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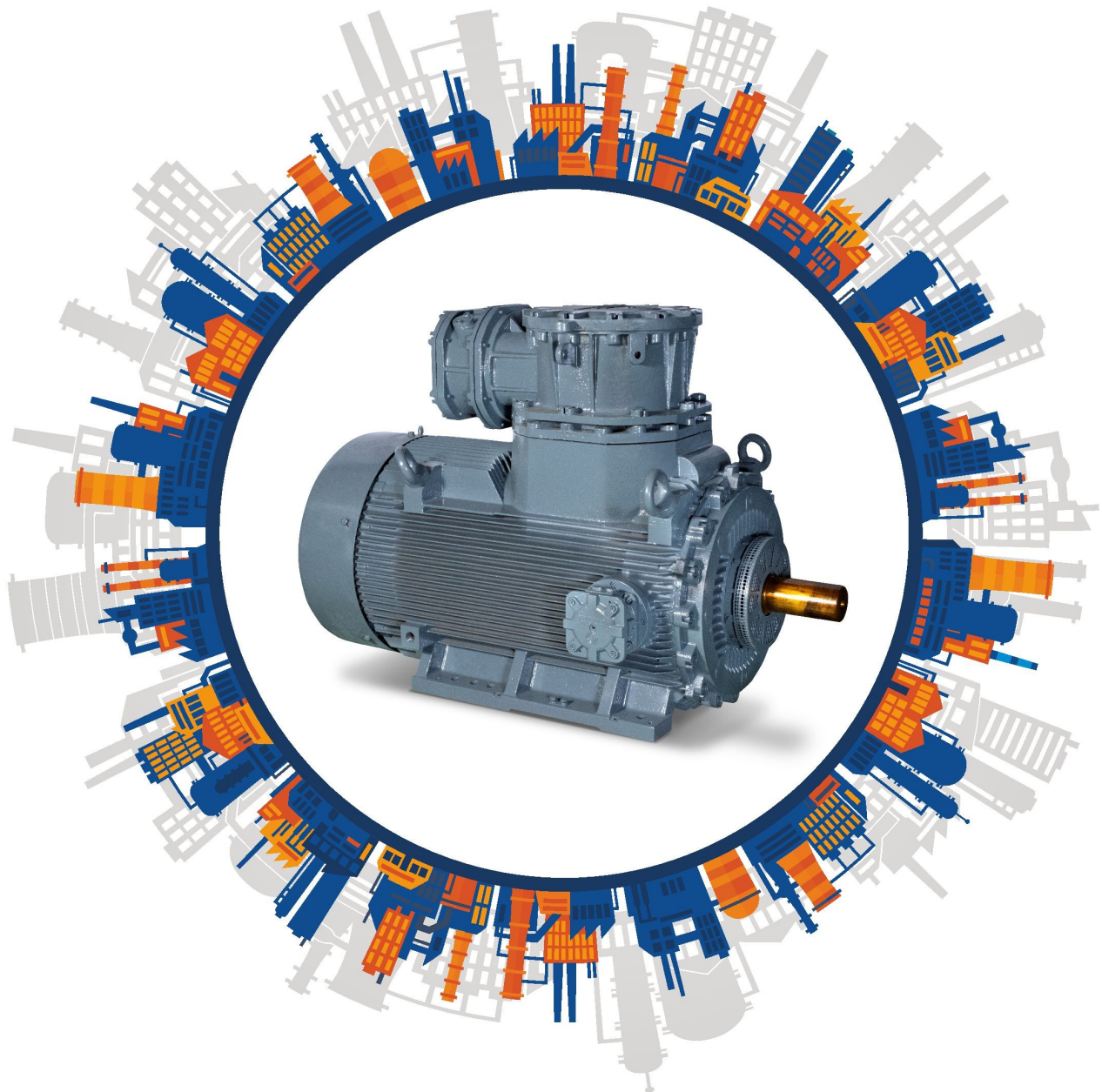
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## **MOTORS PRICE LIST**

**LP44 Rev.01 w.e.f. 02<sup>nd</sup> July 2024**



**A MOTOR FOR EVERY NEED**

 LONG LASTING

 WIDE RANGE

 ENERGY EFFICIENT

 RELIABLE

**MOTORS PRODUCT RANGE**



**General Purpose Motors for Safe Area**

- IE2 series
- IE3 series motors



**Hazardous Area Motors**

- Flame Proof Ex'd' Motors in standard, IE2 and IE3 efficiency series
- Increased Safety Ex ec Motors in IE2 & IE3



**Special Purpose Motors**

- Brake Motors
- Crane & Hoist Duty Motors
- Slip Ring Motors
- Cane Unloader Motors



**High Efficiency Large Frame Motors with DCCA**



**SynchroVERT®**

IE 4 Super Premium Efficiency Motors



**MV Motors upto 1000 kW**

- Safe Area Motors: upto 11kV
- Non Sparking Ex(nA) Motors: upto 11kV

For Bharat Bijlee Motors Catalogues, please scan below QR codes from your smartphone



Product Range Flyer



IE2 Safe Area Motors



IE3 Safe Area Motors



Flameproof Motors Flyer



IE2 Flameproof Motors



IE3 Flameproof Motors

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## LV MOTORS: AN INTRODUCTION

The 18th century saw the advent of various technologies that led to the Industrial Revolution. Machines started replacing manual labour with an intent to increase productivity. Today, we are in a world where technology is advancing at an unprecedented rate and the backbone of this advancement is the most reliable and sustainable set of drivers. As one of the emerging nations India is progressively adopting technologies and systems that guarantee the next level of performance. Electric motors are the prime movers for a large part of industry. It is hence imperative to have the most efficient and reliable motors to drive all possible applications.

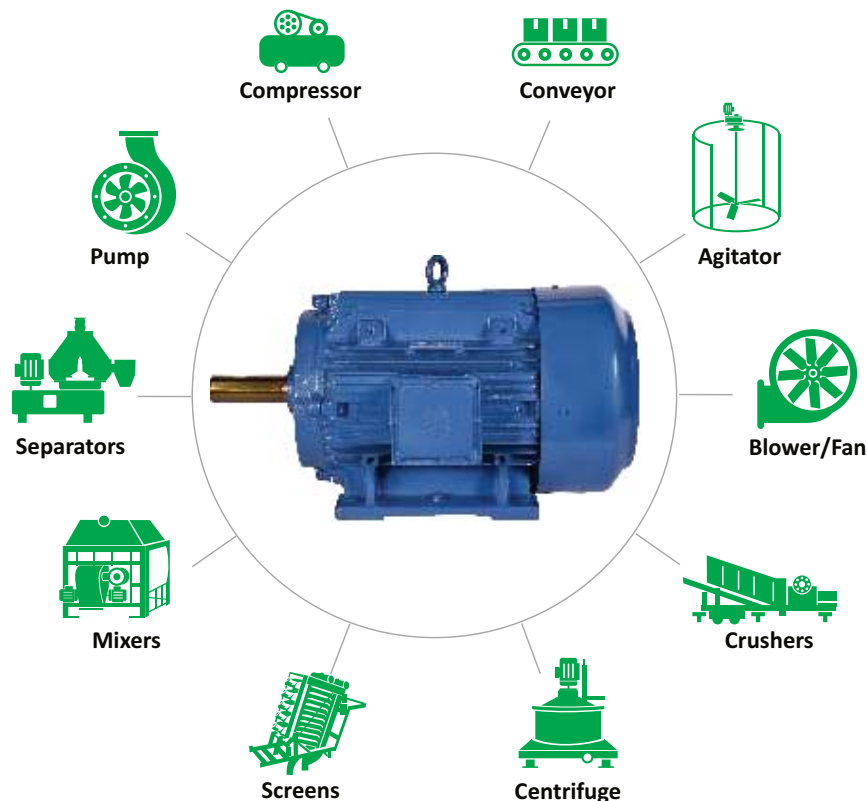
Bharat Bijlee has been manufacturing motors since 1946 and has developed a wide range of motors to suit various applications. Adherence to stringent quality norms in our manufacturing process ensures successful operation of our motors during their lifespan. With an in-house design team and state-of-the-art manufacturing facility, we have developed the skill, expertise and competence to manufacture highly customized motors and also for the most severe of applications. Owing to our emphasis on customer satisfaction in all aspects of product and service, we are the most trusted brand in the industry.

### Why Bharat Bijlee?

-  Preferred brand across various sectors viz cement, construction, steel, food and beverages, water and wastewater, sugar, distilleries, paper, oil and gas, mining, power and chemical.
-  Track record of over 4 million motors working successfully in the industry.
-  Customized motors designed and manufactured to suit application specific needs.

-  Stable operation on all applications (see illustration below).
-  Suitable for extremely harsh and severe applications.
-  Motors conform to relevant IS/IEC standards and other statutory requirements.

The manufacturing facility for our entire portfolio is located across a 1,70,321 sq. metres campus in Airoli, Navi Mumbai. This is supported by an extensive sales and service network across the country and a central BB ServiceLINE® desk.



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## PRICE LIST GUIDELINES

1. This Price List : LP44 Rev.01 w.e.f. 02.07.2024 supercedes all our earlier Price Lists.
2. Prices menoned are maximum recommended selling prices and Bharat Bijlee Limited reserves the right to change the prices without prior notice.
3. Prices menoned are in Indian Rupees.
4. Prices are exclusive of GST, other taxes and levies. GST, other taxes and levies shall be charged extra as applicable at the rate prevailing at the time of dispatch.
5. kW and HP are indicated; kW is binding and HP is approximate.
6. Product upgradation is a continuous process, hence data in this price list is subject to change without prior notice.

### **7. Cash Extra Price Calculations:**

- 7.1 Wherever cash extras are in percentage please add to the list price and then apply discount.
- 7.2 Where cash extras are in absolute values please add them to the discounted net price i.e. after applying the discount. Discounts are not applicable on absolute values.

**For latest information, queries and enquiries please contact our nearest sales office.**

## IE2 Series Safe Area 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, Method of Cooling : Totally Enclosed Fan Cooled, Duty: S1, Ambient Temperature 50° C, Conforms to IS/IEC 60034 & IS: 12615.

3000 rpm 2 Pole: Cast Iron Construction				
KW	HP	Frame	Type	LP44
0.75	1.00	80	2H080213CT000	25,230
1.10	1.50	80	2H080233CT000	28,600
1.50	2.00	90S	2H09S243CT000	33,000
2.20	3.00	90L	2H09L273CT000	40,410
3.70	5.00	100L	2H10L233CT000	50,220
5.50	7.50	132S	2H13S2G3CT000	85,390
7.50	10.00	132S	2H13S2N3CT000	94,520
9.30	12.50	160M	2H16M233CT000	1,55,380
11.00	15.00	160M	2H16M253CT000	1,65,810
15.00	20.00	160M	2H16M263CT000	1,78,840
18.50	25.00	160L	2H16L293CT000	2,29,800
22.00	30.00	180M	2H18M233CT000	2,65,090
30.00	40.00	200L	2H20L2A3CT000	3,65,340
37.00	50.00	200L	2H20L273CT000	4,32,890
45.00	60.00	225M	2H22M253CT000	5,57,050
55.00	75.00	250M	2H25M233CT000	7,65,460
75.00	100.00	280S	2H28S233CT000	10,16,820
90.00	120.00	280M	2H28M253CT000	11,68,480
110.00	150.00	315S	2H31S23300000	15,28,990
125.00	170.00	315M	2H31M2A300000	17,55,040
132.00	180.00	315M	2H31M23300000	17,96,210
150.00	200.00	315L	2H31L2A300000	20,18,080
160.00	215.00	315L	2H31L25300000	20,20,210
180.00	240.00	315L	2H31L2B300000	21,26,880
200.00	270.00	355L	2H35L2A300000	25,10,680
250.0	335.00	355L	2H35L21300000	27,20,890
315.0	425.00	355L	2H35L23300000	29,95,810

1500 rpm 4 Pole: Cast Iron Construction				
KW	HP	Frame	Type	LP44
0.55	0.75	80	2H080433CT000	25,290
0.75	1.00	80	2H080453CT000	25,660
1.10	1.50	90S	2H09S423CT000	33,140
1.50	2.00	90L	2H09L473CT000	38,450
2.20	3.00	100L	2H10L473CT000	47,120
3.70	5.00	112M	2H11M473CT000	60,640
5.50	7.50	132S	2H13S4K3CT000	84,700
7.50	10.00	132M	2H13M4T3CT000	97,860
9.30	12.50	132M	2H13M4H3CT000	1,36,530
9.30	12.50	160M	2H16M4C3CT000	1,54,090
11.00	15.00	160M	2H16M4K3CT000	1,56,740
15.00	20.00	160L	2H16L4T3CT000	2,00,340
18.50	25.00	180M	2H18M473CT000	2,59,940
22.00	30.00	180L	2H18L483CT000	2,84,670
30.00	40.00	200L	2H20L453CT000	3,75,790
37.00	50.00	225S	2H22S433CT000	4,29,930
45.00	60.00	225M	2H22M453CT000	5,09,290
55.00	75.00	250M	2H25M433CT000	7,06,780
75.00	100.00	280S	2H28S423CT000	9,23,280
90.00	120.00	280M	2H28M453CT000	10,75,450
110.00	150.00	315S	2H31S413CT000	12,42,050
125.00	170.00	315M	2H31M4A3CT000	14,15,590
132.00	180.00	315M	2H31M433CT000	14,56,300
150.00	200.00	315L	2H31L4A3CT000	17,26,180
160.00	215.00	315L	2H31L453CT000	18,09,100
180.00	240.00	315L	2H31L463CT000	19,21,610
200.00	270.00	315L	2H31L473CT000	19,82,670
250.00	335.00	355L	2H35L41300000	26,99,060
315.00	425.00	355L	2H35L43300000	31,39,350
355.00	475.00	355L	2H35L45300000	37,46,750

3000 rpm 2 Pole: Aluminium Construction				
KW	HP	Frame	Type	LP44
0.12	0.16	56	2H056235AT000	13,620
0.18	0.24	63	2H063213AT000	15,800
0.25	0.33	63	2H063233AT000	16,270
0.37	0.50	71	2H0712A3AT000	18,480
0.55	0.75	71	2H071233AT000	23,730
0.75	1.00	80	2H080213AT000	24,490
1.10	1.50	80	2H080233AT000	26,730
1.50	2.00	90S	2H09S243AT000	30,600
2.20	3.00	90L	2H09L273AT000	39,240
3.70	5.00	100L	2H10L233AT000	48,750
5.50	7.50	132S	2H13S2G3AT000	82,900
7.50	10.00	132S	2H13S2N3AT000	90,300

1500 rpm 4 Pole: Aluminium Construction				
KW	HP	Frame	Type	LP44
0.12	0.16	63	2H063413AT000	15,000
0.18	0.25	63	2H063433AT000	16,950
0.25	0.33	71	2H0714A3AT000	17,180
0.37	0.50	71	2H071433AT000	18,990
0.55	0.75	80	2H080433AT000	24,560
0.75	1.00	80	2H080453AT000	24,910
1.10	1.50	90S	2H09S423AT000	30,690
1.50	2.00	90L	2H09L473AT000	37,320
2.20	3.00	100L	2H10L473AT000	45,750
3.70	5.00	112M	2H11M473AT000	56,140
5.50	7.50	132S	2H13S4K3AT000	79,220
7.50	10.00	132M	2H13M4T3AT000	92,420
9.30	12.50	132M	2H13M4H3AT000	1,32,550

Frame 56 is available only in Aluminium body with flange mounting arrangement.

Frames 63 to 132 are available in Aluminium body with Terminal Box position on Top.

Frames 80 to 132 are also available in Cast Iron body with Terminal Box on Top as standard feature. However Terminal Box on LHS or RHS can be offered on request.

Frames 160 and above are in Cast Iron construction with TB on TOP as standard. TB on LHS or RHS can be offered on request.

\* Prices are exclusive of GST, other taxes & levies. GST, other taxes & levies shall be charged extra as applicable at the rate prevailing at the time of dispatch.



## IE2 Series Safe Area 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, Method of Cooling : Totally Enclosed Fan Cooled, Duty: S1, Ambient Temperature 50° C, Conforms to IS/IEC 60034 & IS: 12615.

1000 rpm 6 Pole: Cast Iron Construction				
KW	HP	Frame	Type	LP44
0.37	0.50	80	2H080613CT000	28,020
0.55	0.75	80	2H080633CT000	28,670
0.75	1.00	90S	2H09S633CT000	32,270
1.10	1.50	90L	2H09L653CT000	36,480
1.50	2.00	100L	2H10L633CT000	50,140
2.20	3.00	112M	2H11M653CT000	56,910
3.70	5.00	132S	2H13S6G3CT000	88,240
5.50	7.50	132M	2H13M6T3CT000	1,06,830
7.50	10.00	160M	2H16M633CT000	1,56,020
9.30	12.50	160L	2H16L663CT000	1,81,150
11.00	15.00	160L	2H16L673CT000	1,91,920
15.00	20.00	180L	2H18L633CT000	2,59,950
18.50	25.00	200L	2H20L633CT000	3,38,860
22.00	30.00	200L	2H20L653CT000	3,70,800
30.00	40.00	225M	2H22M643CT000	5,11,760
37.00	50.00	250M	2H25M633CT000	7,01,240
45.00	60.00	280S	2H28S613CT000	9,09,240
55.00	75.00	280M	2H28M633CT000	10,44,670
75.00	100.00	315S	2H31S613CT000	11,78,370
90.00	120.00	315M	2H31M633CT000	14,61,430
110.00	150.00	315M	2H31M653CT000	16,43,220
125.00	170.00	315L	2H31L6A3CT000	18,72,210
132.00	180.00	315L	2H31L673CT000	19,19,030
150.00	200.00	315L	2H31L6B3CT000	19,47,890
160.00	215.00	315L	2H31L693CT000	20,89,050
180.00	240.00	355L	2H35L6A300000	24,67,660
200.00	270.00	355L	2H35L61300000	26,42,950
250.00	335.00	355L	2H35L63300000	29,12,130

750 rpm 8 Pole: Cast Iron Construction				
KW	HP	Frame	Type	LP44
0.18	0.25	80	2H080813CT000	26,280
0.25	0.33	80	2H080833CT000	29,110
0.37	0.5	90S	2H09S813CT000	36,570
0.55	0.75	90L	2H09L853CT000	40,050
0.75	1	100L	2H10L813CT000	49,210
1.1	1.5	100L	2H10L833CT000	55,690
1.5	2	112M	2H11M813CT000	66,460
2.2	3	132S	2H13S8B3CT000	87,840
3.7	5	160M	2H16M813CT000	1,42,710
5.5	7.5	160M	2H16M833CT000	1,73,760
7.5	10	160L	2H16L863CT000	2,10,970
9.3	12.5	180M	2H18M833CT000	2,83,800
11	15	180L	2H18L873CT000	2,99,290
15	20	200L	2H20L843CT000	3,96,120
18.5	25	225S	2H22S823CT000	5,08,740
22	30	225M	2H22M833CT000	6,11,380
30	40	250M	2H25M813CT000	8,25,530
37	50	280S	2H28S823CT000	11,06,350
45	60	280M	2H28M853CT000	11,87,270
55	75	315S	2H31S813CT000	12,69,910
75	100	315M	2H31M833CT000	15,76,830
90	120	315M	2H31M853CT000	21,35,260
110	150	315L	2H31L873CT000	23,63,210
125	170	315L	2H31L8A3CT000	24,83,560
132	180	315L	2H31L893CT000	26,18,910

1000 rpm 6 Pole: Aluminium Construction				
KW	HP	Frame	Type	LP44
0.18	0.25	71	2H0716A3AT000	20,230
0.25	0.33	71	2H071633AT000	21,040
0.37	0.50	80	2H080613AT000	26,690
0.55	0.75	80	2H080633AT000	27,300
0.75	1.00	90S	2H09S633AT000	30,730
1.10	1.50	90L	2H09L653AT000	34,110
1.50	2.00	100L	2H10L633AT000	48,690
2.20	3.00	112M	2H11M653AT000	54,260
3.70	5.00	132S	2H13S6G3AT000	80,960
5.50	7.50	132M	2H13M6T3AT000	99,840

750 rpm 8 Pole: Aluminium Construction				
KW	HP	Frame	Type	LP44
0.12	0.16	71	2H071833AT000	23,930
0.18	0.25	80	2H080813AT000	25,510
0.25	0.33	80	2H080833AT000	28,260
0.37	0.5	90S	2H09S813AT000	35,500
0.55	0.75	90L	2H09L853AT000	38,510
0.75	1	100L	2H10L813AT000	47,770
1.1	1.5	100L	2H10L833AT000	55,580
1.5	2	112M	2H11M813AT000	64,530
2.2	3	132S	2H13S8B3AT000	85,270

Frames 71 to 132 are available in Aluminium body with Terminal Box position on Top.

Frames 80 to 132 are also available in Cast Iron body with Terminal Box on Top as standard feature. However Terminal Box on LHS or RHS can be offered on request.

Frames 160 and above are in Cast Iron construction with TB on TOP as standard. TB on LHS or RHS can be offered on request.

\* Prices are exclusive of GST, other taxes & levies. GST, other taxes & levies shall be charged extra as applicable at the rate prevailing at the time of dispatch.

## IE2 Series Safe Area VFD Compatible Motors for Variable Torque Application

Foot mounted (B3 construction) 3 Phase Squirrel Cage Induction Motors suitable for 415V, 50Hz, suitable for speed range 10% to 100% Insulation Class F, Degree of Protection IP55, Method of Cooling : Totally Enclosed Fan Cooled, Duty: S1, Ambient Temperature 50° C, Conforms to IS/IEC 60034 & IS: 12615.

3000 rpm 2 Pole : Cast Iron Construction				
KW	HP	Frame	Type	LP44
9.3	12.5	16M	2H16M233CT0V0	1,67,810
11	15	16M	2H16M253CT0V0	1,79,070
15	20	16M	2H16M263CT0V0	1,93,150
22	30	18M	2H18M233CT0V0	2,86,300
30	40	20L	2H20L2A3CT0V0	3,94,570

1500 rpm 4 Pole : Cast Iron Construction				
KW	HP	Frame	Type	LP44
9.3	12.5	160M	2H16M4C3CT0V0	1,66,420
11	15	160M	2H16M4K3CT0V0	1,69,280
15	20	160L	2H16L4T3CT0V0	2,16,370
22	30	180L	2H18L483CT0V0	3,07,440
30	40	200L	2H20L453CT0V0	4,05,850

3000 rpm 2 Pole : Aluminium Construction				
KW	HP	Frame	Type	LP44
0.37	0.5	71	2H0712A3AT0V0	19,960
0.55	0.75	71	2H071233AT0V0	25,630
0.75	1	80	2H080213AT0V0	26,450
1.1	2	80	2H080233AT0V0	28,870
1.5	2	90S	2H09S243AT0V0	33,050
2.2	3	90L	2H09L273AT0V0	42,380
3.7	5	100L	2H10L233AT0V0	52,650
5.5	7.5	132S	2H13S2G3AT0V0	89,530
7.5	10	132S	2H13S2N3AT0V0	97,520

1500 rpm 4 Pole : Aluminium Construction				
KW	HP	Frame	Type	LP44
0.55	0.75	80	2H080433AT0V0	26,520
0.75	1	80	2H080453AT0V0	26,900
1.1	1.5	90S	2H09S423AT0V0	33,150
1.5	2	90L	2H09L473AT0V0	40,310
2.2	3	100L	2H10L473AT0V0	49,410
3.7	5	112M	2H11M473AT0V0	60,630
5.5	7.5	132S	2H13S4K3AT0V0	85,560
7.5	10	132M	2H13M4T3AT0V0	99,810

1000 rpm 6 Pole : Aluminium Construction				
KW	HP	Frame	Type	LP44
0.37	0.5	80	2H080613AT0V0	28,830
0.55	0.75	80	2H080633AT0V0	29,480
0.75	1	90S	2H09S633AT0V0	33,190
1.1	1.5	90L	2H09L653AT0V0	36,840
1.5	2	100L	2H10L633AT0V0	52,590
2.2	3	112M	2H11M653AT0V0	58,600
3.7	5	132S	2H13S6G3AT0V0	87,440
5.5	7.5	132M	2H13M6T3AT0V0	1,07,830

1000 rpm 6 Pole : Cast Iron Construction				
KW	HP	Frame	Type	LP44
7.5	10	160M	2H16M633CT0V0	1,68,500
11	15	160L	2H16L673CT0V0	2,07,270
15	20	180L	2H18L633CT0V0	2,80,750
22	30	200L	2H20L653CT0V0	4,00,460
30	40	225M	2H22M643CT0V0	5,52,700

Frames 71 to 132 are with Aluminium body with Terminal Box position as Top only.  
 Frames 80 to 132 can be offered in Cast Iron construction with Terminal Box on Top as standard. TB on LHS or RHS can be offered on request.  
 Frames 160 and above are in Cast Iron construction with TB on TOP as standard. TB on LHS or RHS can be offered on request.  
 On VFD supply, temperature rise will be class 'B' at load BkW and class 'F' at rated kW.

\*Prices are exclusive of GST, other taxes and levies. GST, other taxes and levies shall be charged extra as applicable at the rate prevailing at the time of dispatch.



## IE3 Series Safe Area 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, Method of Cooling : Totally Enclosed Fan Cooled, Duty: S1, Ambient Temperature 50° C, Conforms to IS/IEC 60034 & IS: 12615.

3000 rpm 2 Pole: Cast Iron Construction				
KW	HP	Frame	Type	LP44
0.75	1.00	80	3H0802B3CT000	28,490
1.10	1.50	80	3H0802E3CT000	31,040
1.50	2.00	90S	3H09S2B3CT000	37,060
2.20	3.00	90L	3H09L2E3CT000	45,660
3.70	5.00	100L	3H10L2B3CT000	62,360
5.50	7.50	132S	3H13S2C3CT000	1,00,800
7.50	10.00	132S	3H13S2H3CT000	1,04,180
9.30	12.50	160M	3H16M2B3CT000	1,61,350
11.00	15.00	160M	3H16M2E3CT000	1,74,630
15.00	20.00	160M	3H16M2H3CT000	1,96,000
18.50	25.00	160L	3H16L2M3CT000	2,47,220
22.00	30.00	180M	3H18M2B3CT000	2,81,160
30.00	40.00	200L	3H20L2B3CT000	4,21,850
37.00	50.00	200L	3H20L2E3CT000	4,95,310
45.00	60.00	225M	3H22M2B3CT000	6,31,710
55.00	75.00	250M	3H25M2E3CT000	8,09,740
75.00	100.00	280S	3H28S2E3CT000	10,96,930
90.00	120.00	280M	3H28M2H3CT000	12,65,890
110.00	150.00	315S	3H31S2E3CT000	15,74,060
132.00	180.00	315L	3H31L2H3CT000	19,54,350
150.00	200.00	315L	3H31L2K3CT000	21,00,070
160.00	215.00	315L	3H31L2M3CT000	21,51,540
180.00	240.00	355L	3H35L2A3CT000	24,30,240
200.00	270.00	355L	3H35L2B3CT000	24,70,370
225.00	335.00	355L	3H35L2C3CT000	27,93,350
250.00	335.00	355L	3H35L2E3CT000	28,95,700
280.00	375.00	355L	3H35L2G3CT000	31,21,280

1500 rpm 4 Pole: Cast Iron Construction				
KW	HP	Frame	Type	LP44
0.55	0.75	80	3H0804B3CT000	28,970
0.75	1.00	80	3H0804E3CT000	30,330
1.10	1.50	90S	3H09S4B3CT000	36,950
1.50	2.00	90L	3H09L4E3CT000	41,830
2.20	3.00	100L	3H10L4B3CT000	53,380
3.70	5.00	112M	3H11M4B3CT000	66,110
5.50	7.50	132S	3H13S4C3CT000	94,070
7.50	10.00	132M	3H13M4H3CT000	1,13,330
9.30	12.50	160M	3H16M4E3CT000	1,73,620
11.00	15.00	160M	3H16M4H3CT000	1,79,530
15.00	20.00	160L	3H16L4M3CT000	2,18,860
18.50	25.00	180M	3H18M4B3CT000	2,69,950
22.00	30.00	180L	3H18L4E3CT000	2,95,380
30.00	40.00	200L	3H20L4B3CT000	4,04,570
37.00	50.00	225S	3H22S4B3CT000	4,82,200
45.00	60.00	225M	3H22M4E3CT000	5,89,370
55.00	75.00	250M	3H25M4B3CT000	7,38,750
75.00	100.00	280S	3H28S4B3CT000X	9,73,390
90.00	120.00	280M	3H28M4H3CT000X	11,34,820
110.00	150.00	315S	3H31S4G3CT000	13,86,740
132.00	180.00	315M	3H31M4K3CT000	15,44,690
160.00	215.00	315L	3H31L4P3CT000	19,99,090
180.00	240.00	315L	3H31L4T3CT000	22,70,240
200.00	270.00	315L	3H31L4W3CT000	24,08,640
225.00	300.00	355L	3H35L4B3CT000	28,43,060
250.00	335.00	355L	3H35L4E3CT000	30,31,980
315.00	422.00	355L	3H35L4H3CT000	34,48,270

3000 rpm 2 Pole: Aluminium Construction				
KW	HP	Frame	Type	LP44
0.12	0.16	56	3H056235AT000	17,010
0.18	0.24	63	3H063213AT000	18,720
0.25	0.33	63	3H063233AT000	19,710
0.37	0.5	71	3H071233AT000	21,290
0.55	0.75	71	3H071253AT000	26,820
0.75	1.00	80	3H0802B3AT000	27,710
1.10	1.50	80	3H0802E3AT000	31,040
1.50	2.00	90S	3H09S2B3AT000	36,100
2.20	3.00	90L	3H09L2E3AT000	45,660
3.70	5.00	100L	3H10L2B3AT000	58,040
5.50	7.50	132S	3H13S2C3AT000	1,00,800
7.50	10.00	132S	3H13S2H3AT000	1,04,180

1500 rpm 4 Pole: Aluminium Construction				
KW	HP	Frame	Type	LP44
0.12	0.16	63	3H063433AT000	18,930
0.18	0.25	63	3H063453AT000	19,120
0.25	0.33	71	3H071453AT000	19,580
0.37	0.5	71	3H071463AT000	21,880
0.55	0.75	80	3H0804B3AT000	28,440
0.75	1.00	80	3H0804E3AT000	29,180
1.10	1.50	90S	3H09S4B3AT000	35,220
1.50	2.00	90L	3H09L4E3AT000	41,830
2.20	3.00	100L	3H10L4B3AT000	51,060
3.70	5.00	112M	3H11M4B3AT000	64,930
5.50	7.50	132S	3H13S4C3AT000	90,510
7.50	10.00	132M	3H13M4H3AT000	1,08,270

Frame 56 is available only in Aluminium body with flange mounting arrangement.

Frames 63 to 132 are available in Aluminium body with Terminal Box position on Top.

Frames 80 to 132 are also available in Cast Iron body with Terminal Box on Top as standard feature. However Terminal Box on LHS or RHS can be offered on request.

Frames 160 and above are in Cast Iron construction with TB on TOP as standard. TB on LHS or RHS can be offered on request.

IE3 safe area motors range comes with inverter grade winding and 6 leads.

Prices are exclusive of GST, other taxes and levies. GST, other taxes and levies shall be charged extra as applicable at the rate prevailing at the time of dispatch.

## IE3 Series Safe Area 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, Method of Cooling : Totally Enclosed Fan Cooled, Duty: S1, Ambient Temperature 50° C, Conforms to IS/IEC 60034 & IS: 12615.

1000 rpm 6 Pole: Cast Iron Construction				
KW	HP	Frame	Type	LP44
0.37	0.50	80	3H0806B3CT000	31,820
0.55	0.75	80	3H0806E3CT000	33,350
0.75	1.00	90S	3H09S6B3CT000	38,970
1.10	1.50	90L	3H09L6E3CT000	43,030
1.50	2.00	100L	3H10L6B3CT000	64,250
2.20	3.00	112M	3H11M6B3CT000	69,060
3.70	5.00	132S	3H13S6C3CT000	1,00,890
5.50	7.50	132M	3H13M6H3CT000	1,25,140
7.50	10.00	160M	3H16M6B3CT000	1,76,820
9.30	12.50	160L	3H16L6E3CT000	1,92,660
11.00	15.00	160L	3H16L6H3CT000	2,17,590
15.00	20.00	180L	3H18L6B3CT000	3,04,640
18.50	25.00	200L	3H20L6B3CT000	3,80,820
22.00	30.00	200L	3H20L6E3CT000	4,18,580
30.00	40.00	225M	3H22M6B3CT000	5,85,200
37.00	50.00	250M	3H25M6B3CT000	7,51,360
45.00	60.00	280S	3H28S6B3CT000	9,83,690
55.00	75.00	280M	3H28M6E3CT000	11,29,390
75.00	100.00	315S	3H31S6B3CT000	12,67,850
90.00	120.00	315M	3H31M6E3CT000	15,85,560
110.00	150.00	315M	3H31M6H3CT000	17,50,410
132.00	180.00	315L	3H31L6M3CT000	21,09,350
160.00	215.00	355L	3H35L6B3CT000	24,03,080
180.00	240.00	355L	3H35L6C3CT000	29,60,660
200.00	270.00	355L	3H35L6E3CT000	31,56,430
250.00	335.00	355L	3H35L643CT000	33,96,460

750 rpm 8 Pole: Cast Iron Construction				
KW	HP	Frame	Type	LP44
0.18	0.25	80	3H080813CT000	34,300
0.25	0.33	80	3H080833CT000	37,450
0.37	0.5	90S	3H09S853CT000	39,890
0.55	0.75	90L	3H09L863CT000	43,700
0.75	1	100L	3H10L833CT000	53,740
1.10	1.5	100L	3H10L853CT000	65,300
1.50	2	112M	3H11M833CT000	75,570
2.20	3	132S	3H13S8B3CT000	1,00,070
3.70	5	160M	3H16M823CT000	1,55,620
5.50	7.5	160M	3H16M843CT000	2,30,890
7.50	10	160L	3H16L883CT000	2,46,500
9.30	12.5	180M	3H18M873CT000	3,20,170
11.00	15	180L	3H18L893CT000	3,37,660
15.00	20	200L	3H20L853CT000	4,60,310
18.50	25	225S	3H22S823CT000	5,90,460
22.00	30	225M	3H22M833CT000	7,09,860
30.00	40	250M	3H25M813CT000	9,58,460
37.00	50	280S	3H28S823CT000	13,03,330
45.00	60	280M	3H28M853CT000	14,00,220
55.00	75	315S	3H31S813CT000	14,74,140
75.00	100	315M	3H31M833CT000	18,30,380
90.00	120	315M	3H31M853CT000	24,78,470
110.00	150	315L	3H31L873CT000	26,23,870
125.00	170	315L	3H31L8A3CT000	28,82,770
132.00	180	315L	3H31L893CT000	30,39,910

1000 rpm 6 Pole: Aluminium Construction				
KW	HP	Frame	Type	LP44
0.18	0.25	71	3H071633AT000	28,430
0.25	0.33	71	3H071653AT000	28,750
0.37	0.50	80	3H0806B3AT000	30,580
0.55	0.75	80	3H0806E3AT000	31,470
0.75	1.00	90S	3H09S6B3AT000	35,960
1.10	1.50	90L	3H09L6E3AT000	40,080
1.50	2.00	100L	3H10L6B3AT000	59,760
2.20	3.00	112M	3H11M6B3AT000	64,920
3.70	5.00	132S	3H13S6C3AT000	95,960
5.50	7.50	132M	3H13M6H3AT000	1,15,130

750 rpm 8 Pole: Aluminium Construction				
KW	HP	Frame	Type	LP44
0.12	0.16	71	3H071833AT000	25,250
0.18	0.25	80	3H080813AT000	34,300
0.25	0.33	80	3H080833AT000	37,450
0.37	0.5	90S	3H09S853AT000	39,890
0.55	0.75	90L	3H09L863AT000	43,700
0.75	1	100L	3H10L833AT000	53,740
1.10	1.5	100L	3H10L853AT000	65,300
1.50	2	112M	3H11M833AT000	75,570
2.20	3	132S	3H13S8B3AT000	1,00,070

Frames 71 to 132 are available in Aluminium body with Terminal Box position on Top.

Frames 80 to 132 are also available in Cast Iron body with Terminal Box on Top as standard feature. However Terminal Box on LHS or RHS can be offered on request.

Frames 160 and above are in Cast Iron construction with TB on TOP as standard. TB on LHS or RHS can be offered on request.

This IE3 safe area motors range comes with inverter grade winding and 6 leads.

\*Prices are exclusive of GST, other taxes and levies. GST, other taxes and levies shall be charged extra as applicable at the rate prevailing at the time of dispatch.

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## Hazardous Area Motors Range

Safety First, Always | Reliable | Long Lasting



A MOTOR FOR EVERY NEED

## FLP Motors : Standard Range

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, Method of Cooling : Totally Enclosed Fan Cooled, Conforms to IS/IEC 60034-1, IS/IEC 60079-1, Gas Group IIA, IIB.

3000 rpm, 2 Pole				
KW	HP	Frame	Type	LP44
0.37	0.50	80	MD0802A300000	45,720
0.55	0.75	80	MD0802B300000	50,150
0.75	1.00	80	MD08021300000	51,670
1.1	1.50	80	MD08023300000	60,400
1.5	2.00	90L	MD09L23300000	63,020
2.2	3.00	90L	MD09L25300000	80,690
3.7	5.00	100L	MD10L21300000	1,07,640
5.5	7.50	132S	MD13S2B300000	1,52,090
7.5	10.00	132S	MD13S2E300000	1,68,060
9.3	12.50	132M	MD13M2N300000	3,04,060
11	15.00	160M	MD16M21300000	3,07,380
15	20.00	160M	MD16M25300000	3,37,340
18.5	25.00	160L	MD16L27300000	3,80,270
22	30.00	180L	MD18L21300000	4,57,260
30	40.00	200L	MD20L23300000	6,06,380
37	50.00	200L	MD20L25300000	7,86,770
45	60.00	225M	MD22M23300000	9,98,600
55	75.00	250M	MD25M21300000	12,94,770
75	100.00	280S	MD28S21300000	15,92,930
90	120.00	280M	MD28M23300000	16,98,720

1500 rpm, 4 Pole				
KW	HP	Frame	Type	LP44
0.37	0.50	80	MD0804A300000	44,910
0.55	0.75	80	MD08041300000	48,640
0.75	1.00	80	MD08043300000	50,570
1.1	1.50	90L	MD09L43300000	62,900
1.5	2.00	90L	MD09L45300000	66,870
2.2	3.00	100L	MD10L43300000	85,090
3.7	5.00	112M	MD11M43300000	1,05,590
5.5	7.50	132M	MD13S4B300000	1,45,150
7.5	10.00	132M	MD13M4K300000	1,65,490
9.3	12.50	160M	MD16M4A300000	2,62,490
11	15.00	160M	MD16M4C300000	2,64,340
15	20.00	160L	MD16L4K300000	3,18,440
18.5	25.00	180L	MD18L43300000	3,66,300
22	30.00	180L	MD18L47300000	4,35,460
30	40.00	200L	MD20L43300000	5,76,580
37	50.00	225S	MD22S41300000	7,17,080
45	60.00	225M	MD22M43300000	9,08,340
55	75.00	250M	MD25M41300000	11,79,330
75	100.00	280S	MD28S41300000	14,44,330
90	120.00	280M	MD28M43300000	14,74,070

1000 rpm 6 Pole				
KW	HP	Frame	Type	LP44
0.37	0.50	80	MD08061300000	51,220
0.55	0.75	80	MD08063300000	55,210
0.75	1.00	90L	MD09L63300000	64,090
1.10	1.50	90L	MD09L65300000	67,260
1.50	2.00	100L	MD10L63300000	95,440
2.20	3.00	112M	MD11M63300000	1,10,920
3.70	5.00	132S	MD13S6B300000	1,46,950
5.50	7.50	132M	MD13M6N300000	1,78,100
7.50	10.00	160M	MD16M63300000	2,82,800
9.30	12.50	160L	MD16L66300000	3,17,220
11.00	15.00	160L	MD16L67300000	3,30,290
15.00	20.00	180L	MD18L61300000	4,41,610
18.50	25.00	200L	MD20L61300000	5,51,300
22.00	30.00	200L	MD20L63300000	5,98,030
30.00	40.00	225M	MD22M62300000	9,34,820
37.00	50.00	250M	MD25M60300000	12,16,780
45.00	60.00	280S	MD28S61300000	14,13,170
55.00	75.00	280M	MD28M63300000	15,24,250

750 rpm 8 Pole				
KW	HP	Frame	Type	LP44
0.37	0.50	90L	MD09L83300000	61,500
0.55	0.75	90L	MD09L85300000	66,580
0.75	1.00	100L	MD10L81300000	80,540
1.10	1.50	100L	MD10L83300000	93,510
1.50	2.00	112M	MD11M81300000	1,12,300
2.20	3.00	132S	MD13S8B300000	1,48,590
3.70	5.00	160M	MD16M81300000	2,40,170
5.50	7.50	160M	MD16M83300000	2,81,910
7.50	10.00	160L	MD16L87300000	3,43,730
9.30	12.50	180L	MD18L81300000	4,37,500
11.00	15.00	180L	MD18L83300000	4,77,710
15.00	20.00	200L	MD20L83300000	6,22,970
18.50	25.00	225S	MD22S81300000	7,73,380
22.00	30.00	225M	MD22M83300000	10,17,880
30.00	40.00	250M	MD25M81300000	12,50,110
37.00	50.00	280S	MD28S82300000	16,04,230
45.00	60.00	280M	MD28M85300000	16,37,990

All motors are with Terminal Box position on Top as standard feature

On request frames 112 & 132 can be offered with Terminal Box on RHS.

On request frames 160 to 280 can be offered with Terminal Box on RHS / LHS.

Higher ratings can be offered in IE2 and IE3 series

\* Prices are exclusive of GST, other taxes & levies. GST, other taxes & levies shall be charged extra as applicable at the rate prevailing at the time of dispatch.

## FLP Motors : Efficiency Values Complying to IE2 Class

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, Method of Cooling : Totally Enclosed Fan Cooled, Conforms to IS/IEC 60034-1, IS/IEC 60079-1, Gas Group IIA, IIB.

3000 rpm, 2 Pole				
KW	HP	Frame	Type	LP44
0.37	0.5	80	2J0802A300000	47,090
0.55	0.75	80	2J0802B300000	52,660
0.75	1	80	2J08021300000	54,250
1.1	1.5	80	2J08023300000	63,420
1.5	2	90L	2J09L24300000	64,910
2.2	3	90L	2J09L27300000	84,720
3.7	5	100L	2J10L23300000	1,13,020
5.5	7.5	132S	2J13S2G300000	1,59,690
7.5	10	132S	2J13S2N300000	1,76,460
9.3	12.5	160M	2J16M23300000	3,19,260
11	15	160M	2J16M25300000	3,22,750
15	20	160M	2J16M26300000	3,54,210
18.5	25	160L	2J16L29300000	3,99,280
22	30	180L	2J18L23300000	4,80,120
30	40	200L	2J20L2A300000	6,36,700
37	50	200L	2J20L25300000	8,26,110
45	60	225M	2J22M25300000	10,48,530
55	75	250M	2J25M23300000	13,59,510
75	100	280M	2J28M23300000	16,72,580
90	120	280M	2J28M25300000	17,83,660
110	150	315S	2J31S23300000	19,75,230
125	170	315M	2J31M2A300000	23,09,600
132	180	315M	2J31M23300000	23,44,230
150	200	315L	2J31L2A300000	25,45,400
160	215	315L	2J31L25300000	26,57,770
180	240	315L	2J31L2B300000	31,86,480

1500 rpm, 4 Pole				
KW	HP	Frame	Type	LP44
0.37	0.5	80	2J08041300000	46,260
0.55	0.75	80	2J08043300000	51,070
0.75	1	80	2J08045300000	53,100
1.1	1.5	90L	2J09L42300000	64,790
1.5	2	90L	2J09L47300000	68,880
2.2	3	100L	2J10L47300000	87,640
3.7	5	112M	2J11M47300000	1,10,870
5.5	7.5	132S	2J13S4K300000	1,52,410
7.5	10	132M	2J13M4T300000	1,73,760
9.3	12.5	160M	2J16M4C300000	2,75,610
11	15	160M	2J16M4K300000	2,77,560
15	20	160L	2J16L4T300000	3,34,360
18.5	25	180L	2J18L47300000	3,84,620
22	30	180L	2J18L48300000	4,57,230
30	40	200L	2J20L45300000	6,05,410
37	50	225S	2J22S43300000	7,52,930
45	60	225M	2J22M45300000	9,53,760
55	75	250M	2J25M43300000	12,38,300
75	100	280S	2J28S42300000	15,16,550
90	120	280M	2J28M45300000	15,47,770
110	150	315S	2J31S41300000	18,20,070
125	170	315M	2J31M4A300000	20,25,690
132	180	315M	2J31M43300000	22,06,120
150	200	315L	2J31L4A300000	23,05,450
160	215	315L	2J31L45300000	23,38,030
180	240	315L	2J31L46300000	27,72,940
200#	270	315L	2J31L47300000	31,58,180

**New : Introducing Flameproof motors in 355 frame suitable for gas group IIA, IIB & IIC**

3000 rpm, 2 Pole				
KW	HP	Frame	Type	LP44
200	270	355L	2J35L2L300000	Refer Sales Office
225	300	355L	2J35L2M300000	
250	335	355L	2J35L22300000	
280	375	355L	2J35L23300000	

1500 rpm, 4 Pole				
KW	HP	Frame	Type	LP44
200	270	355L	3J35L4A300000	Refer Sales Office
225	300	355L	3J35L4B300000	
250	335	355L	3J35L4E300000	
280	375	355L	3J35L4C300000	

All motors are with Terminal Box position on top as a standard feature  
 On request frames 112 & 132 can be offered with Terminal Box on RHS.  
 On request frames 160 to 355 can be offered with Terminal Box on RHS / LHS.  
 # This rating is suitable for Ambient Temperature 40° C.

\* Prices are exclusive of GST, other taxes & levies. GST, other taxes & levies shall be charged extra as applicable at the rate prevailing at the time of dispatch.

## FLP Motors : Efficiency Values Complying to IE2 Class

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, Method of Cooling : Totally Enclosed Fan Cooled, Conforms to IS/IEC 60034-1, IS/IEC 60079-1, Gas Group IIA, IIB.

1000 rpm 6 Pole				
KW	HP	Frame	Type	LP44
0.37	0.5	80	2J08061300000	53,780
0.55	0.75	80	2J08063300000	57,970
0.75	1	90L	2J09L633000000	67,290
1.1	1.5	90L	2J09L653000000	69,280
1.5	2	100L	2J10L633000000	1,00,210
2.2	3	112M	2J11M653000000	1,16,470
3.7	5	132S	2J13S6G3000000	1,54,300
5.5	7.5	132M	2J13M6T3000000	1,87,000
7.5	10	160M	2J16M633000000	2,96,940
9.3	12.5	160L	2J16L663000000	3,33,080
11	15	160L	2J16L673000000	3,46,800
15	20	180L	2J18L633000000	4,63,690
18.5	25	200L	2J20L633000000	5,78,870
22	30	200L	2J20L653000000	6,27,930
30	40	225M	2J22M643000000	9,81,560
37	50	250M	2J25M633000000	12,77,620
45	60	280S	2J28S613000000	14,83,830
55	75	280M	2J28M633000000	16,00,460
75	100	315S	2J31S613000000	18,50,940
90	120	315M	2J31M633000000	21,70,480
110	150	315M	2J31M653000000	23,79,600
125	170	315L	2J31L6A3000000	27,06,060
132	180	315L	2J31L673000000	28,84,450
150	200	315L	2J31L6B3000000	30,18,960
160	215	315L	2J31L693000000	34,76,960

750 RPM, 8 Pole				
KW	HP	Frame	Type	LP44
0.37	0.5	90L	2J09L833000000	64,580
0.55	0.75	90L	2J09L853000000	69,910
0.75	1	100L	2J10L813000000	84,570
1.1	1.5	100L	2J10L833000000	98,190
1.5	2	112M	2J11M813000000	1,17,920
2.2	3	132S	2J13S8B3000000	1,56,020
3.7	5	160M	2J16M813000000	2,52,180
5.5	7.5	160M	2J16M833000000	2,96,010
7.5	10	160L	2J16L863000000	3,60,920
9.3	12.5	180L	2J18L833000000	4,59,380
15	20	200L	2J20L843000000	6,54,120
18.5	25	225S	2J22S823000000	8,12,050
22	30	225M	2J22M833000000	10,68,770
30	40	250M	2J25M813000000	13,12,620
37	50	280S	2J28S823000000	16,84,440
45	60	280M	2J28M853000000	17,19,890
55	75	315S	2J31S813000000	20,89,210
75	100	315M	2J31M833000000	24,46,920
90	120	315M	2J31M853000000	26,78,350
110	150	315L	2J31L873000000	31,32,330
125	170	315L	2J31L8A3000000	35,31,500
132	180	315L	2J31L893000000	35,37,560

**New : Introducing Flameproof motors in 355 frame suitable for gas group IIA, IIB & IIC**

1000 rpm 6 Pole				
KW	HP	Frame	Type	LP44
160	215	355L	2J35L6B3000000	Refer Sales Office
180	240	355L	2J35L6A3000000	
200	270	355L	2J35L613000000	
250	335	355L	2J35L633000000	

750 RPM, 8 Pole				
KW	HP	Frame	Type	LP44
132	180	355L	2J35L803000000	Refer Sales Office
160	215	355L	2J35L813000000	
180	240	355L	2J35L8A3000000	

All motors are with Terminal Box position on top as a standard feature  
 On request frames 112 & 132 can be offered with Terminal Box on RHS.  
 On request frames 160 to 355 can be offered with Terminal Box on RHS / LHS.

\* Prices are exclusive of GST, other taxes & levies. GST, other taxes & levies shall be charged extra as applicable at the rate prevailing at the time of dispatch.



## FLP Motors : Efficiency Values Complying to IE3 Class

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, Method of Cooling : Totally Enclosed Fan Cooled, Conforms to IS/IEC 60034-1, IS/IEC 60079-1, Gas Group IIA, IIB.

3000 RPM, 2 Pole				
KW	HP	Frame	Type	LP44
0.37	0.5	80	3J0802A300000	50,330
0.55	0.75	80	3J08021300000	55,820
0.75	1	80	3J0802B300000	57,250
1.1	1.5	80	3J0802E300000	66,940
1.5	2	90L	3J09L2B300000	69,320
2.2	3	90L	3J09L2E300000	89,750
3.7	5	100L	3J10L2B300000	1,18,230
5.5	7.5	132S	3J13S2C300000	1,69,030
7.5	10	132S	3J13S2H300000	1,86,950
9.3	12.5	160M	3J16M2B300000	3,31,140
11	15	160M	3J16M2E300000	3,32,200
15	20	160M	3J16M2H300000	3,71,790
18.5	25	160L	3J16L2M300000	4,22,470
22	30	180M	3J18M2B300000	4,97,240
30	40	200L	3J20L2B300000	7,03,560
37	50	200L	3J20L2E300000	8,71,000
45	60	225M	3J22M2B300000	11,05,550
55	75	250M	3J25M2E300000	14,09,700
75	100	280S	3J28S2E300000	17,47,060
90	120	280M	3J28M2H300000	18,70,740
110	150	315S	3J31S2E300000	20,92,970
132	180	315L	3J31L2H300000	26,05,180
160	215	315L	3J31L2M300000	29,46,340

1500 RPM, 4 Pole				
KW	HP	Frame	Type	LP44
0.37	0.5	80	3J08043300000	49,570
0.55	0.75	80	3J0804B300000	54,410
0.75	1	80	3J0804E300000	56,580
1.1	1.5	90L	3J09L4B300000	68,670
1.5	2	90L	3J09L4E300000	73,680
2.2	3	100L	3J10L4B300000	93,560
3.7	5	112M	3J11M4B300000	1,18,570
5.5	7.5	132S	3J13S4C300000	1,61,510
7.5	10	132M	3J13M4H300000	1,84,050
9.3	12.5	160M	3J16M4E300000	2,86,420
11	15	160M	3J16M4H300000	2,91,320
15	20	160L	3J16L4M300000	3,53,470
18.5	25	180M	3J18M4B300000	4,02,250
22	30	180L	3J18L4E300000	4,78,100
30	40	200L	3J20L4B300000	6,38,670
37	50	225S	3J22S4B300000	8,32,490
45	60	225M	3J22M4E300000	10,51,220
55	75	250M	3J25M4B300000	12,93,850
75	100	280S	3J28S4B300000	15,72,150
90	120	280M	3J28M4H300000	16,14,680
110	150	315S	3J31S4G300000	19,94,270
132	180	315L	3J31L4K300000	24,59,770
160	215	315L	3J31L4P300000	24,72,000
180	240	315L	3J31L4T300000	29,32,550

**New : Introducing Flameproof motors in 355 frame suitable for gas group IIA, IIB & IIC**

3000 RPM, 2 Pole				
KW	HP	Frame	Type	LP44
200	270	355L	3J35L2L300000	Refer Sales Office
225	300	355L	3J35L2C300000	
250	335	355L	3J35L2E300000	
280	375	355L	3J35L2G300000	

1500 RPM, 4 Pole				
KW	HP	Frame	Type	LP44
200	270	355L	3J35L4A300000	Refer Sales Office
225	300	355L	3J35L4B300000	
250	335	355L	3J35L4E300000	
280	375	355L	3J35L4C300000	

All motors are with Terminal Box position on top as a standard feature  
 On request frames 112 & 132 can be offered with Terminal Box on RHS.  
 On request frames 160 to 355 can be offered with Terminal Box on RHS / LHS.

\* Prices are exclusive of GST, other taxes & levies. GST, other taxes & levies shall be charged extra as applicable at the rate prevailing at the time of dispatch.

## FLP Motors : Efficiency Values Complying to IE3 Class

Foot mounted (B3 construction) 3 Phase Squirrel Cage Induction Motor, 415V ±10%, 50Hz ±5%, Combined Variation ±10%, Insulation Class F with temperature rise limited to Class B, Degree of Protection IP55, Duty S1, Ambient Temperature 45° C, Method of Cooling : Totally Enclosed Fan Cooled, Conforms to IS/IEC 60034-1, IS/IEC 60079-1, Gas Group IIA, IIB.

1000 RPM, 6 Pole				
KW	HP	Frame	Type	LP44
0.37	0.5	80	3J0806B300000	56,680
0.55	0.75	80	3J0806E300000	59,400
0.75	1	90L	3J09L6B300000	70,560
1.1	1.5	90L	3J09L6E300000	73,930
1.5	2	100L	3J10L6B300000	1,06,040
2.2	3	112M	3J11M6B300000	1,22,310
3.7	5	132S	3J13S6C300000	1,63,280
5.5	7.5	132M	3J13M6H300000	1,98,020
7.5	10	160M	3J16M6B300000	3,07,880
9.3	12.5	160L	3J16L6E300000	3,50,720
11	15	160L	3J16L6H300000	3,66,810
15	20	180L	3J18L6B300000	4,83,010
18.5	25	200L	3J20L6B300000	6,02,730
22	30	200L	3J20L6E300000	6,53,930
30	40	225M	3J22M6B300000	10,34,150
37	50	250M	3J25M6B300000	13,34,400
45	60	280S	3J28S6B300000	15,49,640
55	75	280M	3J28M6E300000	16,70,030
75	100	315S	3J31S6B300000	19,63,850
90	120	315M	3J31M6E300000	22,81,800
110	150	315M	3J31M6H300000	25,36,240
132	180	315L	3J31L6M300000	30,48,590
160	215	315L	3J31L6P300000	38,73,220

750 RPM, 8 Pole				
KW	HP	Frame	Type	LP44
0.18	0.25	80	3J08081300000	58,320
0.25	0.33	80	3J08083300000	62,990
0.37	0.5	90L	3J09L85300000	81,270
0.55	0.75	90L	3J09L86300000	83,450
0.75	1	100L	3J10L83300000	1,03,690
1.1	1.5	100L	3J10L85300000	1,07,480
1.5	2	112M	3J11M83300000	1,27,850
2.2	3	132S	3J13S8B300000	1,69,770
3.7	5	160M	3J16M82300000	2,72,350
5.5	7.5	160M	3J16M84300000	3,32,600
7.5	10	160L	3J16L88300000	3,83,000
9.3	13	180M	3J18M87300000	5,02,870
11.0	15	180L	3J18L89300000	5,29,700
15.0	20	200L	3J20L85300000	7,01,010
18.5	25	225S	3J22S82300000	8,75,040
22.0	30	225M	3J22M83300000	11,89,730
30.0	40	250M	3J25M81300000	14,14,800
55.0	75	315S	3J31S81300000	23,60,810
75.0	100	315M	3J31M83300000	25,93,730
90.0	120	315M	3J31M85300000	30,26,530
110.0	150	315L	3J31L87300000	35,39,530
125.0	170	315L	3J31L8A300000	39,90,590
132.0	180	315L	3J31L89300000	39,97,430

**New : Introducing Flameproof motors in 355 frame suitable for gas group IIA, IIB & IIC**

1000 RPM, 6 Pole				
KW	HP	Frame	Type	LP44
160	215	355L	3J35L6B300000	Refer Sales Office
180	240	355L	3J35L6C300000	
200	270	355L	3J35L6E300000	
250	335	355L	3J35L64300000	

750 RPM, 8 Pole				
KW	HP	Frame	Type	LP44
132	180	355L	3J35L81300000	Refer Sales Office
160	215	355L	3J35L8B300000	
180	240	355L	3J35L8C300000	

All motors are with Terminal Box position on top as a standard feature  
 On request frames 112 & 132 can be offered with Terminal Box on RHS.  
 On request frames 160 to 355 can be offered with Terminal Box on RHS / LHS.



\* Prices are exclusive of GST, other taxes & levies. GST, other taxes & levies shall be charged extra as applicable at the rate prevailing at the time of dispatch.

## Fire Fighting Series

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 F, Degree of Protection IP55, Method of Cooling : Totally Enclosed Fan Cooled, Duty: S1, Ambient Temperature 50° C, Paint Shade RAL 3001 (RED)

3000 rpm 2 Pole: Cast Iron Construction				
KW	HP	Frame	Type	LP44
5.5	7.5	112M	2L11M233CT000	77,040
7.5	10	132S	2L13S2G3CT000	94,520
9.3	12.5	132S	2L13S2H3CT000	1,36,040
11	15	132S	2L13S2A3CT000	1,52,840
15	20	160M	2L16M253CT000	1,77,180
18.5	25	160M	2L16M263CT000	2,14,000
22	30	160L	2L16L293CT000	2,41,050
30	40	180M	2L18M2B3CT000	3,19,320
37	50	200L	2L20L2A3CT000	4,32,890
45	60	200L	2L20L2E3CT000	5,13,600
55	75	225M	2L22M253CT000	6,47,530
75	100	250M	2L25M233CT000	7,92,690
90	120	280S	2L28S233CT000	10,36,800
110	150	280M	2L28M253CT000	13,75,000

**Note :** These motors are for Fire Fighting Pump Application only.



\*Prices are exclusive of GST, other taxes & levies. GST, other taxes & levies shall be charged extra as applicable at the rate prevailing at the time of dispatch.

## Crane & Hoist Duty 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, Method of Cooling : Totally Enclosed Fan Cooled, S4 Duty , 40% CDF, 150 Starts / Stops per hour, conforms to IS/IEC 60034

1500 rpm, 4 Pole : Cast Iron Construction				
KW	HP	Frame	Type	LP44
11.00	15.00	160M	MC16M4A300000	1,34,330
15.00	20.00	160M	MC16M4F300000	1,46,490
18.50	25.00	160L	MC16L4P300000	1,61,240
22.00	30.00	180L	MC18L47300000	2,25,820
30.00	40.00	200L	MC20L43300000	3,06,720
37.00	50.00	225S	MC22S41300000	3,78,100
45.00	60.00	225M	MC22M43300000	5,09,620
55.00	75.00	250M	MC25M41300000	6,98,280
75.00	100.00	280S	MC28S41300000	8,60,690
90.00	120.00	280M	MC28M43300000	9,60,210
110.00	150.00	315S	MC31S41300000	12,93,740
132.00	160.00	315M	MC31M43300000	14,32,670
160.00	215.00	315L	MC31L45300000	17,15,490
180.00	250.00	315L	MC31L46300000	18,09,110
200.00	270.00	315L	MC31L47300000	18,42,220

1000 rpm 6 Pole : Cast Iron Construction				
KW	HP	Frame	Type	LP44
9.30	12.50	160M	MC16M63300000	1,34,630
11.00	15.00	160L	MC16L63300000	1,66,790
13.00	17.50	160L	MC16L67300000	1,89,130
17.00	23.00	180L	MC18L63300000	2,73,620
22.00	30.00	200L	MC20L63300000	3,18,040
30.00	40.00	225M	MC22M62300000	4,46,850
37.00	50.00	250M	MC25M60300000	6,45,380
45.00	60.00	280S	MC28S61300000	8,22,310
52.00	70.00	280M	MC28M63300000	9,32,860
70.00	95.00	315S	MC31S61300000	11,68,150
85.00	115.00	315M	MC31M63300000	14,41,660
102.00	135.00	315M	MC31M65300000	16,05,920
125.00	167.00	315L	MC31L67300000	18,65,720
150.00	200.00	315L	MC31L69300000	19,79,810

1500 rpm, 4 Pole : Aluminium Construction				
KW	HP	Frame	Type	LP44
0.55	0.75	71	MC07143300000	22,420
0.75	1.00	80	MC08041300000	24,920
1.10	1.50	80	MC08043300000	26,130
1.50	2.00	90S	MC09S43300000	27,500
2.20	3.00	90L	MC09L45300000	30,100
3.70	5.00	100L	MC10L45300000	40,220
5.50	7.50	112M	MC11M45300000	50,660
7.50	10.00	132S	MC13S46300000	72,420
9.30	12.50	132M	MC13M4P300000	86,360

1000 rpm 6 Pole : Aluminium Construction				
KW	HP	Frame	Type	LP44
0.37	0.50	71	MC07163300000	22,480
0.55	0.75	80	MC08061300000	26,550
0.75	1.00	80	MC08063300000	27,540
1.10	1.50	90L	MC09L6A300000	28,590
1.50	2.00	90L	MC09L65300000	32,610
2.20	3.00	100L	MC10L65300000	42,820
3.70	5.00	112M	MC11M65300000	51,050
5.50	7.50	132S	MC13S6G300000	74,100
7.50	10.00	132M	MC13M6T300000	85,910

750 rpm 8 Pole : Cast Iron Construction				
KW	HP	Frame	Type	LP44
5.5	7.5	160M	MC16M83300000	1,41,290
7.5	10	160L	MC16L87300000	1,81,220
9.3	12.5	180M	MC18M81300000	2,16,770
11	15	180L	MC18L83300000	2,55,170
15	20	200L	MC20L83300000	3,43,140
18.5	25	225S	MC22S81300000	4,36,040
22	30	225M	MC22M83300000	5,26,300
30	40	250M	MC25M81300000	7,07,730
37	50	280S	MC28S82300000	9,04,540
45	60	280M	MC28M85300000	10,01,710
55	75	315S	MC31S81300000	13,01,860
75	100	315M	MC31M83300000	15,08,610
90	120	315M	MC31M85300000	16,94,950
110	150	315L	MC31L87300000	18,74,980
132	180	315L	MC31L89300000	21,95,910

750 rpm 8 Pole : Aluminium Construction				
KW	HP	Frame	Type	LP44
0.55	0.75	90S	MC09S81300000	29,110
0.75	1	90L	MC09L85300000	32,840
1.1	1.5	100L	MC10L81300000	39,540
1.5	2	100L	MC10L83300000	40,690
2.2	3	112M	MC11M83300000	58,420
3.7	5	132S	MC13S8G300000	91,990



Frames 71 to 132 are available with Aluminium body & Terminal Box on Top as standard feature.

Frames 90 to 132 can also be offered in Cast Iron body with Terminal Box position on Top / RHS / LHS.

Frame 160 is with Cast Iron Body & Terminal Box position on Top.

Frames 180 to 225 are with Cast Iron body & Terminal Box position on RHS. On request terminal box can be given on Top / LHS position.

Frames 250 and above are with Cast Iron body & Terminal Box position on Top. On request terminal box can be given with RHS / LHS position.

\* Prices are exclusive of GST, other taxes & levies. GST, other taxes & levies shall be charged extra as applicable at the rate prevailing at the time of dispatch.

## Crane Duty Slip Ring Motors

B3 construction, 3 Phase Slipring Induction Motor, 415V±10%, 50Hz ±5% Combined Variation ±10%,  
 Insulation for Stator/Rotor: class F/F, Degree of Protection IP55, Ambient Temperature 45° C,  
 Method of Cooling: Totally Enclosed Fan Cooled, S4 Duty, 40% CDF, 60 Starts / Stops per hour, conforms to  
 IS/IEC 60034

1000 rpm 6 Pole				
KW	HP	Frame	Type	LP44
1.10	1.50	100L	MP10L61300000	1,16,590
1.50	2.00	100L	MP10L62300000	1,23,170
2.40	3.20	112M	MP11M62300000	1,34,510
3.30	4.40	112M	MP11M64300000	1,38,580
4.00	5.30	132M	MP13M61300000	1,80,020
5.50	7.50	132M	MP13M66300000	2,15,610
7.00	9.40	160L	MP16L61300000	2,44,040
10.00	13.40	160L	MP16L65300000	2,96,640

All Slip Ring motors are with Cast Iron construction & Terminal Box position on Top.

\* Prices are exclusive of GST & other taxes & levies. GST, other taxes & levies shall be charged extra as applicable prevailing at the time of dispatch.

## Standard Integral Brake Motors

B3 construction, 3 Phase Integral Brake Motor, Suitable for mains supply 415V±10%, 50Hz ±5% Combined Variation ±10%,  
 Brake Type : Failsafe, Normally ON, Input to brake will be 190VDC, Insulation class F with rise limited to F, Degree of Protection IP55,  
 Ambient Temperature 50° C, Method of Cooling : Totally Enclosed Fan Cooled, S4 Duty, 40% CDF, 60 Starts / Stops per hour, conforms to IS/IEC 60034

1500 RPM, 4 Pole				
KW	HP	Frame	Type	LP44
0.55	0.75	71	MB07143300001	26,960
0.75	1.00	70	MB08041300001	34,610
1.10	1.50	80	MB08043300001	35,030
1.50	2.00	90S	MB09S43300001	42,560
2.20	3.00	90L	MB09L45300001	46,140
3.70	5.00	100L	MB10L45300001	64,880
5.50	7.50	112M	MB11M45300001	74,890
7.50	10.00	132S	MB13S4G300001	1,01,130
9.30	12.50	132M	MB13M4P300001	1,13,550

1000 RPM, 6 Pole				
KW	HP	Frame	Type	LP44
0.37	0.50	71	MB07163300001	29,140
0.55	0.75	80	MB08061300001	35,770
0.75	1.00	80	MB08063300001	37,970
1.10	1.50	90L	MB09L6A300001	49,000
1.50	2.00	90L	MB09L65300001	51,790
2.20	3.00	100L	MB10L65300001	66,740
3.70	5.00	112M	MB11M65300001	76,890
5.50	7.50	132S	MB13S6G300001	1,03,700
7.50	10.00	132M	MB13M6T300001	1,14,950

750 RPM, 8 Pole				
KW	HP	Frame	Type	LP44
0.75	1.00	8	MB09L85300001	43,730
1.10	1.50	8	MB10L81300001	56,970
1.50	2.00	8	MB10L83300001	61,140
2.20	3.00	8	MB11M83300001	76,820
3.70	5.00	8	MB13S8G300001	1,00,170



\* Prices are exclusive of GST & other taxes & levies. GST, other taxes & levies shall be charged extra as applicable prevailing at the time of dispatch.



## IE2 Integral Brake Motors

B3 construction, 3 Phase Integral Brake Motor, Suitable for mains supply 415V±10%, 50Hz ±5% Combined Variation ±10%,  
 Brake Type : Failsafe, Normally ON, Input to brake will be 190VDC, Insulation class F with rise limited to F, Degree of Protection IP55,  
 Ambient Temperature 50° C, Method of Cooling : Totally Enclosed Fan Cooled, S4 Duty, 40% CDF, 60 Starts / Stops per hour, conforms to IS/IEC 60034

3000 RPM, 2 Pole				
KW	HP	Frame	Type	LP44
0.37	0.50	71	2B0712A300000	28,680
0.55	0.75	71	2B07123300000	29,860
0.75	1.00	80	2B08021300000	33,510
1.10	1.50	80	2B08023300000	36,210
1.50	2.00	90S	2B09S24300000	46,480
2.20	3.00	90L	2B09L27300000	50,800
3.70	5.00	100L	2B10L23300000	67,220
5.50	7.50	132S	2B13S2G300000	1,06,850
7.50	10.00	132S	2B13S2N300000	1,19,850

1500 RPM, 4 Pole				
KW	HP	Frame	Type	LP44
0.37	0.50	71	2B07143300000	28,080
0.55	0.75	80	2B08043300000	33,850
0.75	1.00	80	2B08045300000	36,180
1.10	1.50	90S	2B09S42300000	44,180
1.50	2.00	90L	2B09L47300000	48,110
2.20	3.00	100L	2B10L47300000	65,980
3.70	5.00	112M	2B11M47300000	78,180
5.50	7.50	132S	2B13S4K300000	1,01,650
7.50	10.00	132M	2B13M4T300000	1,11,650

1000 RPM, 6 Pole				
KW	HP	Frame	Type	LP44
0.37	0.50	80	2B08061300000	34,350
0.55	0.75	80	2B08063300000	37,260
0.75	1.00	90S	2B09S63300000	44,070
1.10	1.50	90L	2B09L65300000	51,330
1.50	2.00	100L	2B10L63300000	64,410
2.20	3.00	112M	2B11M65300000	75,930
3.70	5.00	132S	2B13S6G300000	99,040
5.50	7.50	132M	2B13M6T300000	1,11,920

750 RPM, 8 Pole				
KW	HP	Frame	Type	LP44
0.37	0.50	90S	2B09S81300000	45,180
0.55	0.75	90L	2B09L85300000	50,660
0.75	1.00	100L	2B10L81300000	65,230
1.1	1.50	100L	2B10L83300000	68,900
1.5	2.00	112M	2B11M81300000	77,510
2.2	3.00	132S	2B13S8B300000	1,07,920

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## CASH EXTRAS FOR ADDITIONAL FEATURES

Sr. No.	FEATURES	Cash Extras / Percentage Extras LP44
<b>1.00</b>	<b>MECHANICAL FEATURES</b>	
<b>1.01</b>	<b>Construction Mounting Position</b>	
(a)	For foot mounting: B3, B6, B7, B8, V5 & V6	Nil
(b)	For Standard Flange / Face / Foot cum Flange / Foot cum Face mounting: B5, V1, V18, V19, B14, B35 / B34;	Frame: 63 to 160 : 3% Frame: 180 and above : 5%
<b>1.02</b>	<b>Canopy</b>	
(a)	Top plate cowl for V1 construction (80 frame onwards)	Frame: 80 to 100 : Rs. 1,400/-
		Frame: 112 to 132 : Rs. 1,800/-
		Frame: 160 to 180 : Rs. 2,200/-
		Frame: 200 : Rs. 3,500/-
		Frame: 225 to 315 : Rs. 5,000/-
(b)	FRP Canopy For Safe Area and Increased Safety Ex ec Motors: Frame 90 and above (with terminal box on RHS only)	Frame: 355 to 400 : Rs. 7,500/-
		Frame: 90 to 100 : Rs. 1,500/-
		Frame: 112 to 180 : Rs. 2,500/-
		Frame: 200 to 250 : Rs. 5,000/-
		Frame: 280 to 315 : Rs. 10,000/-
(c)	FRP Canopy For Flame Proof Ex 'd' Motors: Frame 160 and above (with terminal box on RHS only)	Frame: 355 : Rs. 15,000/-
		Frame: 132 to 180 : Rs. 2,500/-
		Frame: 200 to 250 : Rs. 5,000/-
		Frame: 280 to 315 : Rs. 10,000/-
<b>1.03</b>	<b>Shaft Extension / Material</b>	
(a)	Single / double non std sha, if dia or eq xtn is less than or equal to standard	5%
(b)	Shaft Extension / Material : Single / double non standard shaft extension with length restricted to 2.5 times standard	10%
(c)	Any other Diameter / Extension	Refer to Sales Office
(d)	EN19, EN24 / EN57 material, 45C8	10%
(e)	Stainless Steel Sha maà terial (SS304, SS316, SS410, SS416)	15%
(f)	Other material (if any)	Refer to Sales Office
<b>1.04</b>	<b>Water Flingers: Rubber Material</b>	
(a)	Water Flingers: Rubber Material	Frame: 90 to 225 : Rs. 500/-
		Frame: 250 to 355 : Rs. 2,000/-
(b)	Water Flinger of other than rubber material	Refer to Sales Office

For any non-standard features not mentioned above, kindly contact our nearest sales office

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## CASH EXTRAS FOR ADDITIONAL FEATURES

Sr. No.	FEATURES	Cash Extras / Percentage Extras LP44
<b>1.05</b>	<b>Painting</b>	
<b>(a)</b>	<b>Paint Type</b>	
(i)	For Safe Area Motors: Other than our std Acrylic Paint (For Safe Area Motors: Our std paint shade is RAL 5000 Acrylic Paint.)	5% subject to maximum of Rs. 7,000/- <i>If safe area motor is required with AAP, then standard shade will be 632</i>
(ii)	For Hazardous Area Motors (Ex'd', Ex ec): Other than Acid Alkali Proof Paint (For Hazardous Area Motors (Ex'd' & Ex ec): Our standard paint type is Acid Alkali Proof with 632 shade)	5% subject to maximum of Rs. 10,000/-
<b>(b)</b>	<b>Paint Shade</b>	
(i)	For Safe Area Motors: Other than RAL 5000	5% subject to maximum of Rs. 15,000/-
(ii)	For Hazardous Area Motors (Ex'd', Ex ec): Other than 632 shade	5% subject to maximum of Rs. 15,000/-
<b>(c)</b>	<b>Paint Thickness (for AAP type paint)</b>	
(i)	For Additional paint thickness, more than 70 micron and upto 120 micron	5%
(ii)	For additional paint thickness, more than 121 micron and upto 170 micron	7%; But seek a separate confirmation from sales on detailed painting scheme before offering
(iii)	For additional paint thickness, more than 171 micron and upto 220 micron	10%; But seek a separate confirmation from sales on detailed painting scheme before offering
(iv)	For additional paint thickness, more than 221 micron and upto 270 micron	15%; But seek a separate confirmation from sales on detailed painting scheme before offering
<b>(d)</b>	<b>Epoxy Gel Coat on winding overhang</b> (Epoxy gel coat on winding overhang and SS nameplate is standard feature for Hazardous Area Motors i.e. Ex'd', Ex ec motors)	2%
<b>(e)</b>	<b>Shot Blasting</b>	Refer to Sales Office
<b>1.06</b>	<b>Ingress Protection: IP</b>	
<b>(a)</b>	IP56 / IP65 / IP66	5%
<b>1.07</b>	<b>Hazardous Area motors</b>	
<b>(a)</b>	<b>Increased Safety Ex ec Motors as per IS/IEC 60079-7 (Formerly known as Non Sparking Ex 'nA' Motors)</b>	
(i)	IE2 Increased Safety Ex ec Motors	7.5% on the selected frame of IE2 safe area motor
(ii)	IE3 Increased Safety Ex ec Motors	7.5% on the selected frame of IE3 safe area motor
<b>(b)</b>	<b>Flame proof motors for zone 21/22 area with CIMFR test reports, in IE2 and IE3 efficiency series</b> (IP66 is a standard feature in motors for Zone 21 / 22 area)	25% over respective FLP LP; discount not applicable
<b>(c)</b>	<b>Flame Proof Ex 'd' Motors with ATEX/IECEx approval</b>	10%
<b>1.08</b>	<b>Impregnation Schemes</b>	
<b>(a)</b>	<b>Inverter Grade Winding</b>	Frame 63 to 315 : 8% Frame 355 and above : Nil
<b>(b)</b>	<b>Only VPI</b>	Frame 63 to 315 : 5% Frame 315 and above : Nil
<b>(c)</b>	<b>Motors for Inverter Duty: 500 to 690V (Scheme III Insulation)</b>	Refer to sales office

For any non-standard features not mentioned above, kindly contact our nearest sales office

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## CASH EXTRAS FOR ADDITIONAL FEATURES

Sr. No.	FEATURES	Cash Extras / Percentage Extras LP44
1.09	Forced Cooling (Fan with motor and Cowl)	Frame: 132 to 160 : Rs. 8,000/-
		Frame: 180 : Rs. 11,000/-
		Frame: 200 to 225 : Rs. 18,000/-
		Frame: 250 to 280 : Rs. 25,000/-
		Frame: 315 to 355 : Rs. 31,000/-
		Frame: 400 to 450 : Rs. 59,000/-
1.10	Provision for Encoder Mounting 132 frame onwards For frame 400 & 450: Refer to sales office	Frame: 132 to 160 : Rs. 3,000/-
		Frame: 180 to 225 : Rs. 7,500/-
		Frame: 250 to 280 : Rs. 14,000/-
		Frame: 315 and 355 : Rs. 22,000/-
1.11	Space Heater for Safe Area Motors :	Frame: 80 to 112 : Rs. 2,000/-
		Frame: 132 to 160 : Rs. 2,200/-
		Frame: 180 to 355 : Rs. 4,500/-
1.12	PESO Approved Space Heater for Increased Safety Ex ec and Flame Proof Ex 'd' Motors Not for ATEX motors	Frame: 80 to 132 : Rs. 3,500/-
		Frame: 160 to 200 : Rs. 4,500/-
		Frame: 225 to 280 : Rs. 5,500/-
		Frame: 315 : Rs. 7,500/-
		Frame: 355 : Rs. 8,500/-
1.13	Space Heater for ATEX approved motors	Frame: 80 to 160 : Rs. 5,000/-
		Frame: 180 to 200 : Rs. 9,000/-
		Frame: 225 to 280 : Rs. 11,000/-
		Frame: 315 : Rs. 15,000/-
1.14	Sealing Box for FLP Motors Mandatorily to be considered for applications in Oil Mines & Coal Mines	Frame: 90 to 132 : Rs. 1,850/-
		Frame: 160 to 200 : Rs. 2,200/-
		Frame: 225 to 315 : Rs. 2,400/-
		Frame: 355 : Rs. 4,000/-
1.15	Cable Glands: Safe Area	<b>Price in Rupees Per Gland</b>
		Frame: 63 to 160 : Rs. 1,500/-
		Frame: 180 to 225 : Rs. 2,500/-
		Frame: 250 to 280 : Rs. 4,000/-
		Frame: 315 : Rs. 4,500/-
Frame: 355 to 450 : Rs. 5,200/-		
1.16	Cable Glands: PESO approved for Ex ec and Ex 'd' ; not for ATEX motors	<b>Price in Rupees Per Gland</b>
		Frame: 80 to 132 : Rs. 2,000/-
		Frame: 160 to 200 : Rs. 5,000/-
		Frame: 225 to 280 : Rs. 8,000/-
Frame: 315 to 355 : Rs. 12,500/-		

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## CASH EXTRAS FOR ADDITIONAL FEATURES

Sr. No.	FEATURES	Cash Extras / Percentage Extras LP44
1.17	Cable Glands: for ATEX/IECEx motors	<b>Price in Rupees Per Gland</b>
		Frame: 80 to 160 : Rs. 4,000/-
		Frame: 180 to 225 : Rs. 7,500/-
		Frame: 250 to 315 : Rs. 17,000/-
1.18	Metal Stopping Plug for Safe Area Motors	Frame: 63 to 160 : Rs. 750/-
		Frame: 180 to 225 : Rs. 1,300/-
		Frame: 250 to 355 : Rs. 1,700/-
1.19	Metal Stopping Plug for Increased Safety Ex ec Motors : 63 to 355 frame and Flame Proof Ex'd' Motors : 80 to 355 frame	Frame: 63 to 160 : Rs. 900/-
		Frame: 180 to 225 : Rs. 1,700/-
		Frame: 250 to 315 : Rs. 4,000/-
		Frame: 355 : Rs. 5,000/-
1.20	Metal Stopping Plug for ATEX/IECEx motors	Frame: 80 to 160 : Rs. 2,200/-
		Frame: 180 to 225 : Rs. 4,200/-
		Frame: 250 to 315 : Rs. 10,000/-
1.21	Provision for fitment of external brake in IE2 Safe Area and Crane Duty Motors On NDE side e.g. EMCO: Providing Brake mounting arrangement only without brake	Frame: 71 to 80 : Rs. 2,200/-
		Frame: 90 : Rs. 2,700/-
		Frame: 100 to 132 : Rs. 4,500/-
		Frame: 160 to 180 : Rs. 5,800/-
		Frame: 200 : Rs. 8,000/-
1.22	Low Vibration as per IS 12075	
	(a) Reduced Vibration	10%
	(b) Special Vibration	20%
1.23	Bearings	
(a)	Roller Bearing at DE Side in place of ball bearing <i>Safe Area: Frame 112 to 450; Hazardous Area: Frame 160 to 315. For Frame 132: subject to confirmation from our nearest sales office. Online Greasing Arrangement is standard feature if Roller bearing at DE side is considered.</i>	Frame: 112 and 132 : Rs. 2,800/-
		Frame: 160 to 180 : Rs. 3,500/-
		Frame: 200 to 315 : Rs. 5,000/-
		Frame: 355 Safe area : Rs. 6,000/-
		Frame: 355 FLP : Rs. 7,000/-
		Frame: 400 and 450 : Rs. 9,000/-
(b)	Hybrid Bearing (at NDE side)	Frame: 100 to 132 : Rs. 14,000/-
		Frame: 160 to 225 : Rs. 17,500/-
(c)	Insulated Bearings (at NDE side)	Frame : 250 to 280 : Rs. 33,000/-
		Frame: 315 : Rs. 34,000/-
		Frame: 355 to 450 : Rs. 47,000/-
(d)	WT Bearing: (-40deg to +150deg Celcius)	Frame : 71 to 132 : Rs. 800/- <i>per bearing</i>

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## CASH EXTRAS FOR ADDITIONAL FEATURES

Sr. No.	FEATURES	Cash Extras / Percentage Extras LP44
1.24	<b>Other Miscellaneous Features</b>	
(a)	One size Higher Terminal Box	Frame: 71 to 112 : Rs. 500/-
		Frame: 132 and 160 : Rs. 1,750/-
		Frame: 180 : Rs. 3,500/-
		Frame: 200 and 225 : Rs. 4,000/-
		Frame: 250 : Rs. 6,000/-
		Frame: 280 : Rs. 9,000/-
		Frame: 315 and 355 : Rs. 17,500/-
(b)	Cast Iron Terminal Box ( <i>where Aluminium is standard</i> )	Frames: 71 to 160 : Rs. 500/-
(c)	Cast Iron Fan ( <i>where plastic fan is standard</i> )	3%
(d)	Stainless Steel Hardwares (only for safe area motors)	Frame: 71 to 225 : Rs. 1,500/-
		Frame: 250 and 280 : Rs. 2,500/-
		Frame: 315 : Rs. 3,000/-
		Frame: 355 : Rs. 5,000/-
(e)	Seaworthy/export packing case for home market (Without fumigation certificate)	Frame: 71 to 80 : Rs. 1,000/-
		Frame: 90 to 160 : Rs. 2,000/-
		Frame : 180 to 250 : Rs. 6,000/-
		Frame: 280 to 315 : Rs. 10,000/-
		Frame: 355 : Rs. 15,000/-
(f)	Longer Flying leads ( <i>length not exceeding 1.5m</i> )	Frame: 63 to 90 : Rs. 500/-
		Frame: 100 to 112 : Rs. 800/-
		Frame: 132 to 180 : Rs. 2,000/-
		Frame: 200 to 225 : Rs. 5,000/-
		Frame: 250 to 280 : Rs. 10,000/-
		Frame: 315 & 355 : Rs. 16,000/-
(g)	Longer Flying leads ( <i>length exceeding 1.5m and less than 3m</i> )	Frame: 63 to 90 : Rs. 900/-
		Frame: 100 to 112 : Rs. 1,400/-
		Frame: 132 to 180 : Rs. 3,800/-
		Frame: 200 to 225 : Rs. 9,000/-
		Frame: 250 to 280 : Rs. 17,000/-
		Frame: 315 & 355 : Rs. 28,000/-
(h)	Extra Name Plate / Tag Plate	Rs. 600/-
(i)	Front Bearing locking arrangement	5% till 280 frame

For any non-standard features not mentioned above, kindly contact our nearest sales office

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## CASH EXTRAS FOR ADDITIONAL FEATURES

Sr. No.	FEATURES	Cash Extras / Percentage Extras LP44
<b>1.25</b>	<b>Miscellaneous Mechanical Features:</b>	
(a)	Direction Arrow Plate	Rs. 600/-
(b)	Spreader box (frames 180-315 Fr) for safe area Motors	2%
(c)	On Line Greasing Arrangement	<b>For Safe Area :</b> Frame: 132 to 225 : Rs. 1,400/- <b>For Flame Proof Ex 'd' and Increased Safety Ex ec :</b> Frame: 180 to 200 : Rs. 3,500/-
(d)	SPM Nipples provision : for safe area motors (for 250 fr onwards)	For Frames 250 onwards : Rs. 5,000/-
(e)	High Temperature Grease	Frame: 112 to 160 : Rs. 5,000/- Frame: 180 to 200 : Rs. 8,000/- Frame: 225 to 250 : Rs. 14,000/- Frame: 280 : Rs. 27,000/- Frame: 315 : Rs. 37,000/- Frame: 355 : Rs. 42,000/- Frame: 400 to 450 : Rs. 1,10,000/-
(f)	3, 4 cable Run T Box	Frame 355DCCA, 400 and 450 : Rs. 90,000/-
<b>1.26</b>	<b>Motor with Fabricated body</b>	Frame: 315 : Rs. 90,000/- Frame: 355 : Rs. 1,60,000/-

### Cash Extra Price Calculations.

- (a). Wherever cash extras are in percentage please add to the list price and then apply discount.  
 (b). Where cash extras are in absolute values please add them to the discounted net price i.e. after applying the discount.  
 No discount applicable on absolute values

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## CASH EXTRAS FOR ADDITIONAL FEATURES

Sr. No.	FEATURES	Cash Extras / Percentage Extras LP44
<b>2.00</b>	<b>ELECTRICAL FEATURES</b>	
<b>2.01</b>	<b>Base voltage between 250 to 550V</b>	
(a)	415V, 50Hz	Nil
(b)	Non Standard Voltage 220 / 550V, 50Hz / 60Hz	5%
(c)	Dual voltage	5%
<b>2.02</b>	Longer Core length	10%
<b>2.03</b>	Insulation Class 'H'	10%
<b>2.04</b>	<b>Thermistors: Safe Area Motors: 90 Frame onwards</b>	
(a)	Set of 3 nos PTC Thermistors without controller	Rs. 2,500/-
(b)	Set of 6 nos PTC Thermistors without controller	Rs. 5,000/-
(c)	Thermostats per unit	Rs. 1,000/- ; but seek a separate confirmaon from sales before offering
	<b>PESO Approved Thermistors</b>	
(d)	<b>For ATEX/IECEX motors</b> 3nos PTC without controller for ATEX approved motors	Rs. 10,000/-
(e)	<b>Thermistors 3nos:</b> for Increased Safety Ex ec & Flame Proof Ex 'd' motors	Rs. 5,500/-
(f)	<b>Thermistors 6nos:</b> for Increased Safety Ex ec & Flame Proof Ex 'd' motors	Rs. 6,000/-
<b>2.05</b>	<b>Multispeed Motors (safe area only)</b>	
(a)	Single tapped winding upto 8 pole	Refer Sales Office
(b)	Dual speed with separate winding	
(c)	Motors single speed with 10, 12 Poles	
<b>2.06</b>	Intermi ent Duty Motors (for motors other than standard MC series)	10% on selected frame size
<b>2.07</b>	<b>RTD: for Safe Area motors (250 frame and above)</b>	
(a)	RTD (Simplex: 3 nos: 1 per phase) : It is a standard for DCCA motors.	Rs. 8,000/-
(b)	RTD (Simplex: 6 nos: 2 per phase) :	Rs. 13,000/-
(c)	RTD (Duplex: 3 Nos: 1 per phase) :	Rs. 13,000/-
(d)	RTD (Duplex: 6Nos: 2 per phase) :	Rs. 26,000/-
<b>2.08</b>	<b>BTD : 2 Nos. (For safe area motors 250 frame onwards (Not for Hazardous Area)</b>	
(a)	BTD: Simplex: It is a standard feature for DCCA motors.	Rs. 8,500/-
(b)	BTD: Duplex: 2 nos	Rs. 10,000/-

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## CASH EXTRAS FOR ADDITIONAL FEATURES

Sr. No.	FEATURES	Cash Extras / Percentage Extras LP44
<b>3.00</b>	<b>OTHER CHARGES</b>	
<b>3.01</b>	<b>Routine Testing</b>	Frame: 63 to 160 : Rs. 2,500/-
		Frame: 180 to 225 : Rs. 3,500/-
		Frame: 250 to 450 : Rs. 5,000/-
<b>3.02</b>	<b>Type Testing</b>	Frame: 63 to 132 : Rs. 5,500/-
		Frame: 160 to 225 : Rs. 10,000/-
		Frame: 250 to 315 : Rs. 14,000/-
		Frame: 355 : Rs. 20,000/-
		Frame: 400 to 450 : Rs. 27,000/-
<b>3.03</b>	<b>Combined Testing of Flame Proof Ex 'd' and Increased Safety Ex ec Motors</b> <i>(In presence of approved test house authority)</i>	Rs. 2,10,000/-
<b>3.04</b>	<b>Motor tesing with Inverter Drive (Safe Area)</b> <i>Testing of Safe area motor with VFD: Only temp rise test for motor will be carried out. Test report will be issued only for motor.</i>	Rs. 70,000/- per motor <i>(With BBL certification only.)</i>
<b>3.05</b>	<b>Noise and Vibration Test</b>	Frame: 63 to 225 : Rs. 5,000/-
		Frame 250 and above : Rs. 10,000/-
<b>3.06</b>	(a) <b>Shaft UT Test (per unit)</b>	Rs. 6,000/- per sha; <i>Minimum charge for this test will be Rs 18,000/- i.e for min 3 nos shafts; For any quantity more than 3 nos the said charge of Rs. 6,000/- per shaft will apply.</i>
	(b) <b>Shaft DP or LPT Test (per unit)</b>	Rs. 8,000/- per sha; <i>Minimum charge for this test will be Rs. 24,000/- i.e it is for min 3 nos shafts ; For any quantity more than 3 nos the said charge of Rs. 8,000/- per shaft will apply.</i>
<b>3.07</b>	<b>Body DP or LPT Test</b>	Rs. 15,000/ - per motor; <i>Minimum charge for this test will be Rs. 30,000/- i.e it is for min 2 nos ; For any quantity more than 2 nos the said charge of Rs. 15,000/- per motor will apply.</i>

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## CASH EXTRAS FOR ADDITIONAL FEATURES

Sr. No.	FEATURES	Cash Extras / Percentage Extras LP44
<b>3.00</b>	<b>OTHER CHARGES</b>	
<b>3.08</b>	<b>Additional running of motor at no load for 30min</b>	Rs. 2,500/- per motor
<b>3.09</b>	<b>Shaft voltage test</b>	Rs. 2,000/- per motor
<b>3.10</b>	<b>Dimensional Inspection</b>	Upto Frame 132 : Rs. 2,000/- per motor Frame 160 and above : Rs. 3,000/- per motor
<b>3.11</b>	<b>Documentation Charges (Technical/Commercial)</b>	
	(a) Documents for approval/submission	Rs. 2,000/-
	(b) Marine Motors' documentaon	Refer to Sales Office

### **Cash Extra Price Calculations.**

- (a). Wherever cash extras are in percentage please add to the list price and then apply discount.  
 (b). Where cash extras are in absolute values please add them to the discounted net price i.e. after applying the discount.  
 No discount applicable on absolute values

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# LV Motors Product Range

Motors Conform to relevant Indian Standards IS/IEC 60034 series  
Voltage: 415V +/- 10%, Frequency: 50 Hz +/- 5%, Combined Variation: +/- 10%

Insulation: Class 'F' with temperature rise limited to Class 'B', Rotation: Bi-directional  
Cooling: IC411, Degree of Protection: IP55, Altitude: upto 1000m above MSL

Motor Type	Frame	Power (kW)	Polarity		Standard Technical Specifications	Optional Features	Applications	
IE2 Motors	56 to 355	0.12 to 355	2, 4, 6, 8		<ul style="list-style-type: none"> <li>Ambient: 50° C</li> <li>Ambient for DCCA: 40° C</li> <li>Inverter Grade Winding: For IE3 and DCCA</li> <li>Duty: S1</li> <li>RTD &amp; BTD: For DCCA motors</li> <li>Mounting: B3, B5, B35, V1, B14 upto 132 frame</li> </ul>	<ul style="list-style-type: none"> <li>Non Standard Voltage: upto 690V</li> <li>Higher Polarity on request</li> <li>Insulation: Class H</li> <li>Space Heater: 90 Frame onwards</li> <li>RTD &amp; BTD: 250 Frame onwards</li> <li>PTC Thermistor: 80 to 355L</li> <li>Shaft Material: EN24*</li> <li>Enclosure: IP56 / 65 / 66</li> <li>Forced Cooling: 132 to 450 Frame</li> <li>Roller Bearing: 160 Frame onwards</li> </ul>	<ul style="list-style-type: none"> <li>High Temperature Grease: Suitable up to 200° C</li> <li>SS Hardware</li> <li>Non standard shaft diameter/extension*</li> <li>Non Standard Paint</li> <li>Provision for Encoder Mounting</li> <li>Low Vibration as per IS or IEC</li> <li>Insulated Bearing: 132 Frame onwards</li> <li>SPM Nipples Provision: Frame 250 onwards</li> </ul>	Pump, Fan, Compressor, Packing 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
IE3 Motors	56 to 355	0.12 to 355	2, 4, 6, 8		<ul style="list-style-type: none"> <li>Ambient: 50° C</li> <li>Inverter Duty Winding</li> <li>Duty: S1</li> <li>VPI: With Class H solvent less Resin</li> <li>Mounting: B3, B5, B35, V1</li> </ul>	<ul style="list-style-type: none"> <li>Insulation: Class H</li> <li>Space Heater: 90 frame onwards</li> <li>PTC Thermistor: 80 to 225 Frame</li> <li>Shaft Material: EN24*</li> <li>Enclosure: IP56 / 65 / 66</li> <li>Roller Bearing: 160 Frame onwards</li> </ul>	<ul style="list-style-type: none"> <li>Non standard shaft diameter/extension*</li> <li>Non Standard Paint</li> <li>Provision for Encoder Mounting</li> <li>Low Vibration as per IS or IEC</li> </ul>	Fans, HVAC, Pumps, Textiles, Hydraulic Press
Large LT Motors (DCCA)	355 to 450	250 to 1250	2, 4, 6, 8		<ul style="list-style-type: none"> <li>Ambient: 45° C</li> <li>Inverter Grade Winding: For IE3 Motors</li> <li>Duty: S1</li> <li>Mounting: B3, B5, B35, V1</li> </ul>	<ul style="list-style-type: none"> <li>Non Standard Voltage: 220 to 690V</li> <li>Intermittent Duty S3, S4: In 4, 6, 8 Pole*</li> <li>Insulation: Class H</li> <li>PTC Thermistor: 80 to 315 L</li> <li>Space Heater: 90 Frame onwards</li> <li>Roller Bearing: 160 Frame onwards</li> <li>Shaft Material: EN24*</li> <li>Enclosure: IP56 / 65 / 66</li> </ul>	<ul style="list-style-type: none"> <li>Insulated Bearing: 132 Frame onwards</li> <li>Non standard shaft diameter/extension*</li> <li>Motors for inverter duty application ; offered with                             <ul style="list-style-type: none"> <li>Combined testing of motor and VFD or</li> <li>Motors fitted with PTC Thermistor</li> </ul> </li> <li>Test facility available for combined Testing with VFD</li> <li>Non Standard Paint</li> <li>Low Vibration as per IS or IEC</li> </ul>	Pump, Fan, Compressor, Material Handling, Agitator, LPG Bottling Plant, Pharma Machinery, Chemical Plant Machinery, Machinery for mines
IE4 Motors	112 to 225	1.5 to 45	4		<ul style="list-style-type: none"> <li>Ambient: 50° C</li> <li>Duty: S1</li> <li>Mounting: B3, B5, B35, V1 (B14 upto 132 Frame)</li> </ul>	<ul style="list-style-type: none"> <li>Insulation: Class H</li> <li>Shaft Material: EN24*</li> <li>Enclosure: IP56 / 65 / 66</li> <li>Roller Bearing: 160 Frame onwards</li> </ul>	<ul style="list-style-type: none"> <li>Insulated Bearing: 132 Frame onwards</li> <li>Non standard shaft diameter/extension*</li> <li>Motors for inverter duty application with combined testing of motor and VFD for temperature class certification</li> <li>Test facility available for combined testing with VFD</li> <li>Non Standard Paint</li> <li>Low Vibration as per IS or IEC</li> </ul>	Pump, Fan, Compressor, Material Handling, Agitator, Pharma Machinery
Standard Flame Proof Ex'd' Motors	80 to 355	0.37 to 315	2, 4, 6, 8		<ul style="list-style-type: none"> <li>Ambient: 45° C</li> <li>Duty: S4</li> <li>Offered in DOL &amp; Converter Fed Supply</li> <li>Mounting: B3, B5, B35, V1 (B14 upto 132 Frame)</li> </ul>	<ul style="list-style-type: none"> <li>Duty: S2, S3 and S5</li> <li>Non Standard Voltage: 380 to 460V</li> <li>Insulation: Class H</li> <li>Space Heater: 90 Frame onwards</li> <li>BTD: 250 Frame &amp; above</li> <li>PTC Thermistor: 80 to 355 L</li> <li>Roller Bearing: 160 Frame onwards</li> <li>Shaft Material: EN24*</li> <li>Enclosure: IP56 / 65 / 66</li> </ul>	<ul style="list-style-type: none"> <li>Motors for Inverter Duty</li> <li>Insulated Bearing: 132 Frame onwards</li> <li>Non standard shaft diameter/extension*</li> <li>Non Standard Paint</li> <li>Low Vibration as per IS or IEC</li> </ul>	Crane, Hoist, Lift, Material Handling, Car Stacker, Door Opening
IE2 Flame Proof Ex'd' Motors	80 to 355	0.37 to 315	2, 4, 6, 8		<ul style="list-style-type: none"> <li>Ambient: 50° C</li> <li>Duty: S1</li> <li>Mounting: B3, B5, B35, V1</li> <li>Integral DC Brake</li> </ul>	<ul style="list-style-type: none"> <li>Duty: S2 and above</li> <li>Non Standard Voltage: upto 460V</li> <li>Motors for Inverter Duty</li> <li>Manual Release Arrangement: For 90 to 132 Frame</li> </ul>	<ul style="list-style-type: none"> <li>Non standard shaft diameter/extension*</li> <li>Non Standard Paint</li> </ul>	Crane, Hoist, Material Handling, Textile, Pharma to name a few
IE3 Flame Proof Ex'd' Motors	80 to 355	0.37 to 315	2, 4, 6, 8		<ul style="list-style-type: none"> <li>Ambient: 50° C</li> <li>Duty: S1</li> <li>Mounting: B3, B5, B35</li> <li>External Mounted DC Brake/Arrangement</li> </ul>	<ul style="list-style-type: none"> <li>Duty: S2 and above</li> <li>Non Standard Voltage: upto 460V</li> <li>Motors for Inverter Duty</li> <li>Manual Release Arrangement</li> </ul>	<ul style="list-style-type: none"> <li>Double Shaft Extension for brake arrangement</li> <li>Non Standard Paint</li> </ul>	Crane, Hoist, Material Handling, Textile, Pharma to name a few
IE2 Increased Safety Ex ec Motors	63 to 355	0.12 to 355	2, 4, 6, 8		<ul style="list-style-type: none"> <li>Ambient: 45° C</li> <li>Duty: S3, S4, S5</li> <li>Mounting: B3</li> </ul>	<ul style="list-style-type: none"> <li>Mounting: B35</li> <li>Non standard shaft diameter &amp; extension*</li> </ul>	<ul style="list-style-type: none"> <li>Non Standard Paint</li> </ul>	Crane, Hoist, Lift, Material Handling
IE3 Increased Safety Ex ec Motors	63 to 355	0.12 to 355	2, 4, 6, 8		<ul style="list-style-type: none"> <li>Ambient: 50° C</li> <li>Duty: S1</li> <li>Mounting: B3, B5, B35</li> </ul>	<ul style="list-style-type: none"> <li>Non Standard Voltage: upto 500V</li> <li>Insulation: Class H</li> </ul>	<ul style="list-style-type: none"> <li>Motors for Inverter Duty</li> <li>Non Standard Paint</li> <li>Low Vibration as per IS</li> </ul>	Ginning, Textile Machinery
Crane & Hoist Duty Motors	71 to 355	0.37 to 400	4, 6, 8		<ul style="list-style-type: none"> <li>Ambient: 45° C</li> <li>Start/Stop per Hour: upto 900</li> <li>Duty: S5, 50% CDF</li> <li>Thermostat</li> <li>Mounting: B3, B5, B35</li> <li>Forced Cooling</li> <li>Shaft Material: En24</li> </ul>	<ul style="list-style-type: none"> <li>Insulation: Class H</li> <li>PTC Thermistor</li> </ul>	<ul style="list-style-type: none"> <li>Insulated Bearing: 132 Frame onwards</li> <li>Non Standard Paint</li> </ul>	Cane Loading-Unloading Machine
Brake Motors (With Integral DC Brake)	71 to 132	0.25 to 9.3	2, 4, 6, 8					
Brake Motors (With External Mounted Brake)	71 to 200	0.37 to 22	2, 4, 6, 8					
Slip Ring Motors	100 to 160	1.1 to 10	4, 6					
Textile Motors	100 to 160	1.1 to 15	4, 6, 8					
Cane Unloader Motors	160 to 225	11 to 30	6					

\* Subject to confirmation from Bharat Bijlee

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