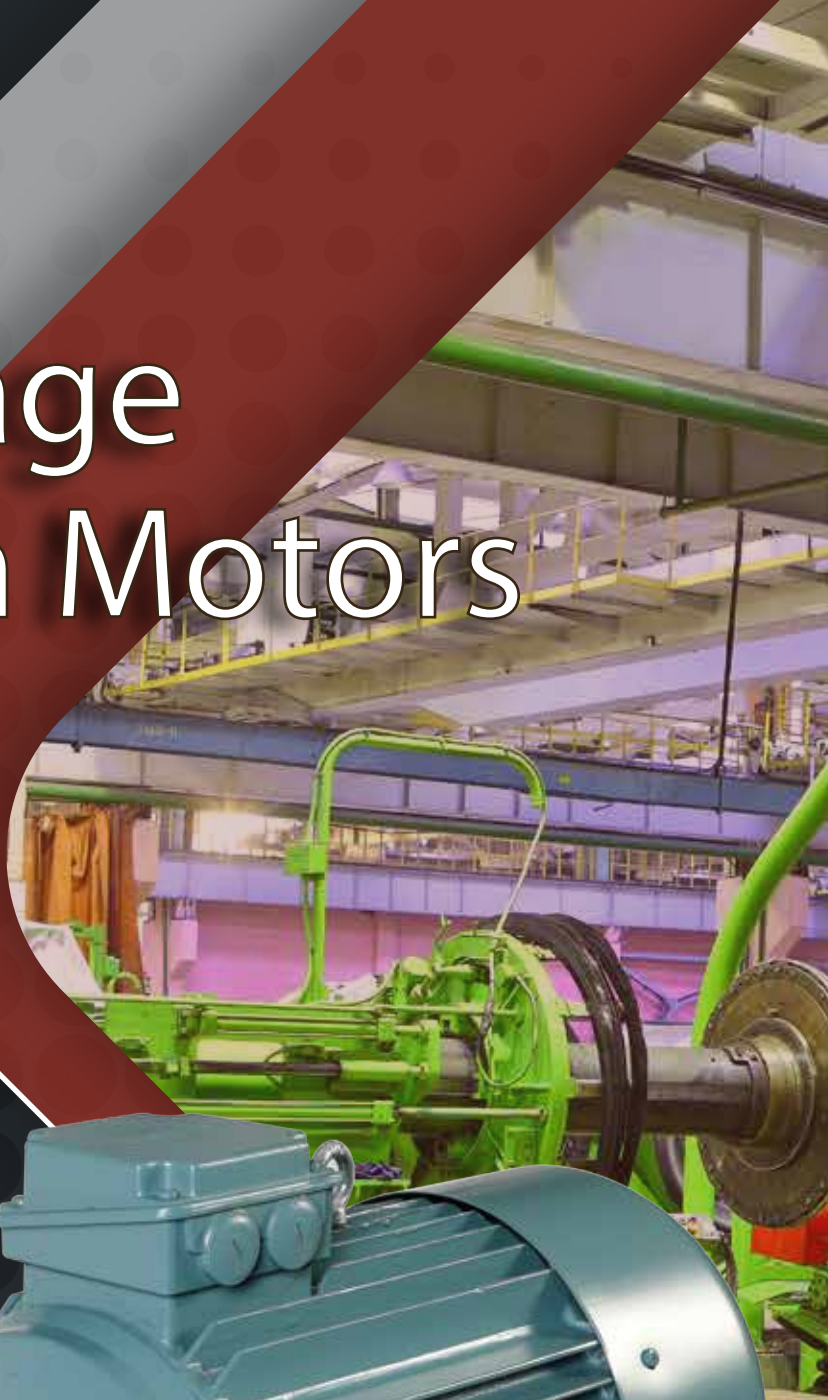




**HAVELLS**

IE4 IE3 IE2

# Low Voltage Induction Motors



HM-02

**LIST PRICE**

w.e.f. 10<sup>th</sup> June, 2024

Scan the QR code  
to download **Havells**  
**Motor Connect App**



18% \*GST | \*Subject to change as per Govt. notification



## Content

Standard Product / Material Specification .....	3
Cast Iron IE4 (Super Premium Efficiency) foot mounted B3 .....	4
Cast Iron IE3 (Premium Efficiency) foot mounted B3 .....	5-6
Cast Iron IE2 (High Efficiency) foot mounted B3 .....	7-8
Aluminium IE3 (Premium Efficiency) foot mounted B3 .....	9
Aluminium IE2 (High Efficiency) foot mounted B3 .....	10
IE2 (High Efficiency) Brake Motor foot mounted B3 .....	11-12
Crane Duty (High Efficiency) Motor foot mounted B3 .....	13-14
Crane Duty (High Efficiency) Brake Motor foot mounted B3 .....	15-16
IE2 (High Efficiency) Fire Fighting Motor foot mounted B3 .....	17
Special Applications Motor .....	18
IE3 (Premium Efficiency) Flameproof Motor .....	21-22
IE2 (High Efficiency) Flameproof Motor .....	23-24
Cash Extra for non standard features .....	25-27



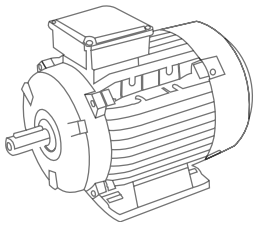
## STANDARD PRODUCT SPECIFICATIONS

Type	AC Three Phase Squirrel Cage Induction Motor
Efficiency	Energy Efficient As per IS 12615:2018, IEC 60034-1
Voltage ± Variation	415 V ± 10%
Frequency ± Variation	50 Hz ± 5%
Combined Variation	10% (Absolute Sum)
Enclosure	TEFC
Mounting	Foot, Face, Flange, Foot cum Flange & Foot cum face
Frame Dimensions	As per IS 1231 & IS 2223
Altitude	Upto 1000 m
Relative Humidity	Upto 100%
Degree of Protection	IP 55 (As per IS 4691)
Class of Insulation	Class 'F'
Ambient Temp / Temp Rise	50 °C / 70 °C
Duty / Rating	S1 (Continuous)
Position of Terminal Box	Top
Direction of Rotation	Bi-directional
Grease Type	Lithium Based Grease
Cooling	Shaft Mounted Fan
Paint	Smoke Grey

## MATERIAL SPECIFICATIONS

Motor Parts	Frame size	Material
Stator Frame	63 - 132	Aluminium alloy
	80 - 355	Cast Iron
Endshield	63 - 112	Aluminium alloy
	80 - 355	Cast iron
Flanged Endshield	63 - 112	Aluminium alloy
	80 - 355	Cast iron
Fan Cover	63 - 71	Industrial nylon grade
	80 - 355	Sheet Metal
Fan	63 - 250	Industrial nylon grade
	280-355	Cast Iron
Terminal Box	63 - 71	Industrial nylon grade
	80 - 160	Sheet Metal
	180- 355	Cast Iron





# Super Premium Efficiency - IE4

Cast Iron

Totally Enclosed Fan Cooled (TEFC) Squirrel Cage Induction Motors - Horizontal Foot Mounted (B3)

Induction Motor suitable for continuous duty (S1), 415 V ± 10%, 3 Phase, 50 Hz ± 5%, Insulation Class 'F' with temperature rise limited to Class B, Degree of protection IP 55, Ambient of 50 °C conforming to IS 12615: 2018, IEC 60034-1

## 2 Pole -3000 rev/min

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.75	1	MHSP80ZAG2	MHCRTDS20X75	19400.00
1.1	1.5	MHSP80ZBG2	MHCRTDS201X1	21200.00
1.5	2	MHSP90SAG2	MHCRTES201X5	24660.00
2.2	3	MHSP90LAG2	MHCRTFS202X2	31580.00
3.7	5	MHSP100LAG2	MHCRTGS203X7	39830.00
5.5	7.5	MHSP132SAG2	MHCRTIS205X5	66960.00
7.5	10	MHSP132SBG2	MHCRTIS207X5	73040.00
9.3	12.5	MHSP160MAG2	MHCRTKS209X3	120830.00
11	15	MHSP160MBG2	MHCRTKS20011	125420.00
15	20	MHSP160MCG2	MHCRTKS20015	138510.00
18.5	25	MHSP160LAG2	MHCRTLS218X5	161870.00
22	30	MHSP180MAG2	MHCRTMS20022	185490.00
30	40	MHSP200LAG2	MHCRTOS20030	271720.00
37	50	MHSP200LBG2	MHCRTOS20037	331650.00
45	60	MHSP225MAG2	MHCRTQS20045	426790.00
55	75	MHSP250MAG2	MHCRTRS20055	576020.00
75	100	MHSP280SAG2	MHCRTSS20075	755790.00
90	120	MHSP280MAG2	MHCRTTS20090	872640.00

## 4 Pole -1500 rev/min

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.55	0.75	MHSP80ZAG4	MHCRTDS40X55	19580.00
0.75	1	MHSP80ZBG4	MHCRTDS40X75	20230.00
1.1	1.5	MHSP90SAG4	MHCRTES401X1	25170.00
1.5	2	MHSP90LAG4	MHCRTFS401X5	29410.00
2.2	3	MHSP100LAG4	MHCRTGS402X2	35910.00
3.7	5	MHSP112MAG4	MHCRTHS403X7	45960.00
5.5	7.5	MHSP132SAG4	MHCRTIS405X5	66330.00
7.5	10	MHSP132MAG4	MHCRTJS407X5	76820.00
9.3	12.5	MHSP160MAG4	MHCRTKS409X3	118600.00
11	15	MHSP160MBG4	MHCRTKS40011	121520.00
15	20	MHSP160LAG4	MHCRTLS40015	146480.00
18.5	25	MHSP180MAG4	MHCRTMS418X5	181740.00
22	30	MHSP180LAG4	MHCRTNS40022	198320.00
30	40	MHSP200LAG4	MHCRTOS40030	267840.00
37	50	MHSP225SAG4	MHCRTPS40037	329620.00
45	60	MHSP225MAG4	MHCRTQS40045	396360.00
55	75	MHSP250MBG4	MHCRTRS40055	533150.00
75	100	MHSP280SAG4	MHCRTSS40075	692810.00
90	120	MHSP280MAG4	MHCRTTS40090	803670.00

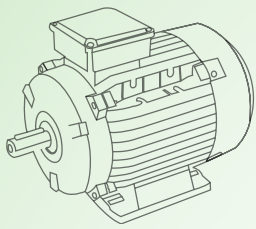
## 6 Pole -1000 rev/min

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.37	0.5	MHSP80ZAG6	MHCRTDS60X37	21120.00
0.55	0.75	MHSP80ZBG6	MHCRTDS60X55	21700.00
0.75	1	MHSP90SAG6	MHCRTES60X75	25830.00
1.1	1.5	MHSP90LAG6	MHCRTFS601X1	28950.00
1.5	2	MHSP100LAG6	MHCRTGS601X5	40370.00
2.2	3	MHSP112MAG6	MHCRTHS602X2	46230.00
3.7	5	MHSP132SAG6	MHCRTIS603X7	68770.00
5.5	7.5	MHSP132MAG6	MHCRTJS605X5	84200.00
7.5	10	MHSP160MAG6	MHCRTKS607X5	118670.00
9.3	12.5	MHSP160LAG6	MHCRTLS609X3	138240.00
11	15	MHSP160LBG6	MHCRTLS60011	146880.00
15	20	MHSP180LAG6	MHCRTNS60015	187480.00
18.5	25	MHSP200LAG6	MHCRTOS618X5	260530.00
22	30	MHSP200LBG6	MHCRTOS60022	281480.00
30	40	MHSP225MAG6	MHCRTQS60030	389220.00
37	50	MHSP250MAG6	MHCRTRS60037	542270.00
45	60	MHSP280SAG6	MHCRTSS60045	680130.00
55	75	MHSP280MAG6	MHCRTTS60055	777040.00

- VPI treatment as Standard
- Dual coated copper wire as Standard
- Casting grade FG200





# Premium Efficiency - IE3

## Cast Iron

Totally Enclosed Fan Cooled (TEFC) Squirrel Cage Induction Motors - Horizontal Foot Mounted (B3)

Induction Motor suitable for continuous duty (S1), 415 V ± 10%, 3 Phase, 50 Hz ± 5%, Insulation Class 'F' with temperature rise limited to Class B, Degree of protection IP 55, Ambient of 50 °C conforming to IS 12615: 2018, IEC 60034-1

### 2 Pole -3000 rev/min

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.75	1	MHPE80ZAG2	MHCPTDS20X75	14370.00
1.1	1.5	MHPE80ZBG2	MHCPTDS201X1	15700.00
1.5	2	MHPE90SAG2	MHCPTES201X5	18260.00
2.2	3	MHPE90LAG2	MHCPTFS202X2	23390.00
3	4	MHPE100LAG2	MHCPTGS20003	27500.00
3.7	5	MHPE100LBG2	MHCPTGS203X7	29500.00
4	5.5	MHPE112MAG2	MHCPTHS20004	33550.00
5.5	7.5	MHPE132SAG2	MHCPTIS205X5	49600.00
7.5	10	MHPE132SBG2	MHCPTIS207X5	54100.00
9.3	12.5	MHPE160MAG2	MHCPTKS209X3	89500.00
11	15	MHPE160MBG2	MHCPTKS20011	92900.00
15	20	MHPE160MCG2	MHCPTKS20015	102600.00
18.5	25	MHPE160LAG2	MHCPTLS218X5	119900.00
22	30	MHPE180MAG2	MHCPTMS20022	137400.00
30	40	MHPE200LAG2	MHCPTOS20030	201270.00
37	50	MHPE200LAG2	MHCPTOS20037	245660.00
45	60	MHPE225MAG2	MHCPTQS20045	316140.00
55	75	MHPE250MAG2	MHCPTRS20055	426680.00
75	100	MHPE280SAG2	MHCPTSS20075	559840.00
90	120	MHPE280MAG2	MHCPTTS20090	646400.00
110	150	MHPE315SAG2	MHCPTUS20110	791430.00
132	180	MHPE315MAG2	MHCPTVS20132	970930.00
160	215	MHPE315LAG2	MHCPTWS20160	1065830.00
180	240	MHPE315LBG2	MHCPTWS20180	1131080.00
200	270	MHPE315LCG2	MHCPTWS20200	1236490.00
225	300	MHPE355MAG2	MHCPTY20225	1365130.00
250	335	MHPE355MBG2	MHCPTY20250	1444980.00
275	370	MHPE355LAG2	MHCPTZS20275	1488050.00
315	425	MHPE355LBG2	MHCPTZS20315	1566560.00

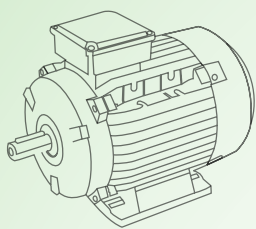
### 4 Pole -1500 rev/min

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.55	0.75	MHPE80ZAG4	MHCPTDS40X55	14500.00
0.75	1	MHPE80ZBG4	MHCPTDS40X75	14980.00
1.1	1.5	MHPE90SAG4	MHCPTES401X1	18640.00
1.5	2	MHPE90LAG4	MHCPTFS401X5	21780.00
2.2	3	MHPE100LAG4	MHCPTGS402X2	26600.00
3	4	MHPE100LAG4	MHCPTGS40003	28550.00
3.7	5	MHPE112MAG4	MHCPTHS403X7	34040.00
4	5.5	MHPE112MBG4	MHCPTHS40004	35700.00
5.5	7.5	MHPE132SAG4	MHCPTIS405X5	49130.00
7.5	10	MHPE132MAG4	MHCPTJS407X5	56900.00
9.3	12.5	MHPE160MAG4	MHCPTKS409X3	87850.00
11	15	MHPE160MBG4	MHCPTKS40011	90010.00
15	20	MHPE160LAG4	MHCPTLS40015	108500.00
18.5	25	MHPE180MAG4	MHCPTMS418X5	134620.00
22	30	MHPE180LAG4	MHCPTNS40022	146900.00
30	40	MHPE200LAG4	MHCPTOS40030	198400.00
37	50	MHPE225SAG4	MHCPTPS40037	244160.00
45	60	MHPE225MAG4	MHCPTQS40045	293600.00
55	75	MHPE250MAG4	MHCPTRS40055	394920.00
75	100	MHPE280SAG4	MHCPTSS40075	513190.00
90	120	MHPE280MAG4	MHCPTTS40090	595310.00
110	150	MHPE315SAG4	MHCPTUS40110	693940.00
125	170	MHPE315MAG4	MHCPTVS40125	811500.00
132	180	MHPE315MBG4	MHCPTVS40132	817270.00
150	200	MHPE315LAG4	MHCPTWS40150	1036500.00
160	215	MHPE315LAG4	MHCPTWS40160	1043310.00
180	240	MHPE315LBG4	MHCPTWS40180	1157390.00
200	270	MHPE315LCG4	MHCPTWS40200	1160750.00
225	300	MHPE355MAG4	MHCPTY20225	1447900.00
250	335	MHPE355MBG4	MHCPTY20250	1477990.00
275	370	MHPE355MCG4	MHCPTY20275	1564490.00
315	425	MHPE355LAG4	MHCPTZS40315	1695580.00

- VPI treatment as Standard
- Dual coated copper wire as Standard
- Casting grade FG200





# Premium Efficiency - IE3

## Cast Iron

Totally Enclosed Fan Cooled (TEFC) Squirrel Cage Induction Motors - Horizontal Foot Mounted (B3)

Induction Motor suitable for continuous duty (S1), 415 V  $\pm$  10%, 3 Phase, 50 Hz  $\pm$  5%, Insulation Class 'F' with temperature rise limited to Class B, Degree of protection IP 55, Ambient of 50 °C conforming to IS 12615: 2018, IEC 60034-1

### 6 Pole -1000 rev/min

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.37	0.5	MHPE80ZAG6	MHCPTDS60X37	15640.00
0.55	0.75	MHPE80ZBG6	MHCPTDS60X55	16070.00
0.75	1	MHPE90SAG6	MHCPTES60X75	19130.00
1.1	1.5	MHPE90LAG6	MHCPTFS601X1	21440.00
1.5	2	MHPE100LAG6	MHCPTGS601X5	29900.00
2.2	3	MHPE112MAG6	MHCPTHS602X2	34240.00
3	4	MHPE112MBG6	MHCPTHS60003	35580.00
3.7	5	MHPE132SAG6	MHCPTIS603X7	50940.00
4	5.5	MHPE132SBG6	MHCPTIS60004	52700.00
5.5	7.5	MHPE132MAG6	MHCPTJS605X5	62370.00
7.5	10	MHPE160MAG6	MHCPTKS607X5	87900.00
9.3	12.5	MHPE160LAG6	MHCPTLS609X3	102400.00
11	15	MHPE160LBG6	MHCPTLS60011	108800.00
15	20	MHPE180LAG6	MHCPTNS60015	138870.00
18.5	25	MHPE200LAG6	MHCPTOS618X5	192980.00
22	30	MHPE200LBG6	MHCPTOS60022	208500.00
30	40	MHPE225MAG6	MHCPTQS60030	288310.00
37	50	MHPE250MAG6	MHCPTRS60037	401680.00
45	60	MHPE280SAG6	MHCPTSS60045	503800.00
55	75	MHPE280MAG6	MHCPTTS60055	575580.00
75	100	MHPE315SAG6	MHCPTUS60075	711660.00
90	120	MHPE315MAG6	MHCPTVS60090	835000.00
110	150	MHPE315MBG6	MHCPTVS60110	931240.00
132	180	MHPE315LAG6	MHCPTWS60132	1089350.00
160	215	MHPE315LBG6	MHCPTWS60160	1163460.00
180	240	MHPE355MBG6	MHCPTY60180	1450500.00
200	270	MHPE355MCG6	MHCPTY60200	1496520.00
250	335	MHPE355LAG6	MHCPTZS60250	1684430.00
315	425	MHPE355LBG6	MHCPTZS60315	2065220.00

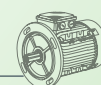
### 8 Pole -750 rev/min

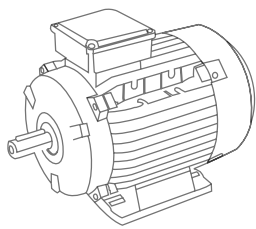
HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.37	0.5	MHPE90SAG8	MHCPTES80X37	18950.00
0.55	0.75	MHPE90LBG8	MHCPTFS80X55	20740.00
0.75	1	MHPE100LAG8	MHCPTGS80X75	25500.00
1.1	1.5	MHPE100LBG8	MHCPTGS801X1	31060.00
1.5	2	MHPE112MAG8	MHCPTHS801X5	35960.00
2.2	3	MHPE132SBG8	MHCPTIS802X2	47610.00
3	4	MHPE132MAG8	MHCPTJS80003	58700.00
3.7	5	MHPE160MAG8	MHCPTKS803X7	77420.00
5.5	7.5	MHPE160MBG8	MHCPTKS805X5	101160.00
7.5	10	MHPE160LAG8	MHCPTLS807X5	117490.00
9.3	12.5	MHPE180LAG8	MHCPTNS809X3	146130.00
11	15	MHPE180LBG8	MHCPTNS80011	154120.00
15	20	MHPE200LAG8	MHCPTOS80015	216970.00
18.5	25	MHPE225SAG8	MHCPTPS818X5	278450.00
22	30	MHPE225MBG8	MHCPTQS80022	334710.00
30	40	MHPE250MAG8	MHCPTRS80030	451950.00
37	50	MHPE280SAG8	MHCPTSS80037	603060.00
45	60	MHPE280MAG8	MHCPTTS80045	677790.00
55	75	MHPEE315SAG8	MHCPTUS80055	767580.00
75	100	MHPE315MAG8	MHCPTVS80075	953100.00
90	120	MHPE315LAG8	MHCPTWS80090	1188570.00
110	150	MHPE315LBG8	MHCPTWS80110	1258270.00
132	180	MHPE355MAG8	MHCPTY80132	POR
160	215	MHPE355MBG8	MHCPTY80160	1693750.00
180	240	MHPE355LAG8	MHCPTZS80180	POR
200	270	MHPE355LBG8	MHCPTZS80200	POR

POR = Price on request

- VPI treatment as Standard
- Dual coated copper wire as Standard
- Casting grade FG200





# High Efficiency - IE2

## Cast Iron

Totally Enclosed Fan Cooled (TEFC) Squirrel Cage Induction Motors - Horizontal Foot Mounted (B3)

Induction Motor suitable for continuous duty (S1), 415 V  $\pm$  10%, 3 Phase, 50 Hz  $\pm$  5%, Insulation Class 'F' with temperature rise limited to Class B, Degree of protection IP 55, Ambient of 50 °C conforming to IS 12615: 2018, IEC 60034-1

### 2 Pole -3000 rev/min

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.75	1	MHHE80ZAG2	MHCITDS20X75	12810.00
1.1	1.5	MHHE80ZBG2	MHCITDS201X1	13950.00
1.5	2	MHHE90SAG2	MHCITES201X5	16560.00
2.2	3	MHHE90LAG2	MHCITFS202X2	20740.00
3	4	MHHE100LAG2	MHCITGS20003	24330.00
3.7	5	MHHE100LBG2	MHCITGS203X7	25690.00
4	5.5	MHHE112MAG2	MHCITHS20004	30130.00
5.5	7.5	MHHE112MBG2	MHCITHS205X5	37500.00
5.5	7.5	MHHE132SAG2	MHCITIS205X5	44980.00
7.5	10	MHHE132SBG2	MHCITIS207X5	49200.00
9.3	12.5	MHHE132MAG2	MHCITJS209X3	69970.00
9.3	12.5	MHHE160MAG2	MHCITKS209X3	81340.00
11	15	MHHE160MBG2	MHCITKS20011	84470.00
15	20	MHHE160MCG2	MHCITKS20015	91820.00
18.5	25	MHHE160LAG2	MHCITLS218X5	118000.00
22	30	MHHE180MAG2	MHCITMS20022	131800.00
30	40	MHHE200LAG2	MHCITOS20030	181120.00
37	50	MHHE200LBG2	MHCITOS20037	211820.00
45	60	MHHE225MAG2	MHCITQS20045	272530.00
55	75	MHHE250MAG2	MHCITRS20055	384880.00
75	100	MHHE280SAG2	MHCITSS20075	482840.00
90	120	MHHE280MAG2	MHCITTS20090	559670.00
110	150	MHHE315SAG2	MHCITUS20110	745540.00
132	180	MHHE315MBG2	MHCITVS20132	920330.00
160	215	MHHE315LAG2	MHCITWS20160	1004050.00
180	240	MHHE315LBG2	MHCITWS20180	1084310.00
200	270	MHHE315LCG2	MHCITWS20200	1148310.00
225	300	MHHE355MAG2	MHCITYS20225	1354020.00
250	335	MHHE355MBG2	MHCITYS20250	1358030.00
275	370	MHHE355LAG2	MHCITZS20275	1426010.00
315	425	MHHE355LCG2	MHCITZS20315	1460250.00

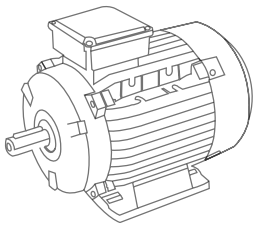
### 4 Pole -1500 rev/min

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.55	0.75	MHHE80ZAG4	MHCITDS40X55	12900.00
0.75	1	MHHE80ZBG4	MHCITDS40X75	13320.00
1.1	1.5	MHHE90SAG4	MHCITES401X1	16750.00
1.5	2	MHHE90LAG4	MHCITFS401X5	19360.00
2.2	3	MHHE100LAG4	MHCITGS402X2	24130.00
3	4	MHHE100LBG4	MHCITGS40003	25340.00
3.7	5	MHHE112MAG4	MHCITHS403X7	30690.00
4	5.5	MHHE112MBG4	MHCITHS40004	31900.00
5.5	7.5	MHHE132SAG4	MHCITIS405X5	42880.00
7.5	10	MHHE132MAG4	MHCITJS407X5	49090.00
9.3	12.5	MHHE132MBG4	MHCITJS409X3	65180.00
9.3	12.5	MHHE160MAG4	MHCITKS409X3	78390.00
11	15	MHHE160MBG4	MHCITKS40011	80290.00
15	20	MHHE160LCG4	MHCITLS40015	99900.00
18.5	25	MHHE180MAG4	MHCITMS418X5	120480.00
22	30	MHHE180LAG4	MHCITNS40022	133560.00
30	40	MHHE200LAG4	MHCITOS40030	180430.00
37	50	MHHE225SAG4	MHCITPS40037	215190.00
45	60	MHHE225MAG4	MHCITQS40045	254200.00
55	75	MHHE250MAG4	MHCITRS40055	356120.00
75	100	MHHE280SAG4	MHCITSS40075	449350.00
90	120	MHHE280MAG4	MHCITTS40090	523410.00
110	150	MHHE315SAG4	MHCITUS40110	653770.00
125	170	MHHE315MAG4	MHCITVS40125	755500.00
132	180	MHHE315MBG4	MHCITVS40132	761340.00
150	200	MHHE315LAG4	MHCITWS40150	894500.00
160	215	MHHE315LBG4	MHCITWS40160	900810.00
180	240	MHHE315LCG4	MHCITWS40180	970530.00
200	270	MHHE315LDG4	MHCITWS40200	1005610.00
225	300	MHHE355MAG4	MHCITYS40225	1267770.00
250	335	MHHE355MBG4	MHCITYS40250	1323010.00
275	370	MHHE355MCG4	MHCITYS40275	1430350.00
315	425	MHHE355LAG4	MHCITZS40315	1586830.00

- Frame size 160 & above VPI treatment as Standard
- All 2 Pole Motors VPI treatment as Standard
- Dual coated copper wire as Standard
- Casting grade FG200





# High Efficiency - IE2

Cast Iron

Totally Enclosed Fan Cooled (TEFC) Squirrel Cage Induction Motors - Horizontal Foot Mounted (B3)

Induction Motor suitable for continuous duty (S1), 415 V ± 10%, 3 Phase, 50 Hz ± 5%, Insulation Class 'F' with temperature rise limited to Class B, Degree of protection IP 55, Ambient of 50 °C conforming to IS 12615: 2018, IEC 60034-1

## 6 Pole -1000 rev/min

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.37	0.5	MHHE80ZAG6	MHCITDS60X37	14200.00
0.55	0.75	MHHE80ZBG6	MHCITDS60X55	14570.00
0.75	1	MHHE90SAG6	MHCITES60X75	16620.00
1.1	1.5	MHHE90LAG6	MHCITFS601X1	18230.00
1.5	2	MHHE100LAG6	MHCITGS601X5	25410.00
2.2	3	MHHE112MAG6	MHCITHS602X2	29010.00
3	4	MHHE112MBG6	MHCITHS60003	31900.00
3.7	5	MHHE132SAG6	MHCITIS603X7	45950.00
4	5.5	MHHE132SBG6	MHCITIS60004	47700.00
5.5	7.5	MHHE132MAG6	MHCITJS605X5	53950.00
7.5	10	MHHE160MBG6	MHCITKS607X5	79860.00
9.3	12.5	MHHE160LAG6	MHCITLS609X3	93110.00
11	15	MHHE160LBG6	MHCITLS60011	98740.00
15	20	MHHE180LAG6	MHCITNS60015	121290.00
18.5	25	MHHE200LAG6	MHCITOS618X5	167910.00
22	30	MHHE200LBG6	MHCITOS60022	178690.00
30	40	MHHE225MAG6	MHCITQS60030	257270.00
37	50	MHHE250MBG6	MHCITRS60037	349900.00
45	60	MHHE280SAG6	MHCITSS60045	431000.00
55	75	MHHE280MBG6	MHCITTS60055	494950.00
75	100	MHHE315SAG6	MHCITUS60075	655210.00
90	120	MHHE315MAG6	MHCITVS60090	750860.00
110	150	MHHE315MBG6	MHCITVS60110	837420.00
132	180	MHHE315LAG6	MHCITWS60132	984740.00
160	215	MHHE315LBG6	MHCITWS60160	1025200.00
180	240	MHHE355MBG6	MHCITYS60180	1256960.00
200	270	MHHE355MCG6	MHCITYS60200	1296850.00
250	335	MHHE355LAG6	MHCITZS60250	1462450.00
315	425	MHHE355LBG6	MHCITZS60315	1905830.00

## 8 Pole -750 rev/min

HSN Code: 8501

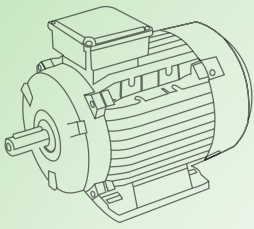
kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.37	0.5	MHHE90SAG8	MHCITES80X37	17160.00
0.55	0.75	MHHE90LAG8	MHCITFS80X55	19680.00
0.75	1	MHHE100LAG8	MHCITGS80X75	23120.00
1.1	1.5	MHHE100LBG8	MHCITGS801X1	26400.00
1.5	2	MHHE112MAG8	MHCITHS801X5	32580.00
2.2	3	MHHE132SBG8	MHCITIS802X2	45160.00
3	4	MHHE132MAG8	MHCITJS80003	53900.00
3.7	5	MHHE160MAG8	MHCITKS803X7	72610.00
5.5	7.5	MHHE160MBG8	MHCITKS805X5	86840.00
7.5	10	MHHE160LAG8	MHCITLS807X5	106460.00
9.3	12.5	MHHE180LAG8	MHCITNS809X3	132390.00
11	15	MHHE180LBG8	MHCITNS80011	139650.00
15	20	MHHE200LAG8	MHCITOS80015	193060.00
18.5	25	MHHE225SAG8	MHCITPS818X5	247750.00
22	30	MHHE225MAG8	MHCITQS80022	297830.00
30	40	MHHE250MAG8	MHCITRS80030	402140.00
37	50	MHHE280SAG8	MHCITSS80037	536600.00
45	60	MHHE280MAG8	MHCITTS80045	591840.00
55	75	MHHEE315SAG8	MHCITUS80055	714040.00
75	100	MHHE315MBG8	MHCITVS80075	848060.00
90	120	MHHE315LAG8	MHCITWS80090	1057590.00
110	150	MHHE315LBG8	MHCITWS80110	1170380.00
132	180	MHHE355MAG8	MHCITYS80132	POR
160	215	MHHE355MBG8	MHCITYS80160	1507090.00
180	240	MHHE355LAG8	MHCITZS80180	POR
200	270	MHHE355LBG8	MHCITZS80200	POR

POR = Price on request

- Frame size 160 & above VPI treatment as Standard
- All 2 Pole Motors VPI treatment as Standard
- Dual coated copper wire as Standard
- Casting grade FG200







# Premium Efficiency - IE3

## Aluminium Frames

Totally Enclosed Fan Cooled (TEFC) Squirrel Cage Induction Motors - Horizontal Foot Mounted (B3)

Induction Motor suitable for continuous duty (S1), 415 V ± 10%, 3 Phase, 50 Hz ± 5%, Insulation Class 'F' with temperature rise limited to Class B, Degree of protection IP 55, Ambient of 50 °C conforming to IS 12615: 2018, IEC 60034-1

### 2 Pole -3000 rev/min

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.18	0.25	MHPE63ZAA2	MHHPTBS20X18	10640.00
0.25	0.33	MHPE63ZBA2	MHHPTBS20X25	10800.00
0.37	0.5	MHPE71ZAA2	MHHPTCS20X37	11150.00
0.55	0.75	MHPE71ZBA2	MHHPTCS20X55	12960.00
0.75	1	MHPE80ZAA2	MHHPTDS20X75	14370.00
1.1	1.5	MHPE80ZAA2	MHHPTDS201X1	15700.00
1.5	2	MHPE90SAA2	MHHPTES201X5	18260.00
2.2	3	MHPE90LAA2	MHHPTFS202X2	23390.00
3	4	MHPE100LAA2	MHHPTGS20003	27500.00
3.7	5	MHPE100LBA2	MHHPTGS203X7	29500.00
4	5.5	MHPE112MAA2	MHHPTHS20004	33550.00
5.5	7.5	MHPE132SAA2	MHHPTIS205X5	49600.00
7.5	10	MHPE132SBA2	MHHPTIS207X5	54100.00

### 4 Pole -1500 rev/min

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.18	0.25	MHPE63ZAA4	MHHPTBS40X18	10800.00
0.25	0.33	MHPE71ZAA4	MHHPTCS40X25	11090.00
0.37	0.5	MHPE71ZBA4	MHHPTCS40X37	11550.00
0.55	0.75	MHPE80ZAA4	MHHPTDS40X55	14500.00
0.75	1	MHPE80ZAA4	MHHPTDS40X75	14980.00
1.1	1.5	MHPE90SA4	MHHPTES401X1	18640.00
1.5	2	MHPE90LA4	MHHPTFS401X5	21780.00
2.2	3	MHPE100LA4	MHHPTGS402X2	26600.00
3	4	MHPE100LA4	MHHPTGS40003	28550.00
3.7	5	MHPE112MA4	MHHPTHS403X7	34040.00
4	5.5	MHPE112MA4	MHHPTHS40004	35700.00
5.5	7.5	MHPE132SAA4	MHHPTIS405X5	49130.00
7.5	10	MHPE132MAA4	MHHPTJS407X5	56900.00

### 6 Pole -1000 rev/min

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.18	0.25	MHPE71ZAA6	MHHPTCS60X18	14470.00
0.25	0.33	MHPE71ZBA6	MHHPTCS60X25	15260.00
0.37	0.5	MHPE80ZAA6	MHHPTDS60X37	15640.00
0.55	0.75	MHPE80ZBA6	MHHPTDS60X55	16070.00
0.75	1	MHPE90SAA6	MHHPTES60X75	19130.00
1.1	1.5	MHPE90LBA6	MHHPTFS601X1	21440.00
1.5	2	MHPE100LAA6	MHHPTGS601X5	29900.00
2.2	3	MHPE112MAA6	MHHPTHS602X2	34240.00
3	4	MHPE112MBA6	MHHPTHS60003	35580.00
3.7	5	MHPE132SAA6	MHHPTIS603X7	50940.00
4	5.5	MHPE132SBA6	MHHPTIS60004	52700.00
5.5	7.5	MHPE132MAA6	MHHPTJS605X5	62370.00

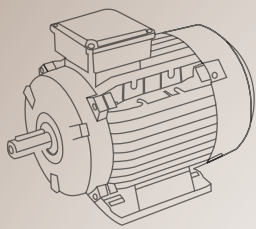
### 8 Pole -750 rev/min

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.37	0.5	MHPE90SAA8	MHHPTES80X37	18950.00
0.55	0.75	MHPE90LAA8	MHHPTFS80X55	20740.00
0.75	1	MHPE100LAA8	MHHPTGS80X75	25500.00
1.1	1.5	MHPE100LBA8	MHHPTGS801X1	31060.00
1.5	2	MHPE112MAA8	MHHPTHS801X5	35960.00
2.2	3	MHPE132SBA8	MHHPTIS802X2	47610.00
3	4	MHPE132MAA8	MHHPTJS80003	58700.00

- All Motors VPI treatment as Standard
- Dual coated copper wire as Standard





# High Efficiency - IE2

## Aluminium Frames

Totally Enclosed Fan Cooled (TEFC) Squirrel Cage Induction Motors - Horizontal Foot Mounted (B3)

Induction Motor suitable for continuous duty (S1), 415 V  $\pm$  10%, 3 Phase, 50 Hz  $\pm$  5%, Insulation Class 'F' with temperature rise limited to Class B, Degree of protection IP 55, Ambient of 50 °C conforming to IS 12615: 2018, IEC 60034-1

### 2 Pole -3000 rev/min

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.18	0.25	MHHE63ZAA2	MHHITBS20X18	9280.00
0.25	0.33	MHHE63ZBA2	MHHITBS20X25	9410.00
0.37	0.5	MHHE71ZAA2	MHHITCS20X37	9550.00
0.55	0.75	MHHE71ZBA2	MHHITCS20X55	11520.00
0.75	1	MHHE80ZAA2	MHHITDS20X75	12810.00
1.1	1.5	MHHE80ZBA2	MHHITDS201X1	13950.00
1.5	2	MHHE90SAA2	MHHITES201X5	16560.00
2.2	3	MHHE90LAA2	MHHITFS202X2	20740.00
3	4	MHHE100LAA2	MHHITGS20003	24330.00
3.7	5	MHHE100LBA2	MHHITGS203X7	25690.00
4	5.5	MHHE112MAA2	MHHITHS20004	30130.00
5.5	7.5	MHHE112MBA2	MHHITHS205X5	37500.00
5.5	7.5	MHHE132SAA2	MHHITIS205X5	44980.00
7.5	10	MHHE132SBA2	MHHITIS207X5	49200.00
9.3	12.5	MHHE132MAA2	MHHITJS209X3	69970.00

### 4 Pole -1500 rev/min

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.18	0.25	MHHE63ZAA4	MHHITBS40X18	9410.00
0.25	0.33	MHHE71ZAA4	MHHITCS40X25	9660.00
0.37	0.50	MHHE71ZBA4	MHHITCS40X37	10050.00
0.55	0.75	MHHE80ZAA4	MHHITDS40X55	13150.00
0.75	1	MHHE80ZBA4	MHHITDS40X75	13320.00
1.1	1.5	MHHE90SAA4	MHHITES401X1	16750.00
1.5	2	MHHE90LAA4	MHHITFS401X5	19360.00
2.2	3	MHHE100LAA4	MHHITGS402X2	24130.00
3	4	MHHE100LBA4	MHHITGS40003	25340.00
3.7	5	MHHE112MAA4	MHHITHS403X7	30690.00
4	5.5	MHHE112MBA4	MHHITHS40004	31900.00
5.5	7.5	MHHE132SAA4	MHHITIS405X5	42880.00
7.5	10	MHHE132MAA4	MHHITJS407X5	49090.00
9.3	12.5	MHHE132MBA4	MHHITJS409X3	65180.00

### 6 Pole -1000 rev/min

HSN Code: 8501

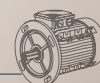
kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.18	0.25	MHHE71ZAA6	MHHITCS60X18	12580.00
0.25	0.33	MHHE71ZBA6	MHHITCS60X25	13280.00
0.37	0.5	MHHE80ZAA6	MHHITDS60X37	14200.00
0.55	0.75	MHHE80ZBA6	MHHITDS60X55	14570.00
0.75	1	MHHE90SAA6	MHHITES60X75	16620.00
1.1	1.5	MHHE90LAA6	MHHITFS601X1	18230.00
1.5	2	MHHE100LAA6	MHHITGS601X5	25410.00
2.2	3	MHHE112MAA6	MHHITHS602X2	29010.00
3	4	MHHE112MBA6	MHHITHS60003	31900.00
3.7	5	MHHE132SAA6	MHHITIS603X7	45950.00
4	5.5	MHHE132SBA6	MHHITIS60004	47700.00
5.5	7.5	MHHE132MAA6	MHHITJS605X5	53950.00

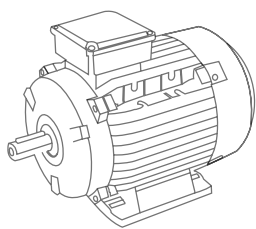
### 8 Pole -750 rev/min

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.37	0.5	MHHE90SAA8	MHHITES80X37	17160.00
0.55	0.75	MHHE90LAA8	MHHITFS80X55	19680.00
0.75	1	MHHE100LAA8	MHHITGS80X75	23120.00
1.1	1.5	MHHE100LBA8	MHHITGS801X1	26400.00
1.5	2	MHHE112MAA8	MHHITHS801X5	32580.00
2.2	3	MHHE132SBA8	MHHITIS802X2	45160.00
3	4	MHHE132MAA8	MHHITJS80003	53900.00

- All 2 Pole Motors VPI treatment as Standard
- Dual coated copper wire as Standard





# High Efficiency - IE2

## Brake Motor

Totally Enclosed Fan Cooled (TEFC) Squirrel Cage Induction Motors - Horizontal Foot Mounted (B3)

Induction Motor suitable for continuous duty (S1), 415 V  $\pm$  10%, 3 Phase, 50 Hz  $\pm$  5%, Insulation Class 'F' with temperature rise limited to Class B, Degree of protection IP 55, Ambient of 50 °C conforming to IS 12615: 2018, IEC 60034-1

### 2 Pole -3000 rev/min

HSN Code: 8501

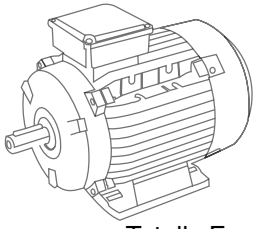
kW	HP	Braking Torque (Nm)	Brake Safety Factor	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.18	0.25	5	8.0	MHBE63ZAA2	MHBITBS20X18	24260.00
0.25	0.33	5	5.8	MHBE63ZBA2	MHBITBS20X25	24390.00
0.37	0.5	5	4.0	MHBE71ZAA2	MHBITCS20X37	24530.00
0.55	0.75	5	2.7	MHBE71ZBA2	MHBITCS20X55	26500.00
0.75	1	10	4.0	MHBE80ZAG2	MHBITDS20X75	29730.00
1.1	1.5	10	2.7	MHBE80ZAG2	MHBITDS201X1	30870.00
1.5	2	16	3.2	MHBE90SAG2	MHBITES201X5	36190.00
2.2	3	16	2.2	MHBE90LAG2	MHBITFS202X2	40370.00
3	4	35	3.5	MHBE100LAG2	MHBITGS20003	51220.00
3.7	5	35	2.9	MHBE100LBG2	MHBITGS203X7	52580.00
4	5.5	35	2.6	MHBE112MAG2	MHBITHS20004	57020.00
5.5	7.5	35	1.9	MHBE112MBG2	MHBITHS205X5	64390.00
5.5	7.5	60	3.3	MHBE132SAG2	MHBITIS205X5	76480.00
7.5	10	60	2.4	MHBE132SBG2	MHBITIS207X5	80700.00
9.3	12.5	80	2.6	MHBE132MAG2	MHBITJS209X3	109520.00
9.3	12.5	80	2.6	MHBE160MAG2	MHBITKS209X3	120890.00
11	15	80	2.2	MHBE160MBG2	MHBITKS20011	124020.00
15	20	100	2.0	MHBE160MCG2	MHBITKS20015	141320.00
18.5	25	150	2.5	MHBE160LAG2	MHBITLS218X5	181160.00
22	30	150	2.1	MHBE180MAG2	MHBITMS20022	194960.00
30	40	260	2.7	MHBE200LAG2	MHBITOS20030	272110.00
37	50	260	2.2	MHBE200LBG2	MHBITOS20037	302810.00

### 4 Pole -1500 rev/min

HSN Code: 8501

kW	HP	Braking Torque (Nm)	Brake Safety Factor	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.18	0.25	5	3.9	MHBE63ZAA4	MHBITBS40X18	24390.00
0.25	0.33	5	2.8	MHBE71ZAA4	MHBITCS40X25	24640.00
0.37	0.5	5	2.0	MHBE71ZBA4	MHBITCS40X37	25030.00
0.55	0.75	10	2.7	MHBE80ZAG4	MHBITDS40X55	29820.00
0.75	1	10	2.0	MHBE80ZBG4	MHBITDS40X75	30240.00
1.1	1.5	16	2.2	MHBE90SAG4	MHBITES401X1	36380.00
1.5	2	35	3.5	MHBE90LAG4	MHBITFS401X5	46250.00
2.2	3	35	2.4	MHBE100LAG4	MHBITGS402X2	51020.00
3	4	60	3.0	MHBE100LBG4	MHBITGS40003	56840.00
3.7	5	60	2.5	MHBE112MAG4	MHBITHS403X7	62190.00
4	5.5	60	2.3	MHBE112MBG4	MHBITHS40004	63400.00
5.5	7.5	80	2.2	MHBE132SAG4	MHBITIS405X5	82430.00
7.5	10	100	2.0	MHBE132MAG4	MHBITJS407X5	98590.00
9.3	12.5	150	2.4	MHBE132MBG4	MHBITJS409X3	128340.00
9.3	12.5	150	2.5	MHBE160MAG4	MHBITKS409X3	141550.00
11	15	150	2.1	MHBE160MBG4	MHBITKS40011	143450.00
15	20	260	2.6	MHBE160LCG4	MHBITLS40015	190890.00
18.5	25	260	2.1	MHBE180MAG4	MHBITMS418X5	211470.00
22	30	400	2.8	MHBE180LAG4	MHBITNS40022	274080.00
30	40	400	2.0	MHBE200LAG4	MHBITOS40030	320950.00





# High Efficiency - IE2

## Brake Motor

Totally Enclosed Fan Cooled (TEFC) Squirrel Cage Induction Motors - Horizontal Foot Mounted (B3)

Induction Motor suitable for continuous duty (S1), 415 V  $\pm$  10%, 3 Phase, 50 Hz  $\pm$  5%, Insulation Class 'F' with temperature rise limited to Class B, Degree of protection IP 55, Ambient of 50 °C conforming to IS 12615: 2018, IEC 60034-1

### 6 Pole - 1000 rev/min

HSN Code: 8501

kW	HP	Braking Torque (Nm)	Brake Safety Factor	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.18	0.25	5	2.5	MHBE71ZAA6	MHBITCS60X18	27560.00
0.25	0.33	5	1.8	MHBE71ZBA6	MHBITCS60X25	28260.00
0.37	0.5	10	2.6	MHBE80ZAG6	MHBITDS60X37	31120.00
0.55	0.75	10	1.7	MHBE80ZBG6	MHBITDS60X55	31490.00
0.75	1	16	2.0	MHBE90SAG6	MHBITES60X75	36250.00
1.1	1.5	35	3.0	MHBE90LAG6	MHBITFS601X1	45120.00
1.5	2	35	2.3	MHBE100LAG6	MHBITGS601X5	52300.00
2.2	3	60	2.7	MHBE112MAG6	MHBITHS602X2	60510.00
3	4	60	1.9	MHBE112MBG6	MHBITHS60003	63400.00
3.7	5	80	2.2	MHBE132SAG6	MHBITIS603X7	85500.00
4	5.5	80	2.0	MHBE132SBG6	MHBITIS60004	87250.00
5.5	7.5	150	2.8	MHBE132MAG6	MHBITJS605X5	117110.00
7.5	10	150	2.0	MHBE160MBG6	MHBITKS607X5	143020.00
9.3	12.5	260	2.7	MHBE160LAG6	MHBITLS609X3	184100.00
11	15	260	2.4	MHBE160LBG6	MHBITLS60011	189730.00
15	20	400	2.7	MHBE180LAG6	MHBITNS60015	261810.00
18.5	25	400	2.2	MHBE200LAG6	MHBITOS618X5	308430.00
22	30	400	1.9	MHBE200LBG6	MHBITOS60022	319210.00

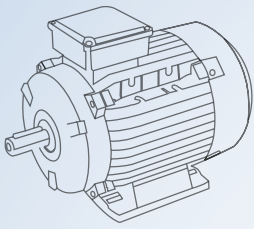
### 8 Pole - 750 rev/min

HSN Code: 8501

kW	HP	Braking Torque (Nm)	Brake Safety Factor	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.37	0.5	16	3.0	MHBE90SAG8	MHBITES80X37	36790.00
0.55	0.75	16	2.0	MHBE90LAG8	MHBITFS80X55	39310.00
0.75	1	35	3.3	MHBE100LAG8	MHBITGS80X75	50010.00
1.1	1.5	35	2.3	MHBE100LBG8	MHBITGS801X1	53290.00
1.5	2	60	2.9	MHBE112MAG8	MHBITHS801X5	64080.00
2.2	3	80	2.7	MHBE132SBG8	MHBITIS802X2	84710.00
3	4	80	2.0	MHBE132MAG8	MHBITJS80003	93450.00
3.7	5	100	2.0	MHBE160MAG8	MHBITKS803X7	122110.00
5.5	7.5	150	2.0	MHBE160MBG8	MHBITKS805X5	150000.00
7.5	10	260	2.6	MHBE160LAG8	MHBITLS807X5	197450.00
9.3	12.5	260	2.0	MHBE180LAG8	MHBITNS09X3	223380.00
11	15	400	2.7	MHBE180LBG8	MHBITNS80011	280170.00
15	20	400	2.0	MHBE200LAG8	MHBITOS80015	333580.00

- Frame Size 63 & 71 Aluminum body & frame size 80 and above are in Cast Iron body
- Brake Motor Price includes motor with brake arrangement, Brake & Rectifier
- Brake Type: 190 V, Electromagnetic DC Brake with Manual release handle
- Rectifier : 415 V AC to 190 V AC
- Brake safety factor required low / high can be offer on enquiry basis





# High Efficiency Crane Duty

(S4 - 40% CDF, 150 Starts/Hours, DOL)

Totally Enclosed Fan Cooled (TEFC) Squirrel Cage Induction Motors - Horizontal Foot Mounted (B3)

Induction Motor suitable for intermittent duty (S4), 415 V  $\pm$  10%, 3 Phase, 50 Hz  $\pm$  5%, Insulation Class 'F' with temperature rise limited to Class B, Degree of protection IP 55, Ambient of 50 °C conforming to IS 12615: 2018, IEC 60034-1

## 4 Pole -1500 rev/min

HSN Code: 8501

S4 Duty Output (40% CDF, 150 Start stop per hour)		S1 Duty output (IE2)		Frame Size	Cat. Ref.	List Price in ₹ Per Unit
kW	HP	kW	HP			
0.37	0.5	0.25	0.33	MHKE71ZAA4	MHHKTCS40X37	10390.00
0.55	0.75	0.37	0.5	MHKE71ZBA4	MHHKTCS40X55	10810.00
0.75	1	0.55	0.75	MHKE80ZAG4	MHCKTDS40X75	13870.00
1.1	1.5	0.75	1	MHKE80ZBG4	MHCKTDS401X1	14320.00
1.5	2	1.1	1.5	MHKE90SAG4	MHCKTES401X5	18010.00
2.2	3	1.5	2	MHKE90LAG4	MHCKTFS402X2	20820.00
3.7	5	2.2	3	MHKE100LAG4	MHCKTGS403X7	25940.00
5.5	7.5	3.7	5	MHKE112MAG4	MHCKTHS405X5	33000.00
7.5	10	5.5	7.5	MHKE132SAG4	MHCKTIS407X5	46100.00
9.3	12.5	7.5	10	MHKE132MAG4	MHCKTJS409X3	52780.00
11	15	9.3	12.5	MHKE160MAG4	MHCKTKS40011	84270.00
15	20	11	15	MHKE160MBG4	MHCKTKS40015	86320.00
18.5	25	15	20	MHKE160LCG4	MHCKTLS418X5	107400.00
22	30	18.5	25	MHKE180MAG4	MHCKTMS40022	129520.00
30	40	22	30	MHKE180LAG4	MHCKTNS40030	143580.00
33	44	30	40	MHKE200LAG4	MHCKTOS40033	193970.00

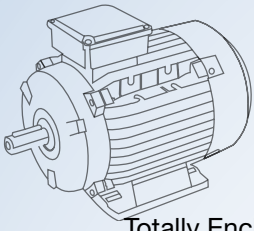
## 6 Pole -1000 rev/min

HSN Code: 8501

S4 Duty Output (40% CDF, 150 Start stop per hour)		S1 Duty output (IE2)		Frame Size	Cat. Ref.	List Price in ₹ Per Unit
kW	HP	kW	HP			
0.25	0.33	0.18	0.25	MHKE71ZAA6	MHHKTCS60X25	13530.00
0.37	0.5	0.25	0.33	MHKE71ZBA6	MHHKTCS60X37	14280.00
0.55	0.75	0.37	0.5	MHKE80ZAG6	MHCKTDS60X55	15270.00
0.75	1	0.55	0.75	MHKE80ZBG6	MHCKTDS60X75	15670.00
1.1	1.5	0.75	1	MHKE90SAG6	MHCKTES601X1	17870.00
1.5	2	1.1	1.5	MHKE90LAG6	MHCKTFS601X5	19600.00
2.2	3	1.5	2	MHKE100LAG6	MHCKTGS602X2	27320.00
3.7	5	2.2	3	MHKE112MAG6	MHCKTHS603X7	31190.00
5.5	7.5	3.7	5	MHKE132SAG6	MHCKTIS605X5	49400.00
7.5	10	5.5	7.5	MHKE132MAG6	MHCKTJS607X5	58000.00
9.3	12.5	7.5	10	MHKE160MBG6	MHCKTKS609X3	85850.00
11	15	9.3	12.5	MHKE160LAG6	MHCKTLS60011	100100.00
15	20	11	15	MHKE160LBG6	MHCKTLS60015	106150.00
18.5	25	15	20	MHKE180LAG6	MHCKTNS618X5	130390.00
22	30	18.5	25	MHKE200LAG6	MHCKTOS60022	180510.00

- Frame Size 71 Aluminum body & frame size 80 and above are in Cast Iron body
- Above motors are in progressive frame (higher output and S4 duty), standard IEC frame can be offered on request
- Crane duty motors frame size 225 and above can be offered on request





# High Efficiency Crane Duty

(S4 - 40% CDF, 150 Starts/Hours, DOL)

Totally Enclosed Fan Cooled (TEFC) Squirrel Cage Induction Motors - Horizontal Foot Mounted (B3)

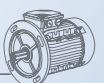
Induction Motor suitable for intermittent duty (S4), 415 V  $\pm$  10%, 3 Phase, 50 Hz  $\pm$  5%, Insulation Class 'F' with temperature rise limited to Class B, Degree of protection IP 55, Ambient of 50 °C conforming to IS 12615: 2018, IEC 60034-1

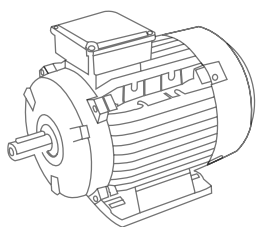
**8 Pole -750 rev/min**

**HSN Code: 8501**

S4 Duty Output (40% CDF, 150 Start stop per hour)		S1 Duty output (IE2)		Frame Size	Cat. Ref.	List Price in ₹ Per Unit
kW	HP	kW	HP			
0.37	0.5	0.37	0.5	MHKE90SAG8	MHCKTES80X37	18450.00
0.55	0.75	0.37	0.5	MHKE90SAG8	MHCKTES80X55	18450.00
0.75	1	0.55	0.75	MHKE90LAG8	MHCKTFS80X75	21160.00
1.1	1.50	0.75	1	MHKE100LAG8	MHCKTGS801X1	24860.00
1.5	2	1.1	1.5	MHKE100LBG8	MHCKTGS801X5	28380.00
2.2	3.0	1.5	2	MHKE112MAG8	MHCKTHS802X2	35030.00
3.7	5	2.2	3	MHKE132SBG8	MHCKTIS803X7	48550.00
5.5	7.5	3.7	5	MHKE160MAG8	MHCKTKS805X5	78060.00
7.5	10	5.5	7.5	MHKE160MBG8	MHCKTKS807X5	93360.00
9.3	12.5	7.5	10	MHKE160LAG8	MHCKTLS809X3	114450.00
11	15	9.3	12.5	MHKE180LAG8	MHCKTNS80011	142320.00
15	20	11	15	MHKE180LBG8	MHCKTNS80015	150130.00
17	25	15	20	MHKE200LAG8	MHCKTOS80017	207540.00

- Frame Size 71 Aluminum body & frame size 80 and above are in Cast Iron body
- Above motors are in progressive frame (higher output and S4 duty), standard IEC frame can be offered
- Crane duty motors frame size 225 and above can be offered on request





# High Efficiency Crane Duty Brake Motor

(S4 - 40% CDF, 150 Starts/Hours, DOL, with DC Brake)

Totally Enclosed Fan Cooled (TEFC) Squirrel Cage Induction Motors - Foot Mounted (B3)

Induction Motor suitable for intermittent duty (S4) for operations on 415 V  $\pm$  10%, 3 Phase, 50 Hz  $\pm$  5%, Insulation Class 'F' with temperature rise limited to Class B, Degree of protection IP 55, Ambient of 50 °C conforming to IS 12615: 2018, IEC 60034-1

## 4 Pole -1500 rev/min

HSN Code: 8501

S4 Duty Output (40% CDF, 150 Start stop per hour)		S1 Duty output (IE2)		Braking Torque (Nm)	Brake Safety Factor	Frame Size	Cat. Ref.	List Price in ₹ Per Unit
kW	HP	kW	HP					
0.37	0.5	0.25	0.33	5	2.0	MHBK71ZAA4	MHBKTCS40X37	25370.00
0.55	0.75	0.55	0.75	10	2.6	MHBK80ZAG4	MHBKTDS40X55	30790.00
0.75	1	0.55	0.75	10	2.0	MHBK80ZAG4	MHBKTDS40X75	31300.00
1.1	1.5	1.1	1.5	16	2.1	MHBK90SAG4	MHBKTES401X1	37640.00
1.5	2	1.5	2	35	3.5	MHBK90LAG4	MHBKTFS401X5	47710.00
2.2	3	1.5	2	35	2.4	MHBK90LAG4	MHBKTFS402X2	48300.00
3.7	5	2.2	3	60	2.4	MHBK100LAG4	MHBKTGS403X7	57440.00
5.5	7.5	5.5	7.5	80	2.2	MHBK132SAG4	MHBKTIS405X5	85650.00
7.5	10	5.5	7.5	100	2.0	MHBK132SAG4	MHBKTIS407X5	95600.00
9.3	12.5	7.5	10	150	2.4	MHBK132MAG4	MHBKTJS409X3	115940.00
11	15	9.3	12.5	150	2.1	MHBK160MAG4	MHBKTKS40011	147430.00
15	20	11	15	260	2.6	MHBK160MBG4	MHBKTGS40015	177310.00
18.5	25	15	20	260	2.1	MHBK160LCG4	MHBKTLS418X5	198390.00
22	30	18.5	25	400	2.8	MHBK180MAG4	MHBKTMS40022	270060.00
30	40	22	30	400	2.0	MHBK180LAG4	MHBKTNS40030	284120.00
33	44	30	40	400	1.9	MHBK200LAG4	MHBKTOS40033	334510.00

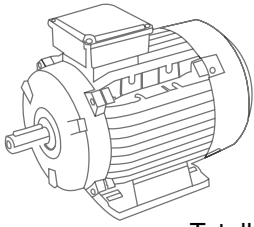
## 6 Pole -1000 rev/min

HSN Code: 8501

S4 Duty Output (40% CDF, 150 Start stop per hour)		S1 Duty output (IE2)		Braking Torque (Nm)	Brake Safety Factor	Frame Size	Cat. Ref.	List Price in ₹ Per Unit
kW	HP	kW	HP					
0.25	0.33	0.18	0.25	5	1.8	MHBK71ZAA6	MHBKTCS60X25	28510.00
0.37	0.5	0.37	0.5	10	2.6	MHBK80ZAG6	MHBKTDS60X37	32190.00
0.55	0.75	0.55	0.75	16	2.8	MHBK80ZBG6	MHBKTDS60X55	35300.00
0.75	1	0.75	1	16	2.0	MHBK90SAG6	MHBKTES60X75	37500.00
1.1	1.5	1.1	1.5	35	3.0	MHBK90LAG6	MHBKTFS601X1	46490.00
1.5	2	1.5	2	35	2.3	MHBK100LAG6	MHBKTGS601X5	54210.00
2.2	3	2.2	3	60	2.7	MHBK112MAG6	MHBKTHS602X2	62690.00
3.7	5	3.7	5	80	2.2	MHBK132SAG6	MHBKTIS603X7	88950.00
5.5	7.5	5.5	7.5	150	2.8	MHBK132MAG6	MHBKTJS605X5	121160.00
7.5	10	7.5	10	150	2.0	MHBK160MBG6	MHBKTGS607X5	149010.00
9.3	12.5	9.3	12.5	260	2.7	MHBK160LAG6	MHBKTLS609X3	191090.00
11	15	11	15	260	2.4	MHBK160LBG6	MHBKTLS60011	197140.00
15	20	15	20	400	2.7	MHBK180LAG6	MHBKTNS60015	270930.00
18.5	25	18.5	25	400	2.2	MHBK200LAG6	MHBKTOS618X5	321050.00
22	30	22	30	400	1.8	MHBE200LBG6	MHBKTOS60022	332640.00

- Frame Size 63 & 71 Aluminium body & frame size 80 & above are in Cast Iron body
- Brake Motor Price includes Motor with brake arrangement, Brake & Rectifier.
- Brake Type: 190 V DC, Electromagnetic DC Brake with Manual release handle.
- Rectifier : 415 V AC to 190 V AC





# High Efficiency Crane Duty Brake Motor

(S4 - 40% CDF, 150 Starts/Hours, DOL, with DC Brake)

Totally Enclosed Fan Cooled (TEFC) Squirrel Cage Induction Motors - Foot Mounted (B3)

Induction Motor suitable for intermittent duty (S4) for operations on 415 V  $\pm$  10%, 3 Phase, 50 Hz  $\pm$  5%, Insulation Class 'F' with temperature rise limited to Class B, Degree of protection IP 55, Ambient of 50 °C conforming to IS 12615: 2018, IEC 60034-1

**8 Pole - 750 rev/min**

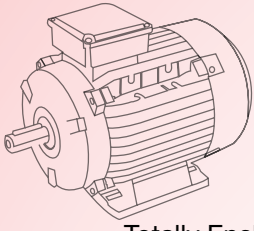
**HSN Code: 8501**

S4 Duty Output (40% CDF, 150 Start stop per hour)		S1 Duty output (IE2)		Braking Torque (Nm)	Brake Safety Factor	Frame Size	Cat. Ref.	List Price in ₹ Per Unit
kW	HP	kW	HP					
0.37	0.5	0.37	0.5	16	3.0	MHBK90SAG8	MHBKTES80X37	38080.00
0.55	0.75	0.37	0.5	16	2.0	MHBK90SAG8	MHBKTES80X55	38600.00
0.75	1	0.55	0.75	35	3.3	MHBK90LAG8	MHBKTF80X75	48050.00
1.1	1.50	0.75	1	35	2.3	MHBK100LAG8	MHBKTGS801X1	51750.00
1.5	2	1.1	1.5	60	2.9	MHBK100LBG8	MHBKTGS801X5	59880.00
2.2	3.0	1.5	2	60	2.0	MHBK112MAG8	MHBKTHS802X2	66530.00
3.7	5	2.2	3	100	2.0	MHBK132SBG8	MHBKTIS803X7	98050.00
5.5	7.5	3.7	5	150	2.0	MHBK160MAG8	MHBKTKS805X5	141220.00
7.5	10	5.5	7.5	260	2.6	MHBK160MBG8	MHBKTKS807X5	184350.00
9.3	12.5	7.5	10	260	2.0	MHBK160LAG8	MHBKTL809X3	205440.00
11	15	9.3	12.5	400	2.7	MHBK180LAG8	MHBKTN80011	282860.00
15	20	11	15	400	2.0	MHBK180LBG8	MHBKTN80015	290670.00
22	25	15	20	600	2.1	MHBK200LAG8	MHBKTOS80022	452540.00

- Frame Size 63 & 71 Aluminium body & frame size 80 & above are in Cast Iron body
- Brake Motor Price includes Motor with brake arrangement, Brake & Rectifier.
- Brake Type: 190 V DC, Electromagnetic DC Brake with Manual release handle.
- Rectifier : 415 V AC to 190 V AC







# High Efficiency - **IE2**

## Fire Fighting Motors

Totally Enclosed Fan Cooled (TEFC) Squirrel Cage Induction Motors - Horizontal Foot Mounted (B3)

Induction Motor suitable for S2 duty, 415 V  $\pm$  10%, 3 Phase, 50 Hz  $\pm$  5%, Insulation Class 'F' with temperature rise limited to Class F, Degree of protection IP 55, Ambient of 50 °C conforming to IS 12615: 2018, IEC 60034-1

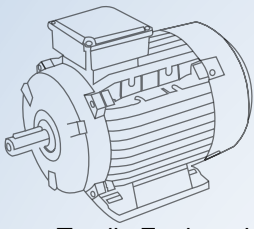
**2 Pole -3000 rev/min**

**HSN Code: 8501**

KW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
5.5	7.5	MHFF112MAG2	MHNGTHS29049	35830.00
7.5	10	MHFF112MBG2	MHNGTHS29052	45220.00
9.3	12.5	MHFF132MAG2	MHNGTJS29050	63470.00
11	15	MHFF132MBG2	MHNGTJS29051	68590.00
15	20	MHFF132MCG2	MHNGTJS29054	75450.00
15	20	MHFF160MAG2	MHNGTKS29058	95140.00
18.5	25	MHFF160MBG2	MHNGTKS29047	112020.00
22	30	MHFF160LAG2	MHNGTLS29046	114310.00
26	35	MHFF160LBG2	MHNGTLS29886	135100.00
30	40	MHFF180LAG2	MHNGTNS29056	154860.00
37	50	MHFF180LBG2	MHNGTNS29057	174680.00
45	60	MHFF200LAG2	MHNGTOS29055	224680.00
55	75	MHFF225MAG2	MHNGTQS29048	286760.00
60	80	MHFF225MBG2	MHNGTQS29887	312830.00
67	90	MHFF250MAG2	MHNGTRS29888	350040.00
75	100	MHFF250MBG2	MHNGTRS29053	391830.00
90	120	MHFF280SAG2	MHNGTSS29059	490740.00
110	150	MHFF280MAG2	MHNGTTS29060	574300.00
132	180	MHFF315SAG2	MHNGTUSA0002	764200.00
150	200	MHFF315MBG2	MHNGTVSA0001	943400.00

- Above Motors are designed for Fire Fighting Pump application only
- Warranty shall be null & void for use in other than fire fighting pump application
- Paint shade Fire Red





# Special Applications Motor

Totally Enclosed Fan Cooled (TEFC) Squirrel Cage Induction Motors - Foot Mounted (B3)/Flange mounting (B5)  
Induction Motor suitable for 415 V  $\pm$  10%, 3 Phase, 50 Hz  $\pm$  5%, Insulation Class 'F' with temperature rise limited to Class B, Degree of protection IP 55, Ambient of 50 °C conforming to IS 12615: 2018, IEC 60034-1

## IE2 Gear Box (Silver Series)

- Aluminium body motor
- Paint shade Silver

### 4 Pole -1500 rev/min (Foot)

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.18	0.25	MHGR63ZAA4	MHAITBS49948	8590.00
0.37	0.5	MHGR71ZAA4	MHAITCS49949	8980.00
0.75	1	MHGR80ZAA4	MHAITDS49950	12250.00
1.1	1.5	MHGR90SAA4	MHAITESB0001	15580.00
1.5	2	MHGR90LAA4	MHAITFSB0001	18010.00

### 4 Pole -1500 rev/min (Flange)

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.18	0.25	MHGR63ZAA4	MHAITBF49672	8590.00
0.37	0.5	MHGR71ZAA4	MHAITCF49673	8980.00
0.75	1	MHGR80ZAA4	MHAITDF49744	12250.00
1.1	1.5	MHGR90SAA4	MHAITEFB0001	16050.00
1.5	2	MHGR90LAA4	MHAITFFB0001	18550.00

## IE2 Atta Chakki

### 6 Pole -1000 rev/min (Foot)

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
7.5	10	MHAT160MAG6	MHNGTKS69605	73860.00
11	15	MHAT160LAG6	MHNGTLS69604	91380.00

## Cane Unloader

- Shaft material EN24
- 3 PTC thermistor
- Force colling method IC416
- Inverter duty motor
- S5 duty 50% CDF
- Insulation class / rise: H/B

### 6 Pole -1000 rev/min (Foot)

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
11	15	MHKE160LZG6	MHNKTLSC0007	180500.00
15	20	MHKE180LZG6	MHNKTNS69842	235500.00
18.5	25	MHKE200LPG6	MHNKTOSC0004	325500.00
22	30	MHKE200LRG6	MHNKTOS69857	360500.00

## IE2 Loom

- Bearing: 6306 2Z/C3
- TEAO / IC418

### 6 Pole -1000 rev/min (Foot)

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
1.5	2	112M	MHNGZHSC0001	30320.00

## IE3 Ginning

- Lint free fan cover

### 4 Pole -1500 rev/min (Foot)

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
3.7	5	132S	MHNPTIS49097	46240.00

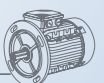
## IE2 Treadmill

### 4 Pole -1500 rev/min (Foot)

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
1.5	2	90L	MHNGTFS49995	19950.00

Other ratings can be offer for above application on request



# Flameproof Motors

FlamEx<sup>series</sup>



## STANDARD PRODUCT SPECIFICATIONS

Rated Power	0.18 kW to 55 kW / (0.25 HP to 75 HP)
Voltage $\pm$ Variation	415 V $\pm$ 10%
Frequency $\pm$ Variation	50 Hz $\pm$ 5%
Enclosure	Ex'd' TEFC
Mounting	Foot, Flange, Foot cum Flange
Degree of Protection	IP 55
Class of Insulation	Class F
Temperature Class	T4
Ambient Temp / Temp Rise	50 °C / Limited Class B
Duty	S1
Starting Method	DOL
Method of cooling	IC411
Zone	1 & 2
Gas Group	IIA & IIB
Paint	Smoke Grey
Reference Standard	IS/IEC 60079-0: 2017, IS/IEC 60079-1: 2014
	IEC 60034-30-1: 2014
Other Features available on request	
Voltage	Upto 690 V $\pm$ 10%
Frequency	50 Hz / 60 Hz $\pm$ 5%
Ambient temperature	-20 °C to 60 °C
Class of Insulation	Class H
Degree of Protection	IP 56, 65, 66
Mounting	Face, Foot cum Face, Pad
Duty	S2 to S4 (S3, S4 with 3PTC, Temperature Class T3)
Starting Method	VFD (with 3PTC, Temperature Class T3)
Temperature Class	T3, T5, T6
Paint	As per customer request
Other non Standard Features	Please contact Havells design team for review

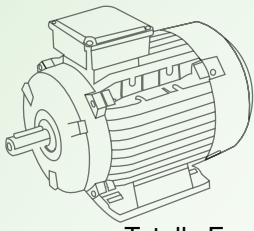
\*DGMS certification under process

### Features:

Flameproof Motors are designed to work efficiently in explosive atmosphere. Following are the key features:

- Robust design to prevent internal explosion pressure.
- Strong spigotted joints for better ingress and safety from internal explosion.
- Special varnishing and painting treatment to resist highly corrosive environment
- Component assembled with counter holes and good quality socket head cap screws with spring washer along with more thread engagement for better safety.
- Havells Flameproof Motors tested and certified for ingress protection test as per IEC 60034-5: 2006 from NABL test labs. Motor can be offered with IP56, IP65 and IP66 Ingress protection.
- "V Seal", "Oil seal" and "O ring" arrangement provided for better bearing and ingress protection.
- Havells Make Flameproof Motors, terminal box specially designed for easy termination and accommodating bigger size cables.





# Premium Efficiency - IE3 FlamExseries

## Cast Iron, Flameproof

Totally Enclosed Fan Cooled (TEFC) Squirrel Cage Induction Motors - Horizontal Foot Mounted (B3)

Induction Motor suitable for continuous duty (S1), 415 V  $\pm$  10%, 3 Phase, 50 Hz  $\pm$  5%, Insulation Class 'F' with temperature rise limited to Class B, Degree of protection IP 55, Ambient of 50 °C conforming to IS 12615: 2018, IEC 60034-1 & Conforms to IS/IEC 60079-0: 2017, IS/IEC 60079-1: 2014, Gas Group IIA, IIB.

### 2 Pole -3000 rev/min

HSN Code: 8501

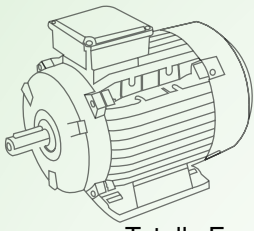
kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.37	0.5	80 FLP	MHD6FDS20X37	24170.00
0.55	0.75	80 FLP	MHD6FDS20X55	27050.00
0.75	1	80 FLP	MHD6FDS20X75	27870.00
1.1	1.5	80 FLP	MHD6FDS201X1	32600.00
1.5	2	90S/L FLP	MHD6FFS201X5	33390.00
2.2	3	90S/L FLP	MHD6FFS202X2	43530.00
3.7	5	100L FLP	MHD6FGS203X7	57860.00
4.5	6	112M FLP	MHD6FHS204X5	74430.00
5.5	7.5	132S/M FLP	MHD6FJS205X5	82050.00
7.5	10	132S/M FLP	MHD6FJS207X5	90600.00
9.3	12.5	132S/M FLP	MHD6FJS209X3	112340.00
9.3	12.5	160M/L FLP	MHD6FKS209X3	171470.00
11	15	160M/L FLP	MHD6FKS20011	178020.00
15	20	160M/L FLP	MHD6FKS20015	188990.00
18.5	25	160M/L FLP	MHD6FLS218X5	214470.00
22	30	180M/L FLP	MHD6FMS20022	246290.00
30	40	200L FLP	MHD6FOS20030	349920.00
37	50	200L FLP	MHD6FOS20037	429680.00
45	60	225S/M FLP	MHD6FQS20045	549870.00
55	75	250M FLP	MHD6FRS20055	703380.00

### 4 Pole -1500 rev/min

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.37	0.5	80 FLP	MHD6FDS40X37	23760.00
0.55	0.75	80 FLP	MHD6FDS40X55	26250.00
0.75	1	80 FLP	MHD6FDS40X75	27280.00
1.1	1.5	90S/L FLP	MHD6FFS401X1	32600.00
1.5	2	90S/L FLP	MHD6FFS401X5	35370.00
2.2	3	100L FLP	MHD6FGS402X2	44970.00
3.7	5	112M FLP	MHD6FHS403X7	56950.00
5.5	7.5	132S/M FLP	MHD6FJS405X5	78320.00
7.5	10	132S/M FLP	MHD6FJS407X5	89210.00
9.3	12.5	132S/M FLP	MHD6FJS409X3	110670.00
9.3	12.5	160M/L FLP	MHD6FKS409X3	126530.00
11	15	160M/L FLP	MHD6FKS40011	129540.00
15	20	160M/L FLP	MHD6FLS40015	157490.00
18.5	25	180M/L FLP	MHD6FMS418X5	196190.00
22	30	180M/L FLP	MHD6FNS40022	231880.00
30	40	200L FLP	MHD6FOS40030	311220.00
37	50	225S/M FLP	MHD6FPS40037	414200.00
45	60	225S/M FLP	MHD6FQS40045	507510.00
55	75	250M FLP	MHD6FRS40055	608240.00





# Premium Efficiency - IE3 FlamExseries

Cast Iron, Flameproof

Totally Enclosed Fan Cooled (TEFC) Squirrel Cage Induction Motors - Horizontal Foot Mounted (B3)

Induction Motor suitable for continuous duty (S1), 415 V  $\pm$  10%, 3 Phase, 50 Hz  $\pm$  5%, Insulation Class 'F' with temperature rise limited to Class B, Degree of protection IP 55, Ambient of 50 °C conforming to IS 12615: 2018, IEC 60034-1 & Conforms to IS/IEC 60079-0: 2017, IS/IEC 60079-1: 2014, Gas Group IIA, IIB.

## 6 Pole -1000 rev/min

HSN Code: 8501

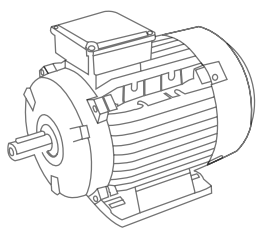
kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.25	0.33	80 FLP	MHD6FDS60X25	26340.00
0.37	0.5	80 FLP	MHD6FDS60X37	27590.00
0.55	0.75	80 FLP	MHD6FDS60X55	29670.00
0.75	1	90S/L FLP	MHD6FFS60X75	34540.00
1.1	1.5	90S/L FLP	MHD6FFS601X1	35590.00
1.5	2	100L FLP	MHD6FGS601X5	51480.00
2.2	3	112M FLP	MHD6FHS602X2	59810.00
3.7	5	132S/M FLP	MHD6FJS603X7	79230.00
5.5	7.5	132S/M FLP	MHD6FJS605X5	96000.00
7.5	10	160M/L FLP	MHD6FKS607X5	159960.00
9.3	12.5	160M/L FLP	MHD6FLS609X3	179210.00
11	15	160M/L FLP	MHD6FLS60011	187160.00
15	20	180M/L FLP	MHD6FNS60015	239040.00
18.5	25	200L FLP	MHD6FOS618X5	299710.00
22	30	200L FLP	MHD6FOS60022	377050.00
30	40	225S/M FLP	MHD6FQS60030	507430.00
37	50	250M FLP	MHD6FRS60037	706960.00

## 8 Pole -750 rev/min

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.18	0.25	80 FLP	MHD6FDS80X18	31350.00
0.25	0.33	80 FLP	MHD6FDS80X25	32930.00
0.37	0.5	90S/L FLP	MHD6FFS80X37	33330.00
0.55	0.75	90S/L FLP	MHD6FFS80X55	35870.00
0.75	1	100L FLP	MHD6FGS80X75	43380.00
1.1	1.5	100L FLP	MHD6FGS801X1	50450.00
1.5	2	112M FLP	MHD6FHS801X5	60530.00
2.2	3	132S/M FLP	MHD6FJS802X2	79970.00
3.7	5	160M/L FLP	MHD6FKS803X7	142120.00
5.5	7.5	160M/L FLP	MHD6FKS805X5	166950.00
7.5	10	160M/L FLP	MHD6FLS807X5	202640.00
11	15	180M/L FLP	MHD6FNS80011	260460.00
15	20	200L FLP	MHD6FOS80015	366690.00
18.5	25	225S/M FLP	MHD6FPS818X5	470590.00
22	30	225S/M FLP	MHD6FQS80022	565660.00
30	40	250M FLP	MHD6FRS80030	763790.00





# High Efficiency - IE2 FlamExseries

Cast Iron, Flameproof

Totally Enclosed Fan Cooled (TEFC) Squirrel Cage Induction Motors - Horizontal Foot Mounted (B3)

Induction Motor suitable for continuous duty (S1), 415 V  $\pm$  10%, 3 Phase, 50 Hz  $\pm$  5%, Insulation Class 'F' with temperature rise limited to Class B, Degree of protection IP 55, Ambient of 50 °C conforming to IS 12615: 2018, IEC 60034-1 & Conforms to IS/IEC 60079-0: 2017, IS/IEC 60079-1: 2014, Gas Group IIA, IIB.

## 2 Pole -3000 rev/min

HSN Code: 8501

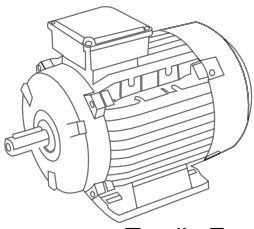
kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.37	0.5	80 FLP	MHD2FDS20X37	22810.00
0.55	0.75	80 FLP	MHD2FDS20X55	25530.00
0.75	1	80 FLP	MHD2FDS20X75	26290.00
1.1	1.5	80 FLP	MHD2FDS201X1	30750.00
1.5	2	90S/L FLP	MHD2FFS201X5	31500.00
2.2	3	90S/L FLP	MHD2FFS202X2	41070.00
3.7	5	100L FLP	MHD2FGS203X7	54580.00
4.5	6	112M FLP	MHD2FHS204X5	70210.00
5.5	7.5	132S/M FLP	MHD2FJS205X5	77400.00
7.5	10	132S/M FLP	MHD2FJS207X5	85470.00
9.3	12.5	132S/M FLP	MHD2FJS209X3	105980.00
9.3	12.5	160M/L FLP	MHD2FKS209X3	161360.00
11	15	160M/L FLP	MHD2FKS20011	167810.00
15	20	160M/L FLP	MHD2FKS20015	178020.00
18.5	25	160M/L FLP	MHD2FLS218X5	202000.00
22	30	180M/L FLP	MHD2FMS20022	230910.00
30	40	200L FLP	MHD2FOS20030	311300.00
37	50	200L FLP	MHD2FOS20037	403670.00
45	60	225S/M FLP	MHD2FQS20045	518480.00
55	75	250M FLP	MHD2FRS20055	665700.00

## 4 Pole -1500 rev/min

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.37	0.5	80 FLP	MHD2FDS40X37	22420.00
0.55	0.75	80 FLP	MHD2FDS40X55	24760.00
0.75	1	80 FLP	MHD2FDS40X75	25730.00
1.1	1.5	90S/L FLP	MHD2FFS401X1	30750.00
1.5	2	90S/L FLP	MHD2FFS401X5	33370.00
2.2	3	100L FLP	MHD2FGS402X2	42420.00
3.7	5	112M FLP	MHD2FHS403X7	53720.00
5.5	7.5	132S/M FLP	MHD2FJS405X5	73890.00
7.5	10	132S/M FLP	MHD2FJS407X5	84160.00
9.3	12.5	160M/L FLP	MHD2FKS409X3	118040.00
11	15	160M/L FLP	MHD2FKS40011	120940.00
15	20	160M/L FLP	MHD2FLS40015	147820.00
18.5	25	180M/L FLP	MHD2FMS418X5	186090.00
22	30	180M/L FLP	MHD2FMS40022	221000.00
30	40	200L FLP	MHD2FOS40030	296170.00
37	50	225S/M FLP	MHD2FPS40037	370020.00
45	60	225S/M FLP	MHD2FQS40045	461610.00
55	75	250M FLP	MHD2FRS40055	594590.00





# High Efficiency - IE2 FlamExseries

Cast Iron, Flameproof

Totally Enclosed Fan Cooled (TEFC) Squirrel Cage Induction Motors - Horizontal Foot Mounted (B3)

Induction Motor suitable for continuous duty (S1), 415 V  $\pm$  10%, 3 Phase, 50 Hz  $\pm$  5%, Insulation Class 'F' with temperature rise limited to Class B, Degree of protection IP 55, Ambient of 50 °C conforming to IS 12615: 2018, IEC 60034-1 & Conforms to IS/IEC 60079-0: 2017, IS/IEC 60079-1: 2014, Gas Group IIA, IIB.

## 6 Pole -1000 rev/min

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.25	0.33	80 FLP	MHD2FDS60X25	24940.00
0.37	0.5	80 FLP	MHD2FDS60X37	26030.00
0.55	0.75	80 FLP	MHD2FDS60X55	28000.00
0.75	1	90S/L FLP	MHD2FFS60X75	32590.00
1.1	1.5	90S/L FLP	MHD2FFS601X1	33560.00
1.5	2	100L FLP	MHD2FGS601X5	48560.00
2.2	3	112M FLP	MHD2FHS602X2	56420.00
3.7	5	132S/M FLP	MHD2FJS603X7	74750.00
5.5	7.5	132S/M FLP	MHD2FJS605X5	90570.00
7.5	10	160M/L FLP	MHD2FKS607X5	149860.00
9.3	12.5	160M/L FLP	MHD2FLS609X3	168670.00
11	15	160M/L FLP	MHD2FLS60011	175660.00
15	20	180M/L FLP	MHD2FNS60015	226370.00
18.5	25	200L FLP	MHD2FOS618X5	278900.00
22	30	200L FLP	MHD2FOS60022	306970.00
30	40	225S/M FLP	MHD2FQS60030	483500.00
37	50	250M FLP	MHD2FRS60037	615820.00

## 8 Pole -750 rev/min

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.18	0.25	80 FLP	MHD2FDS80X18	29470.00
0.25	0.33	80 FLP	MHD2FDS80X25	31070.00
0.37	0.5	90S/L FLP	MHD2FFS80X37	31820.00
0.55	0.75	90S/L FLP	MHD2FFS80X55	33840.00
0.75	1	100L FLP	MHD2FGS80X75	40930.00
1.1	1.5	100L FLP	MHD2FGS801X1	47600.00
1.5	2	112M FLP	MHD2FHS801X5	57100.00
2.2	3	132S/M FLP	MHD2FJS802X2	75450.00
3.7	5	160M/L FLP	MHD2FKS803X7	127500.00
5.5	7.5	160M/L FLP	MHD2FKS805X5	149860.00
7.5	10	160M/L FLP	MHD2FLS807X5	182860.00
11	15	180M/L FLP	MHD2FNS80011	236010.00
15	20	200L FLP	MHD2FOS80015	322290.00
18.5	25	225S/M FLP	MHD2FPS818X5	399900.00
22	30	225S/M FLP	MHD2FQS80022	520090.00
30	40	250M FLP	MHD2FRS80030	643500.00





## Cash Extra for Non standard Special Features

HSN Code: 8501

S. No.	Description of Extra Features	List Price in ₹ Per Unit
1	<b>Special shaft extention</b>	
1.1	Double Extension shaft	5% of LP
1.2	Non standard Extension	5% of LP
	a) Dia more than Standard	On enquiry Basis
	b) Length more than twice of the standard	On enquiry Basis
1.3	Shaft material - EN 24	10% of LP
1.4	Stainless Steel Shaft	20% of LP
2	<b>Mounting</b>	
	Standard flange or face mounting (B14, B5, V1, V18 & V19) or foot cum	
	flange/face mounting (B35, B34, V14, V36).	
2.1	Up to frame 80	Nil
2.2	Frame 90-160	3% of LP
2.3	Frame 180 & above, B30 mounting all frame	5% of LP
3	<b>Non-Standard paint shades as per IS:5</b>	
3.1	Epoxy	
3.1.1	Epoxy 631	3% of LP
3.1.2	Paint shade other than Standard	5% of LP
3.2	Non-Epoxy	
	Paint shade other than Standard	5% of LP
3.3	Paint Thickness	
	Rust Coat primer+ PU Paint up to 70 microns	Nil
	For additional thickness up to 150 microns	5% of LP
	For thickness > 150 up to 215 microns	10% of LP
3.4	C4 painting with paint shade Epoxy 631	15% of LP
4	Epoxy Gel coating on winding overhang	2% of LP
5	Insulation Class "H"	10% of LP
6	Dual coated copper wire	Nil (as Standard)
7	Vacuum Pressure Impregnation (VPI)	
7.1	Upto 132	3% of LP
	Frame 160 to 355 & all 2 pole motors	Nil (as Standard)
	Frame upto 355 IE3 & IE4	Nil (as Standard)
8	<b>Stainless Steel Hardware</b>	
8.1	Upto Frame 225	Rs. 3000.00*
8.2	Frame 250 and Above	Rs. 5000.00*
9	SS name plate	Rs. 500.00*
10	Additional name plate	Rs. 500.00*
11	Non Standard Voltage & Frequency	4% of LP
12	Multi Speed Motors / Higher Pole	
	a. Single tapped winding (Speed ratio 1:2) e.g. 4/2, 8/4 Pole Motors	10% on ALP of higher polarity
	b. Separate winding e.g. 6/4, 8/6 Pole Motors	17.5% on ALP of higher polarity
12.1	10 Pole motor (Selected frame size)	10% on IE2-8P LP
13	9 Leads / 12 Leads	3% of LP
14	Flying lead length 1meter upto 160 Frame & 1.5 meter 180 & above	4% of LP
15	NTPC type terminal box	3% of LP
16	Intermittent duty S2 / S3	5% of LP
16.1	IE2 / IE3 Intermittent duty S4 / S5	7.5% of LP
17	Motor suitable for -40° C ambient	15% of LP
18	<b>Enclosure / Types</b>	
18.1	IP 56 / 65 / 66	10% of LP
19	<b>Space Heaters (for FLP motor LP 1.5x)</b>	
19.1	Frame 90 - 160	Rs. 4400.00*
19.2	Frame 200 - 355	Rs. 8200.00*



\*All policy discount applicable on above accessories

20	<b>PTC Thermistors - without relays (for FLP motor LP 1.5x)</b>	
20.1	3 Nos (1 per phase)	Rs. 4400.00*
20.2	6 Nos (2 per phase)	Rs. 8500.00*
21	<b>RTD Simplex Type (not applicable for FLP motors)</b>	
21.1	3 Nos (1 per phase)	Rs. 15000.00*
21.2	6 Nos (2 per phase)	Rs. 24000.00*
22	<b>RTD Duplex Type (not applicable for FLP motors)</b>	
22.1	3 Nos (1 per phase)	Rs. 30000.00*
22.2	6 Nos (2 per phase)	Rs. 48000.00*
23	<b>2 Nos. BTD Simplex Type (not applicable for FLP motors)</b>	Rs. 14500.00*
24	<b>2 Nos. BTD Duplex Type (not applicable for FLP motors)</b>	Rs. 29000.00*
25	<b>Cable Glands (not applicable for FLP motors)</b>	
25.1	Single Compressor Cable Gland Per run of Cable	
	Frame 71-132	Rs. 1600.00*
	Frame 160-225	Rs. 2200.00*
	Frame 250-355	Rs. 2900.00*
25.2	Double Compressor Cable Gland Per run of Cable	
	Frame 71-132	Rs. 2600.00*
	Frame 160-225	Rs. 4800.00*
	Frame 250-355	Rs. 6400.00*
26	Force Cooling Axial Fan IC 416	
26.1	Force Cooling Fan (1-Phase for 80 Frame & 3-Phase from 90 Frame Onwards)	
	Frame 80 (230 V-0.1 A-2750 RPM-35 W-500CMPH)	Rs. 9000.00*
	Frame 90 (415 V-0.15 A-2800 RPM-70 W-800CMPH)	Rs. 9000.00*
	Frame 100 (415 V-0.15 A-2800 RPM-85 W-850CMPH)	Rs. 11000.00*
	Frame 112 (415 V-0.18 A-2800 RPM-90 W-900CMPH)	Rs. 11000.00*
	Frame 132 (415 V-0.18 A-2800 RPM-90 W-900CMPH)	Rs. 12500.00*
	Frame 160 (415 V-0.25 A-2650 RPM-130 W-1700CMPH)	Rs. 14000.00*
	Frame 180 (415 V-0.25 A-2650 RPM-130 W-1700CMPH)	Rs. 20000.00*
	Frame 200 (415 V-0.4 A-1440 RPM-160 W-2900CMPH)	Rs. 30000.00*
	Frame 225 (415 V-0.4 A-1440 RPM-160 W-2900CMPH)	Rs. 33000.00*
	Frame 250 (415 V-0.4 A-1440 RPM-160 W-2900CMPH)	Rs. 44000.00*
	Frame 280 (415 V-0.5 A-1350 RPM-220 W-4200CMPH)	Rs. 55000.00*
	Frame 315 (415 V-0.5 A-1350 RPM-220 W-4200CMPH)	Rs. 65000.00*
	Frame 355 (415 V-0.5 A-1350 RPM-220 W-4200CMPH)	Rs. 75000.00*
26.2	Encoder mounting arrangement (Hollow shaft encoder)	5% of LP
	Inverter Duty Motor Specification :	
	(a) 1-Phase supply for 80 Frame & 3-Phase Supply from 90 Frame Onwards	
	(b) Standard encoder dimension Size - 15 mm x 30 mm (Dia x Ext length) at NDE	
27	<b>Metallic Fan</b>	
27.1	Fan Material - Aluminum / Cast Iron	3% of LP
28	Lint free fan cover	3% of LP
28.1	Rain canopy for vertical mounting (outdoor applicatiton)	3% of LP
29	<b>Motor Brake Kit (Include brake arrangement, kit and rectifer)</b>	
	5 Nm (size 6)	Rs. 14980.00*
	10 Nm (size 10)	Rs. 16920.00*
	16 Nm (size 10)	Rs. 19630.00*
	35 Nm (size 12)	Rs. 26890.00*
	60 Nm (size 14)	Rs. 31500.00*
	80 Nm (size 16)	Rs. 39550.00*
	100 Nm (size 16)	Rs. 49500.00*
	150 Nm (size 18)	Rs. 63160.00*
	260 Nm (size 20)	Rs. 90990.00*
	400 Nm (size 25)	Rs. 140540.00*
	600 Nm (size 31)	Rs. 245000.00*

\*All policy discount applicable on above accessories

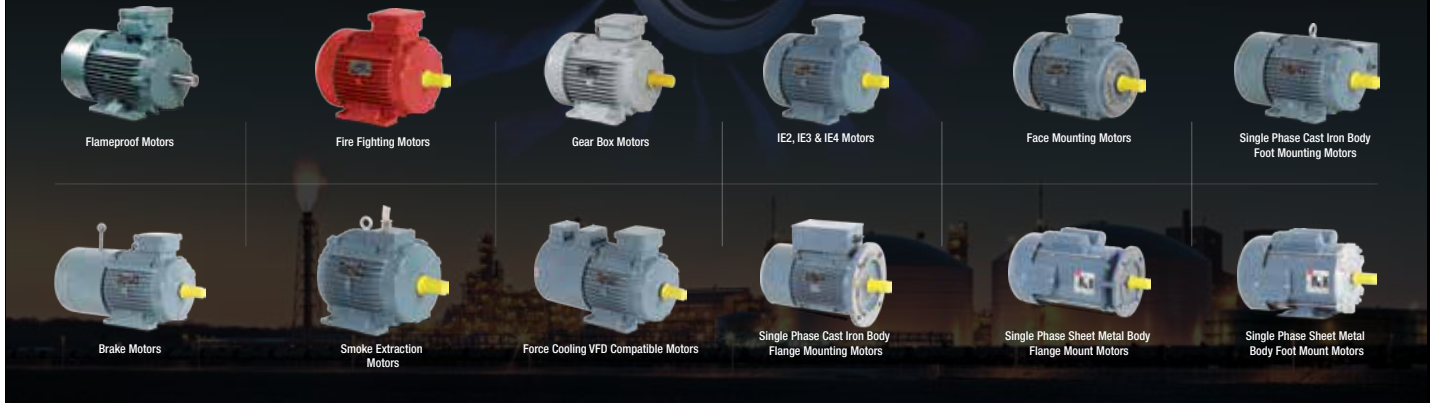


30	<b>Special Bearings</b>	
30.1	<b>Insulated Bearing at NDE Side (recommended for VFD duty motor frame 315 &amp; above)</b>	
	200 & 225 Frame	Rs.60000.00*
	250 Frame	Rs.65000.00*
	280 & 315 Frame	Rs.70000.00*
	355 Frame	Rs.80000.00*
30.2	<b>Roller Bearing on DE Side (recommended for 4-8 Pole V-belt driven applicaton)</b>	
	Frame 160 to 180	Rs.6000.00*
	Frame 200 to 250	Rs.11000.00*
	Frame 280	Rs.14000.00*
	Frame 315 to 355	Rs.18000.00*
30.3	<b>Online Regreasing facility for both bearing</b>	
	Frame 160 to 180 IE2, IE3 & Frame 160 to 225 IE4	5% of LP
30.4	<b>Rubber sealed (2RS) bearing</b>	
30.4.1	Frame 63 to 180 IE2, IE3 & Frame 80 to 225 IE4	2% of LP
31	<b>Angular contact ball bearing</b>	
	Frame 200	Rs.14000.00*
	Frame 225	Rs.17000.00*
	Frame 250	Rs.20000.00*
	Frame 280	Rs.28000.00*
	Frame 315	Rs.33000.00*
	Frame 355	Rs.45000.00*
32	Charges of Auxillary Box for accessories	Rs. 5000.00*
33	<b>Smoke Extraction Motor (As per EN12101-3)</b>	
34.1.1	250° for 2 Hours	25% of LP
35.1.2	300° for 2 Hours	30% of LP
	400° for 2 Hours	60% of LP
	Smoke Motor Specification :	
	Totally Enclosed (TEAO / IC418), 1-Meter Flying lead & Separate Terminal Box Assembly	
36	<b>Vibration Level</b>	
	Vibration level shall be as per normal class of IS 12075-1987, IC 60034-14	
	For any other value please refer to division.	
36.1	Precesion Class A	10% of LP
36.2	Precesion Class B	20% of LP
37	<b>Finishing &amp; Packing</b>	
	Motor delivered in unpacked condition	No reduction in price
	Motor delivered with only primer coat	No recution in price
	Seaworthy / Export packing case for home market	7.5%
38	<b>Testing (As per IS:325-1996)</b>	
38.1	Routine test per Motor	
	Frame 63-132	Rs. 5000.00*
	Frame 160-225	Rs. 9000.00*
	Frame 250-355	Rs. 11000.00*
38.2	Type Test per rating on one Motor	
	Frame 63-132	Rs. 15000.00*
	Frame 160-225	Rs. 20000.00*
	Frame 250-280	Rs. 30000.00*
	Frame 315 and above	Rs. 35000.00*
38.3	Second numeral IP55 test	
	Frame 63-355	Rs. 15000.00*
38.4	Testing with Inverter Drive (Drive to be Provided by Customer)	Rs. 125000.00* per Motor

\*All policy discount applicable on above accessories



# More Power and Less Energy Consumption with Havells Motors Range



## REGIONAL & BRANCH OFFICES:

**NORTH - REGIONAL OFFICE:** Corporate Office: QRG Towers, 2D, Sector-126, Expressway, Noida-201304, Tel: 0120-3331000, Delhi: 011-47676700, 23888200, Chandigarh: 0172-4232400-401, Dehradun: 0135-6670202, Haldwani: 05946-222935/222933, Noida / Haryana: 0120-3331000, Ludhiana: 0161-4676000/24, Amritsar: 0183-5202400/401, Jammu: 0191-2478330, 2479330, Sri Nagar: 0194-2459248, Jaipur: 0141-4211000, 4211011, Jodhpur: 9214201640/41, Lucknow: 0522- 4921600/4921649, Kanpur: 0512-6710400

**EAST - REGIONAL OFFICE:** Kolkata: ICC Tower, 5th Floor, 4 India Exchange Place, Kolkata-700001, Tel: 033-40129851/52, Bhubaneswar: 0674-6668101/102/103/104, Guwahati: 0361-2458923, 2134521, Siliguri: 0353-2525907, Ranchi: 0651-2244861, 2244862, 2244864, 2244868, 2244869, Jamshedpur: 0657-6542492, 09234369436, Patna: 0612-2207221, 2207222, 2207223, 2655518

**WEST - REGIONAL OFFICE:** 1271, Solitaire Corporate Park, Bldg. No. 12, 7th Floor, Andheri - Ghatkopar Link Road, Chakala, Andheri (East), Mumbai- 400093. Tel: 022 - 67298600-602, Ahmedabad: 079-40061111, 40060738/740, Indore: 0731-4219444/4219422, 0731-2572340, Rajkot: 0281-2481112, 2921212, Nagpur: 0712-2240932, 2242692, 2242699 Pune: 020-26056175-76, Raipur: 0771-4243400/01, Surat: 0261-2350137, 9979890137, Jabalpur: 0761-4064491, Bhopal: 0755-4271544, 0755-4011025,

**SOUTH - REGIONAL OFFICE:** Chennai: Sigapi Achi Building, No. 18 / 3, 6th Floor, Rukmani Lakshmiipathy Road, Egmore, Chennai-600008, Tel: 044-42280600, 605, Bangalore: 080-49075000, Coimbatore: 0422-4550200/282, Hyderabad: 040-27533372, 27533355, 27533632, Cochin: 0484-4099000, Calicut: 0495-4019193/4/5, Trivandrum: 0471-4015323, Vizag: 0891-6514339, Vijayawada: 0866-2546161/62/67/68/69, Madurai: 0452-4267000, Hubli: 0836-4248660, Trichy: 0431-4041005/06

Representative Offices: • Goa • Solapur • Gwalior • Kathmandu • Bhopal • Kolapur • Vadodara

### Warranty Policy:

All the products listed in the price list carry a warranty, against manufacturing defects for a period of 18\* months from the date of purchase / 12 months from the date of commissioning, whichever is earlier.

\*Proof of purchase to be retained to avail warranty.

### Terms & Conditions

- Prices are in Indian ₹.
- This Price List supersedes all our previous Price Lists.
- Prices are subject to change without notice.
- Company reserves the right to issue amendments, which may arise due to any errors in the price list.

Actual products may vary in colour, design, description and colour combination etc. Although every effort has been made to ensure accuracy in the compilation of the technical detail within this publication. Specifications & performance data are constantly changing.

Note: All Products to be billed at 18% \*GST (Subject to change as per Govt. Notification).

Scan the QR code  
to download **Havells  
Motor Connect App**



## Havells India Ltd.

Corp Office: QRG Towers, 2D, Sector-126, Expressway, Noida-201304 (U.P.)

Ph. +91-120-3331000, Email: marketing@havells.com, www.havells.com

Customer Care No.: 08045 77 1313

Join us on Facebook at [www.facebook.com/havells](http://www.facebook.com/havells) and share your ways to save planet!

CIN - L31900DL1983PLC016304



# HAVELLS