and are subject to change without notice.
3. Prices are Ex-Works / Ex-Godown exclusive of Excise duty, Sales tax and other Central / Local levies which will be charged extra at actual.
4. kW & HP are indicated, however kW is binding and HP is approximate.
5. Product upgradation is a continuous process, hence data in this price list is subject to change without prior notice. For latest information please contact our Sales Office.

Extra Price Calculations

- a) Wherever percentage is mentioned, add to LP and then offer discount.
- b) Where absolute values are mentioned, same to be directly added to the net price (no discount applicable on absolute values).

S.No.	FEATURES	EXTRA CHARGES			REMARKS
1.00	MECHANICAL FEATURES				
1.01	TYPE OF CONSTRUCTION (MOUNTING)				
	(a) B3,B6,B7,B8,V5 & V6	Nil			
	(b) Std. Flange /Face mounting(B14,B5,V1,V18 & V19)				
	(i) 63 to 160 Frame	3%			
	(ii) 180 Frame & above	5%			
	(c) Foot cum Flange /Face mounting				
	(i) 63 to 160 Frame	3%			
	(ii) 180 Frame & above	5%			
1.02	Canopy				
	(a) Canopy (Top plate) for V1/V5 construction (Mandatory)	5%			Subject to max Rs 5000/- For Frame 160 & above
	(b) FRP Canopy (Only for RHS T-Box)	5%			
1.03	Shaft Extension				
	(a) Non-standard single /double shaft extension with diameter & length less than or equal to standard	5%			
	(b) Non-standard single /double shaft extension with length restricted to 2.5 times	10%			
	(c) For any higher diameter	Refer to Sales Office			
	(d) EN24 / EN57 material	10%			
	(e) Stainless Steel Shaft material	15%			
1.04	Painting				
	(a) Anti corrosive treatment with acid alkali epoxy paint & epoxy gel coat on winding overhang & SS nameplate (Paint shade AAP 631 & AAP 632 only)	5%			Subject to max Rs 5000/- (AAP not to be charged extra for hazardous & marine duty motors) Subject to max Rs 7000/- In case of specific brand required, please refer to Sales Office
	(b) Non-standard shade of paint (i.e other than standard shade of Bharat Bijlee)	5%			
	(c) Only Epoxy gel coat on winding overhang	2%			
	(d) Additional paint thickness more than 70 micron upto 120 microns (Acrylic Paint)	5%			
	(e) For higher thickness > 120 micron	Refer to sales office			
1.05	Enclosure / Types: IP56/IP65 protection	5%			
1.06	Motors for Hazardous Areas. With anti corrosive treatment, acid alkali proof epoxy paint & epoxy gel coat on winding overhang & S S nameplate				
	(a) Non Sparking Motors (Type 'nA')	7.50%			
	(b) Increased Safety Motors (Type 'e')	15%			
	(c) Plug & socket arrangement for FLP motors				
	- 30 Amps. 600 V	Rs 17800/-			
	- 110 Amps. 600 V	Rs 21000/-			
	- 150 Amps. 600 V	Rs 28600/-			
1.07	Textile Motors	5%			
1.08	Motors for Inverter Duty - upto 500V	Fr 63-225	Fr 250-280	Fr 315 & above	
	(a) Inverter Grade Winding	5%	5%	NA	
	(b) Only dual coat wire	3%	3%	Nil	
	(c) Only VPI	5%	5%	Nil	
	(d) Dual coat wire & VPI	8%	8%	Nil	
1.09	Motors for Inverter Duty - 500 -690 V	Refer to Sales Office			Default in case of H Cl. Insuln

S.No.	FEATURES	EXTRA CHARGES	REMARKS
1.10	Forced Cooling (Fan with motor+Cowl)		
	(a) Frame 132 to 280	15%	
	(b) Frame 315 to 400	10%	
1.11	Provision for Encoder Mounting	5%	Minimum Rs 3000/- Maximum Rs 7500/-
1.12	Space Heater		Standard for DCCA Motors
	(a) Frame 90 to 160	Rs 1380/-	
	(b) Frame 180 to 225	Rs 2750/-	
	(c) Frame 250 to 355	Rs 3800/-	
	(d) Frame 80 to 180 with Sealing Box(FLP)		
	(i) Frame 80 to 132	Rs 2900/-	
	(ii) Frame 160 to 180	Rs 4700/-	
	(e) Frame 200 & above with additional T Box (FLP)	Rs 5400/-	
1.13	Sealing Box (Cable end box for FLP Motor)		
	(a) Frame 90 to 132	Rs 1540/-	
	(b) Frame 160 & above	Rs 1980/-	
1.14	Cable Glands	Per Gland	
	Double Compression Gland for FLP		
	(a) Frame 63 to 132 - DOL	Rs 1200/-	
	(b) Frame 160 to 225 - DOL	Rs 2200/-	
	(c) Frame 250 to 315 - DOL	Rs 2900/-	
1.15	Provision for fitment of extended brake on NDE side (e.g. EMCO)	15%	Upto frame 160
1.16	Low Vibration-IS 12075:2008/IEC 60034-14:2007		
	(a) Reduced Vibration	10%	
	(b) Special Vibration	20%	
1.17	Bearings		
	(a) Roller Bearing at DE Side in place of ball bearing		
	(i) Frame 160 to 180	Rs 1800/-	
	(ii) Frame 200 to 250	Rs 3000/-	
	(iii) Frame 280 to 355	Rs 10000/-	
	(iv) Frame 400 to 450	Rs 22000/-	
	(b) Hybride Bearing		
	(i) NDE - Frame 132	Rs 17000/-	
	(ii) NDE - Frame 160-180	Rs 18600/-	
	(iii) NDE - Frame 200-225	Rs 19500/-	
	(C) Insulated Bearings		
	(i) NDE - Frame 250, 280,315	Rs 33,600/-	
	(ii) NDE - Frame 355, 400	Rs 47,000/-	
	(iii) NDE - Frame 450	Rs 85,000/-	
1.18	Longer core length in same frame	10%	
1.19	Other Miscellaneous Features		
	(a) Larger Size T Box/Higher/C I T Box/Aux.T.Box	2%	
	(b) C I Fan (where plastic fan is standard)	2%	
	(c) S.S. Hardware	2%	
	(d) Locked bearing upto Frame 112	5%	
	(e) Seaworthy/export packing case for home market (without fumigation certificate)	5%	Subject to max Rs 5500/-
	(f) Flying leads (length not exceeding 1.5mtr)	2%	Subject to max Rs 3500/-
	(g) Extra Name Plate	Rs 300/-	
	(h) Direction Arrow Plate	Rs 500/-	
	(i) Spread box (frames 160-450)	2%	Excluding FLP Motors

S.No.	FEATURES		EXTRA CHARGES		REMARKS
	(j)	On Line Greasing Arrangement	Rs 950/-		For 180-200 Fr only (For 132-160 Fr Refer to sales office) Excluding FLP Motors
	(k)	SPM Nipples provision	2%		
	(l)	High Temperature Grease (Molycot 44) (For other grade High Temperature Grease refer to Sales Office)	63-100 Fr 112-160 Fr 180-280 Fr 315-355 Fr 400-450 Fr	Rs 800/- Rs 1600/- Rs 4000/- Rs 6400/- Rs 22,000/-	
	(m)	3, 4 cable Run T Box	5%		
2.00	ELECTRICAL FEATURES				
2.01	Base voltage between 250-550 V				
	(a)	415 V 50 Hz	Nil		
	(b)	Non Std Voltage 220- 550 V,50Hz/60Hz	3%		
	(c)	Dual voltage with 1:2 ratio example 220/440V	3%		
2.02	Insulation Class 'H'		10%		
2.03	Thermistors/Thermostats				For Frame 71 & above
	(a)	Set of 3 nos PTC Thermistors without controller	Rs 2400/-		
	(b)	Set of 6 nos PTC Thermistors without controller	Rs 4800/-		
	(c)	Thermostats per unit	Rs 600/-		
2.04	Multispeed Motors				
	(a)	Single tapped winding upto 8 pole	10%		
	(b)	Dual speed with separate winding or polarity above 8 pole	17.50%		
	(c)	Motors with 10,12,16, Poles	10%		
	(d)	Multi speed Motor with more than 2 speed	Refer to Sales Office		
2.05	RTD : Simplex - For Frame 200 & above				Standard for DCCA Motors
	(a)	RTD- 3 nos. (1 per phase)	Rs 4500/-		
	(b)	RTD- 6 nos. (2 per phase)	Rs 9000/-		
2.06	BTD : Simplex - 2 nos for Frame 250 & above		Rs 8600/-		Standard for DCCA Motors
3.00	OTHER CHARGES				
3.01	Routine Testing				
	(a)	Frame 63 to 132	Rs 1400/-		
	(b)	Frame 160 to 225	Rs 3350/-		
	(c)	Frame 250 & above	Rs 6600/-		
3.02	TYPE TEST				
	(a)	Frame 63 to 132	Rs 4900/-		
	(b)	Frame 160 to 225	Rs 7200/-		
	(c)	Frame 250 to 315	Rs 13500/-		
	(d)	Frame 355 & above	Rs 16000/-		
3.03	FLP Pressure Test				
	(a)	Frame 80-160	Rs 3200/-		
	(b)	Frame 180-315	Rs 7800/-		

S.No.	FEATURES	EXTRA CHARGES	REMARKS
3.04	Combined Testing for Hazardous Area Motors in presence of approved test house (Ex-'d', Ex-'e', Ex-'nA') (a) Frame 63 to 132 (b) Frame 160 to 225 (c) Frame 250 to 315 (d) Frame 355 & above	Rs 150000/- Rs 170000/- Rs 180000/- Rs 200000/-	With prior confirmation from Sales Office
3.05	Motor testing with Inverter Drive	Refer to Sales Office	
3.06	Dimension Measurement (a) Frame 63 to 132 (b) Frame 160 to 225 (c) Frame 250 & above	Rs 400/- Rs 400/- Rs 400/-	
3.07	Noise & Vibration Test (a) Frame 63 to 132 (b) Frame 160 to 225 (c) Frame 250 & above	Rs 600/- Rs 700/- Rs 900/-	
3.08	Motors dispatch under Nil Excise Duty Dispatch under any government project notification e.g. Water treatment plant	6.00%	
3.09	Documentation Charges (Technical/Commercial) (a) Documents for approval/submission (b) Reproducible tracing copies for final submission (c) Marine Motors' documentation	Per Rating Rs 1600/- Rs 5800/- Rs 15000/-	Refer to sales office

Notes:

- 1) All % (percentage) figures are to be loaded on List Price.
- 2) All Rs Figures are to be added on net price.
- 3) Inspection charges are subject to Excise & Taxes.





Large Motors With Dual Circuit Cooling Arrangement (DCCA)

Higher Output

Increased
Reliability



Inverter Grade
Winding

Frame 355 to 450

MEDIUM VOLTAGE MOTORS

Voltage - From 690 V to 6.6 kV

Cooling - Type IC 411/IC 416

Construction - Horizontal (IM B3)/Vertical (IM V1)

Frame Size - 355L, 400ML AND 450 ML

kW Range - 160-1000 (4pole), 160-750 (6pole), 160-560 (8 pole)

TEFC - BBL TYPE MV

Frequency - 50 & 60 Hz

Protection - IP 55/IP 56

Starting - DOL/VFD

Standards - IS/IEC



STANDARD FEATURES:

- Compact TEFC motors for high efficiency in cast iron/fabricated mild steel construction
- Dual cooling circuit for even temperature distribution
- Bearing cooling fan on DE for lower bearing temperature & longer regreasing intervals
- On line re-greasing arrangement with grease outlet
- Class F Insulation with Class B rise
- Ambient 40 °C & Altitude ≤ 1000M
- Mica based Epoxy vacuum pressure impregnated (VPI) insulation system for long life
- Aluminum Pressure Die Cast Rotor for ruggedness
- Platinum type Simplex RTDs-6 No for windings
- Bearing temperature detectors-2 No Platinum Simplex RTDs. One each at DE and & NDE
- Space heater
- Suitable for direct drive through flexible couplings without external thrust

ADDITIONAL OPTIONAL FEATURES (Available on request at extra charge)

- Neutral Terminal Box for Star point
- Dial type Thermometers for bearings with/without contacts
- Suitability for higher Ambient temperature or Altitude
- Suitability for Pulley/Gear Drive/External thrust
- B3/B5 mounting
- Phase segregated type main terminal box to prevent & withstand high fault levels

Kindly check for other number of poles /voltage/features.

IE3 PREMIUM EFFICIENCY MOTORS

Low Pay
Back
Period



Range - 0.75 kW To 315kW

Frame - 80 to 355

Polarity - 2, 4, 6

Ambient - 50° C With Class B Temperature Rise

Mounting - B3, B5, B35, V1

Confirms To IS/IEC - 12615:2011 / IEC 60034-30:2008

Premium Efficiency

Inverter Grade Winding

Reduced Noise/Vibration Level

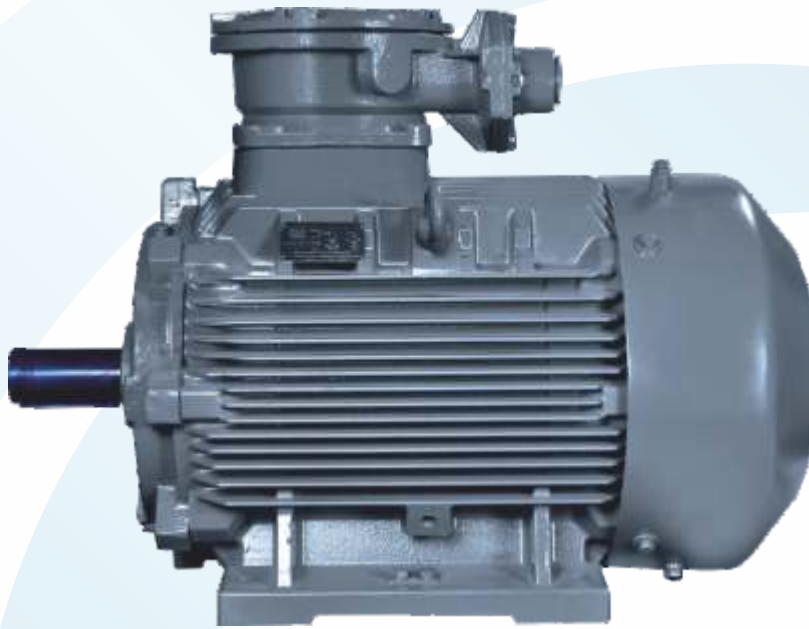
Six Lead Terminal Box

Dual Mounting Hole

Reduced Life Cycle Cost

Customization - Mechanical And Electrical

HAZARDOUS AREA MOTORS

**Range**

- 0.37kW to 200kW - Flame Proof (Ex d)
- 0.12kW to 560kW - Non Sparking (Ex nA)
- 0.12kW to 400kW - Increased Safety (Ex e)

Frame - 80 to 315 - Flame Proof

63 to 400 - Non Sparking

63 to 355 - Increased Safety

Polarity - 2, 4, 6, 8 (Other polarities on request)**Ambient** - 45° C with Class B Temperature Rise

Temperature Class - T1, T2, T3, T4

Mounting - B3, B5

- Approvals as per latest specification IS/IEC 60079-0 2007.
- Certifications - PESO/DGMS
- Combined Testing Facility

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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