



**HAVELLS**

# Super Premium Efficiency

LV Induction  
Motors



LIST PRICE  
w.e.f. 1<sup>st</sup> January, 2020

CE (IE4) (IE3) (IE2)



# About us

Havells India Ltd is a billion-dollar-plus organization, and is one of the largest & India's fastest growing electrical and power distribution equipment manufacturer with products ranging from Industrial & Domestic Circuit Protection Switchgear, Cables & Wires, Motors, Fans, Power Capacitors, CFL Lamps, Luminaires for Domestic, Commercial & Industrial applications, Modular Switches, Water Heaters and Domestic Appliances covering the entire gamut of household, commercial and industrial electrical needs.

Havells owns some of the prestigious global brands like Crabtree, Sylvania, Concord, Luminance & Standard.

With 94 branches / representative offices and over 8000 professionals in over 50 countries across the globe, the group has achieved rapid success in the past few years. Its 15 state-of-the-art manufacturing units in India located at Haridwar, Baddi, Noida, Faridabad, Alwar, Neemrana, and 6 state-of-the-art manufacturing plants located across Europe, Latin America & Africa churn out globally acclaimed products. Havells is a name synonymous with excellence and expertise in the electrical industry. Its 20000 strong global distribution network is prompt to service customers.

To add to the existing state-of-the-art manufacturing plants, Havells has now started a world class Motor Plant at Neemrana (Rajasthan). It is one of the largest LV Motor Plant in Asia spread over 42 acres and is manufacturing energy efficient motors ranging from 0.12 HP to 470 HP

The plant has a capacity of manufacturing over 20000 motors per month. The state-of-the-art plant and machinery has been imported from AEG Spain.

Some of the salient features of the plant and the product are :

- Largest single location motor plant in India
- VPI facility for VPI impregnation
- Automatic winding lines upto 250 frames
- Automatic plant drying & conveyorise station
- Automatic test plant upto 355 frame
- All critical operation are done on CNC machines
- Motors have 6 leads for VFD application

Havells is committed to manufacturing excellence and providing world class quality products at affordable prices. Havells offers a complete solution which is not only safe and reliable but also saves energy. We continue the same tradition with our motors.

## STANDARD PRODUCT SPECIFICATIONS

Motor Type	AC Three Phase Squirrel Cage Induction Motor
Efficiency	Energy Efficient As per IS 12615:2014, IEC 60034-30-2014
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 (As per IS 325)
Position of Terminal Box	Top
Direction of Rotation	Bi-directional
Grease Type	Lithium Based Grease
Cooling	Shaft Mounted Fan
Paint	RAL 9005 (For Special Motors)
	Smoke Grey (For IE2 & IE3)

## MATERIAL SPECIFICATIONS

Motor parts	Frame size	Material
Stator frame	63 - 100 80 - 355	Aluminium alloy Cast iron
Endshield	63 - 112 90 - 355	Aluminium alloy Cast iron
Flanged endshield	63 - 112 90 - 355	Aluminium alloy Cast iron
Fan cover	63 - 71 71 - 355	Industrial nylon grade Sheet steel
Fan	63 - 355	Industrial nylon grade
Terminal box	63 - 71 71 - 160 160- 355	Industrial nylon grade Aluminium alloy Sheet steel / Cast iron

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Standard Motors



Special Motors



## Super Premium Series - (IE4)

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

Horizontal Foot Mounted Induction Motor suitable for 415 V  $\pm$  10%, 3 Phase, 50 Hz  $\pm$  5%, Insulation Class 'F', Degree of protection IP 55, Ambient of 50°C.

### 2 Pole -3000 r/min

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.75	1	MHPR80ZAA2	MHCRTDS20X75	11715.00
1.1	1.5	MHPR80ZBA2	MHCRTDS201X1	12750.00
1.5	2	MHPR90SAA2	MHCRTES201X5	14790.00
2.2	3	MHPR90LCA2	MHCRTFS202X2	18975.00
3	4	MHPR100LAA2	MHCRTGS203X7	23535.00
3.7	5	MHPR100LBA2	MHCRTIS205X5	40095.00
5.5	7.5	MHPR132SZA2	MHCRTIS207X5	43065.00
7.5	10	MHPR132STA2	MHCRTJS209X3	64050.00
11	15	MHPR160MYA2	MHCRTKS20011	77490.00
15	20	MHPR160MZA2	MHCRTKS20015	84060.00
18.5	25	MHPR160LZA2	MHCRTLS218X5	108015.00
22	30	MHPR180MZA2	MHCRTMS20022	112575.00
30	40	MHPR200LPG2	MHCRTOS20030	172830.00
37	50	MHPR200LRG2	MHCRTOS20037	203190.00
45	60	MHPR225MP2	MHCRTQS20045	261420.00
55	75	MHPR250MP2	MHCRTRS20055	360615.00

### 4 Pole -1500 r/min

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.55	0.75	MHPR80ZAA4	MHCRTDS40X55	12015.00
0.75	1	MHPR80ZBA4	MHCRTDS40X75	12180.00
1.1	1.5	MHPR90SAA4	MHCRTES401X1	15045.00
1.5	2	MHPR90LBA4	MHCRTFS401X5	17715.00
2.2	3	MHPR100LAA4	MHCRTGS402X2	22050.00
3.7	5	MHPR112MAA4	MHCRTHS403X7	27945.00
5.5	7.5	MHPR132SRA4	MHCRTIS405X5	38520.00
7.5	10	MHPR132MTA4	MHCRTJS407X5	44925.00
11	15	MHPR160MZA4	MHCRTKS40011	75210.00
15	20	MHPR160LZA4	MHCRTLS40015	91170.00
18.5	25	MHPR180MZA4	MHCRTMS418X5	112905.00
22	30	MHPR180LZA4	MHCRTLS40022	119685.00
30	40	MHPR200LRG4	MHCRTOS40030	169035.00
37	50	MHPR225SP4	MHCRTPS40037	202560.00
45	60	MHPR225MP4	MHCRTQS40045	244860.00
55	75	MHPR250MP4	MHCRTRS40055	335235.00

### 6 Pole -1000 r/min

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.37	0.5	MHPR80ZAA6	MHCRTDS60X37	12750.00
0.55	0.75	MHPR80ZBA6	MHCRTDS60X55	13080.00
0.75	1	MHPR90SAA6	MHCRTES60X75	14865.00
1.1	1.5	MHPR90LBA6	MHCRTFS601X1	16305.00
1.5	2	MHPR100LAA6	MHCRTGS601X5	23250.00
2.2	3	MHPR112MAA6	MHCRTHS602X2	25260.00
3.7	5	MHPR132SYA6	MHCRTIS603X7	39315.00
5.5	7.5	MHPR132MZA6	MHCRTJS605X5	47235.00
7.5	10	MHPR160MZA6	MHCRTKS607X5	73110.00
11	15	MHPR160LZA6	MHCRTLS60011	90405.00
15	20	MHPR180LZG6	MHCRTNS60015	111030.00
18.5	25	MHPR200LPG6	MHCRTOS618X5	154050.00
22	30	MHPR200LRG6	MHCRTOS60022	165885.00
30	40	MHPR225MP6	MHCRTQS60030	246795.00
37	50	MHPR250MP6	MHCRTRS60037	335640.00

\* Class F insulation with temperature rise limited to Class B

## Premium Series - (IE3)

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

Horizontal Foot Mounted Induction Motor suitable for 415 V  $\pm$  10%, 3 Phase, 50 Hz  $\pm$  5%, Insulation Class 'F', Degree of protection IP 55, Ambient of 50°C conforming to IS 12615:2014, IEC 60034-30-2014

### 2 Pole -3000 r/min

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.18	0.25	MHPE63ZAA2	MHHPTBS20X18	6490.00
0.25	0.33	MHPE63ZBA2	MHHPTBS20X25	6580.00
0.37	0.5	MHPE71ZAA2	MHHPTCS20X37	6790.00
0.55	0.75	MHPE71ZBA2	MHHPTDS20X55	8680.00
0.75	1	MHPE80ZAA2	MHHPTDS20X75	8970.00
1.1	1.5	MHPE80ZBA2	MHHPTDS201X1	9790.00
1.5	2	MHPE90SAA2	MHCPTES201X5	11380.00
2.2	3	MHPE90LCA2	MHCPTFS202X2	14590.00
3	4	MHPE100LAA2	MHCPTGS20003	18330.00
3.7	5	MHPE100LBA2	MHCPTGS203X7	18720.00
5.5	7.5	MHPE132SZA2	MHCPTIS205X5	29700.00
7.5	10	MHPE132STA2	MHCPTIS207X5	30750.00
9.3	12.5	MHPE132MRA2	MHCPTJS209X3	47160.00
9.3	12.5	MHPE160MTA2	MHCPTKS209X3	51570.00
11	15	MHPE160MYA2	MHCPTKS20011	53460.00
15	20	MHPE160MZA2	MHCPTKS20015	62630.00
18.5	25	MHPE160LZA2	MHCPTLS218X5	80490.00
22	30	MHPE180MZA2	MHCPTMS20022	84970.00
30	40	MHPE200LPG2	MHCPTOS20030	125700.00
37	50	MHPE200LRG2	MHCPTOS20037	153450.00
45	60	MHPE225MP2	MHCPTQS20045	197480.00
55	75	MHPE250MP2	MHCPTRS20055	266520.00
75	100	MHPE280SV2	MHCPTSS20075	343600.00
90	120	MHPE280MV2	MHCPTTS20090	394610.00
110	150	MHPE315SYE2	MHCPTUS20110	483150.00
132	180	MHPE315MZE2	MHCPTVS20132	592730.00
160	215	MHPE315LYE2	MHCPTWS2160	650670.00
180	240	MHPE315LYE2	MHCPTWS2180	703290.00
200	270	MHPE315LZE2	MHCPTWS20200	754860.00
225	300	MHPE355MA2	MHCPTY20225	833390.00
250	335	MHPE355MB2	MHCPTY20250	882140.00
275	370	MHPE355LA2	MHCPTZS20275	933900.00
315	425	MHPE355LB2	MHCPTZS20315	956360.00

### 4 Pole -1500 r/min

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.18	0.25	MHPE63ZAA4	MHHPTBS40X18	6580.00
0.25	0.33	MHPE71ZAA4	MHHPTCS40X25	6760.00
0.37	0.5	MHPE71ZBA4	MHHPTCS40X37	7030.00
0.55	0.75	MHPE80ZAA4	MHHPTDS40X55	9210.00
0.75	1	MHPE80ZBA4	MHHPTDS40X75	9340.00
1.1	1.5	MHPE90SAA4	MHCPTES401X1	11630.00
1.5	2	MHPE90LBA4	MHCPTFS401X5	13590.00
2.2	3	MHPE100LAA4	MHCPTGS402X2	16440.00
3	4	MHPE100LBA4	MHCPTGS40003	17400.00
3.7	5	MHPE112MAA4	MHCPTHS403X7	21250.00
5.5	7.5	MHPE132SRA4	MHCPTIS405X5	29340.00
7.5	10	MHPE132MTA4	MHCPTJS407X5	34360.00
9.3	12.5	MHPE132MRA4	MHCPTJS409X3	44030.00
9.3	12.5	MHPE160MYA4	MHCPTKS409X3	54860.00
11	15	MHPE160MZA4	MHCPTKS40011	56210.00
15	20	MHPE160LZA4	MHCPTLS40015	68540.00
18.5	25	MHPE180MZA4	MHCPTMS418X5	85640.00
22	30	MHPE180LZA4	MHCPTLS40022	89410.00
30	40	MHPE200LRG4	MHCPTOS40030	120750.00
37	50	MHPE225SP4	MHCPTPS40037	152510.00
45	60	MHPE225MP4	MHCPTQS40045	183390.00
55	75	MHPE250MP4	MHCPTRS40055	246680.00
75	100	MHPE280SV4	MHCPTSS40075	313280.00
90	120	MHPE280MV4	MHCPTTS40090	363420.00
110	150	MHPE315SYE4	MHCPTUS40110	423640.00
132	180	MHPE315MYE4	MHCPTVS40132	498930.00
160	220	MHPE315LYE4	MHCPTWS40160	593730.00
180	240	MHPE315LYE4	MHCPTWS40180	706570.00
200	270	MHPE315LZE4	MHCPTWS40200	708620.00
225	300	MHPE355MA4	MHCPTY40225	908700.00
250	340	MHPE355MB4	MHCPTY40250	949570.00
275	370	MHPE355MC4	MHCPTY40275	981880.00
315	425	MHPE355LA4	MHCPTZS40315	990130.00

\* Class F insulation with temperature rise limited to Class B

## Premium Series - (IE3)

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

Horizontal Foot Mounted Induction Motor suitable for 415 V  $\pm$  10%, 3 Phase, 50 Hz  $\pm$  5%, Insulation Class 'F', Degree of protection IP 55, Ambient of 50°C conforming to IS 12615:2014, IEC 60034-30-2014

### 6 Pole -1000 r/min

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.18	0.25	MHPE71ZAA6	MHHPTCS60X18	8815.00
0.25	0.33	MHPE71ZBA6	MHHPTCS60X25	9300.00
0.37	0.5	MHPE80ZAA6	MHHPTDS60X37	9760.00
0.55	0.75	MHPE80ZBA6	MHHPTDS60X55	10020.00
0.75	1	MHPE90SAA6	MHCPTES60X75	11410.00
1.1	1.5	MHPE90LBA6	MHCPTFS601X1	12500.00
1.5	2	MHPE100LAA6	MHCPTGS601X5	18520.00
2.2	3	MHPE112MAA6	MHCPTHS602X2	19880.00
3	4	MHPE112MBA6	MHCPTHS60003	21700.00
3.7	5	MHPE132SYA6	MHCPTIS603X7	29590.00
5.5	7.5	MHPE132MZA6	MHCPTJS605X5	35690.00
7.5	10	MHPE160MZA6	MHCPTKS607X5	54750.00
9.3	12.5	MHPE160LYA6	MHCPTLS609X3	59930.00
11	15	MHPE160LZA6	MHCPTLS60011	66520.00
15	20	MHPE180LZG6	MHCPTNS60015	82960.00
18.5	25	MHPE200LPG6	MHCPTOS618X5	115300.00
22	30	MHPE200LRG6	MHCPTOS60022	122660.00
30	40	MHPE225MP6	MHCPTQS60030	180090.00
37	50	MHPE250MP6	MHCPTRS60037	250910.00
45	60	MHPE280SV6	MHCPTSS60045	309040.00
55	75	MHPE280MV6	MHCPTTS60055	351370.00
75	100	MHPE315SYE6	MHCPTUS60075	406110.00
90	120	MHPE315MYE6	MHCPTVS60090	509750.00
110	150	MHPE315MZE6	MHCPTVS60110	568500.00
132	180	MHPE315LZE6	MHCPTWS60132	665020.00
160	220	MHPE355MA6	MHCPTY60160	710270.00
180	240	MHPE355MB6	MHCPTY60180	840500.00
200	270	MHPE355MC6	MHCPTY60200	874120.00
250	340	MHPE355LA6	MHCPTZS60250	959130.00
315	425	MHPE355LB6	MHCPTZS60315	1347780.00

### 8 Pole -750 r/min

HSN Code: 8501

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.37	0.5	MHPE90SAA8	MHCPTES80X37	11310.00
0.55	0.75	MHPE90LBA8	MHCPTFS80X55	12385.00
0.75	1	MHPE100LAA8	MHCPTGS80X75	15225.00
1.1	1.5	MHPE100LBA8	MHCPTGS801X1	18540.00
1.5	2	MHPE112MAA8	MHCPTHS801X5	21475.00
2.2	3	MHPE132SZA8	MHCPTIS802X2	28430.00
3.7	5	MHPE132MZA8	MHCPTJS803X7	44305.00
5.5	7.5	MHPE160MZA8	MHCPTKS805X5	55340.00
7.5	10	MHPE160LZA8	MHCPTLS807X5	70190.00
9.3	12.5	MHPE180LYG8	MHCPTNS09X3	91270.00
11	15	MHPE180LZG8	MHCPTNS80011	96255.00
15	20	MHPE200LRG8	MHCPTOS80015	135520.00
18.5	25	MHPE225SP8	MHCPTPS818X5	173920.00
22	30	MHPE225MP8	MHCPTQS80022	209075.00
30	40	MHPE250MP8	MHCPTRS80030	282310.00
37	50	MHPE280SV8	MHCPTSS80037	368145.00
45	60	MHPE280MV8	MHCPTTS80045	425380.00
55	75	MHPEE315SYE8	MHCPTUS80055	515455.00
75	100	MHPE315MYE8	MHCPTVS80075	640035.00
90	120	MHPE315LZE8	MHCPTWS80090	725600.00
110	150	MHPE315LZE8	MHCPTWS80110	768155.00
132	180	MHPE355MA8	MHCPTY80132	889975.00
160	220	MHPE355MC8	MHCPTY80160	1034015.00
180	240	MHPE355LA8	MHCPTZS80180	1060875.00
200	270	MHPE355LB8	MHCPTZS80200	1136475.00

\* Class F insulation with temperature rise limited to Class B

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

Horizontal Foot Mounted Induction Motor suitable for 415 V ± 10%, 3 Phase, 50 Hz ± 5%, Insulation Class 'F', Degree of protection IP 55, Ambient of 50°C conforming to IS 12615:2014, IEC 60034-30-2014

**2 Pole -3000 r/min****HSN Code: 8501**

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.18	0.25	MHEE63ZAA2	MHHITBS20X18	<b>5645.00</b>
0.25	0.33	MHEE63ZBA2	MHHITBS20X25	<b>5725.00</b>
0.37	0.5	MHEE71ZAA2	MHHITCS20X37	<b>5820.00</b>
0.55	0.75	MHEE71ZBA2	MHHITDS20X55	<b>7540.00</b>
0.75	1	MHEE80ZAA2	MHHITDS20X75	<b>7810.00</b>
1.1	1.5	MHEE80ZBA2	MHHITDS201X1	<b>8500.00</b>
1.5	2	MHEE90SAA2	MHCITES201X5	<b>9860.00</b>
2.2	3	MHEE90LCA2	MHCITFS202X2	<b>12650.00</b>
3	4	MHEE100LAA2	MHCITGS20003	<b>14840.00</b>
3.7	5	MHEE100LBA2	MHCITGS203X7	<b>15690.00</b>
5.5	7.5	MHEE132SZA2	MHCITIS205X5	<b>26730.00</b>
7.5	10	MHEE132STA2	MHCITIS207X5	<b>28710.00</b>
9.3	12.5	MHEE132MRA2	MHCITJS209X3	<b>42700.00</b>
9.3	12.5	MHEE160MTA2	MHCITKS209X3	<b>49640.00</b>
11	15	MHEE160MYA2	MHCITKS20011	<b>51660.00</b>
15	20	MHEE160MZA2	MHCITKS20015	<b>56040.00</b>
18.5	25	MHEE160LZA2	MHCITLS218X5	<b>72010.00</b>
22	30	MHEE180MZA2	MHCITMS20022	<b>75050.00</b>
30	40	MHEE200LPG2	MHCITOS20030	<b>115220.00</b>
37	50	MHEE200LRG2	MHCITOS20037	<b>135460.00</b>
45	60	MMHE225MP2	MHCITQS20045	<b>174280.00</b>
55	75	MHEE250MP2	MHCITRS20055	<b>240410.00</b>
75	100	MHEE280SV2	MHCITSS20075	<b>304670.00</b>
90	120	MHEE280MV2	MHCITTS20090	<b>353160.00</b>
110	150	MHEE315SYE2	MHCITUS20110	<b>444790.00</b>
132	180	MHEE315MZE2	MHCITVS20132	<b>549070.00</b>
160	215	MHEE315LYE2	MHCITWS2160	<b>599010.00</b>
180	240	MHEE315LYE2	MHCITWS2180	<b>646900.00</b>
200	270	MHEE315LZE2	MHCITWS20200	<b>701010.00</b>
225	300	MHEE355MA2	MHCITYS20225	<b>807830.00</b>
250	335	MHEE355MB2	MHCITYS20250	<b>810210.00</b>
275	370	MHEE355LA2	MHCITZS20275	<b>850770.00</b>
315	425	MHEE355LB2	MHCITZS20315	<b>871200.00</b>

**4 Pole -1500 r/min****HSN Code: 8501**

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.18	0.25	MHEE63ZAA4	MHHITBS40X18	<b>5725.00</b>
0.25	0.33	MHEE71ZAA4	MHHITCS40X25	<b>5880.00</b>
0.37	0.5	MHEE71ZBA4	MHHITCS40X37	<b>6120.00</b>
0.55	0.75	MHEE80ZAA4	MHHITDS40X55	<b>8010.00</b>
0.75	1	MHEE80ZBA4	MHHITDS40X75	<b>8120.00</b>
1.1	1.5	MHEE90SAA4	MHCITES401X1	<b>10030.00</b>
1.5	2	MHEE90LBA4	MHCITFS401X5	<b>11810.00</b>
2.2	3	MHEE100LAA4	MHCITGS402X2	<b>14700.00</b>
3	4	MHEE100LBA4	MHCITGS40003	<b>15460.00</b>
3.7	5	MHEE112MAA4	MHCITHS403X7	<b>18630.00</b>
5.5	7.5	MHEE132SRA4	MHCITIS405X5	<b>25680.00</b>
7.5	10	MHEE132MTA4	MHCITJS407X5	<b>29950.00</b>
9.3	12.5	MHEE132MRA4	MHCITJS409X3	<b>40640.00</b>
9.3	12.5	MHEE160MYA4	MHCITKS409X3	<b>47840.00</b>
11	15	MHEE160MZA4	MHCITKS40011	<b>50140.00</b>
15	20	MHEE160LZA4	MHCITLS40015	<b>60780.00</b>
18.5	25	MHEE180MZA4	MHCITMS418X5	<b>75270.00</b>
22	30	MHEE180LZA4	MHCITLS40022	<b>79790.00</b>
30	40	MHEE200LRG4	MHCITOS40030	<b>112690.00</b>
37	50	MHEE225SP4	MHCITPS40037	<b>135040.00</b>
45	60	MHEE225MP4	MHCITQS40045	<b>163240.00</b>
55	75	MHEE250MP4	MHCITRS40055	<b>223490.00</b>
75	100	MHEE280SV4	MHCITSS40075	<b>274310.00</b>
90	120	MHEE280MV4	MHCITTS40090	<b>319520.00</b>
110	150	MHEE315SYE4	MHCITUS40110	<b>390030.00</b>
132	180	MHEE315MYE4	MHCITVS40132	<b>462630.00</b>
160	220	MHEE315LYE4	MHCITWS40160	<b>537430.00</b>
180	240	MHEE315LYE4	MHCITWS40180	<b>579020.00</b>
200	270	MHEE315LZE4	MHCITWS40200	<b>652350.00</b>
225	300	MHEE355MA4	MHCITYS40225	<b>756360.00</b>
250	340	MHEE355MB4	MHCITYS40250	<b>789320.00</b>
275	370	MHEE355MC4	MHCITYS40275	<b>877280.00</b>
315	425	MHEE355LA4	MHCITZS40315	<b>905560.00</b>

\* Class F insulation with temperature rise limited to Class B



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

Horizontal Foot Mounted Induction Motor suitable for 415 V ± 10%, 3 Phase, 50 Hz ± 5%, Insulation Class 'F', Degree of protection IP 55, Ambient of 50°C conforming to IS 12615:2014, IEC 60034-30-2014

**6 Pole -1000 r/min****HSN Code: 8501**

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.18	0.25	MHEE71ZAA6	MHHITCS60X18	<b>7665.00</b>
0.25	0.33	MHEE71ZBA6	MHHITCS60X25	<b>8085.00</b>
0.37	0.5	MHEE80ZAA6	MHHITDS60X37	<b>8500.00</b>
0.55	0.75	MHEE80ZBA6	MHHITDS60X55	<b>8720.00</b>
0.75	1	MHEE90SAA6	MHCITES60X75	<b>9910.00</b>
1.1	1.5	MHEE90LBA6	MHCITFS601X1	<b>10870.00</b>
1.5	2	MHEE100LAA6	MHCITGS601X5	<b>15500.00</b>
2.2	3	MHEE112MAA6	MHCITHS602X2	<b>16840.00</b>
3	4	MHEE112MBA6	MHCITHS60003	<b>18200.00</b>
3.7	5	MHEE132SYA6	MHCITIS603X7	<b>26210.00</b>
5.5	7.5	MHEE132MZA6	MHCITJS605X5	<b>31490.00</b>
7.5	10	MHEE160MZA6	MHCITKS607X5	<b>48740.00</b>
9.3	12.5	MHEE160LYA6	MHCITLS609X3	<b>53370.00</b>
11	15	MHEE160LZA6	MHCITLS60011	<b>60270.00</b>
15	20	MHEE180LZG6	MHCITNS60015	<b>74020.00</b>
18.5	25	MHEE200LPG6	MHCITOS618X5	<b>102700.00</b>
22	30	MHEE200LRG6	MHCITOS60022	<b>110590.00</b>
30	40	MHEE225MP6	MHCITQS60030	<b>164530.00</b>
37	50	MHEE250MP6	MHCITRS60037	<b>223760.00</b>
45	60	MHEE280SV6	MHCITSS60045	<b>269370.00</b>
55	75	MHEE280MV6	MHCITTS60055	<b>309340.00</b>
75	100	MHEE315SYE6	MHCITUS60075	<b>373890.00</b>
90	120	MHEE315MYE6	MHCITVS60090	<b>469300.00</b>
110	150	MHEE315MZE6	MHCITVS60110	<b>523400.00</b>
132	180	MHEE315LZE6	MHCITWS60132	<b>615480.00</b>
160	220	MHEE355MA6	MHCITYS60160	<b>640760.00</b>
180	240	MHEE355MB6	MHCITYS60180	<b>706690.00</b>
200	270	MHEE355MC6	MHCITYS60200	<b>759890.00</b>
250	340	MHEE355LA6	MHCITZS60250	<b>819670.00</b>
315	425	MHEE355LB6	MHCITZS60315	<b>1208150.00</b>

**8 Pole -750 r/min****HSN Code: 8501**

kW	HP	Frame	Cat. Ref.	List Price in ₹ Per Unit
0.37	0.5	MHEE90SAA8	MHCITES80X37	<b>9835.00</b>
0.55	0.75	MHEE90LBA8	MHCITFS80X55	<b>10770.00</b>
0.75	1	MHEE100LAA8	MHCITGS80X75	<b>13240.00</b>
1.1	1.5	MHEE100LBA8	MHCITGS801X1	<b>16120.00</b>
1.5	2	MHEE112MAA8	MHCITHS801X5	<b>18675.00</b>
2.2	3	MHEE132SZA8	MHCITIS802X2	<b>24720.00</b>
3.7	5	MHEE132MZA8	MHCITJS803X7	<b>38525.00</b>
5.5	7.5	MHEE160MZA8	MHCITKS805X5	<b>48120.00</b>
7.5	10	MHEE160LZA8	MHCITLS807X5	<b>61035.00</b>
9.3	12.5	MHEE180LYG8	MHCITNS09X3	<b>79365.00</b>
11	15	MHEE180LZG8	MHCITNS80011	<b>83700.00</b>
15	20	MHEE200LRG8	MHCITOS80015	<b>117845.00</b>
18.5	25	MHEE225SP8	MHCITPS818X5	<b>151235.00</b>
22	30	MHEE225MP8	MHCITQS80022	<b>181805.00</b>
30	40	MHEE250MP8	MHCITRS80030	<b>245485.00</b>
37	50	MHEE280SV8	MHCITSS80037	<b>320125.00</b>
45	60	MHEE280MV8	MHCITTS80045	<b>369895.00</b>
55	75	MHEE315SYE8	MHCITUS80055	<b>448220.00</b>
75	100	MHEE315MYE8	MHCITVS80075	<b>556550.00</b>
90	120	MHEE315LZE8	MHCITWS80090	<b>630955.00</b>
110	150	MHEE315LZE8	MHCITWS80110	<b>667960.00</b>
132	180	MHEE355MA8	MHCITYS80132	<b>773890.00</b>
160	220	MHEE355MC8	MHCITYS80160	<b>899145.00</b>
180	240	MHEE355LA8	MHCITZS80180	<b>922500.00</b>
200	270	MHEE355LB8	MHCITZS80200	<b>988240.00</b>

\* Class F insulation with temperature rise limited to Class B

S. No.	Description of Extra Features	Extra Charges
1	Special shaft extention	
1.1	Double Extension shaft	5% of LP
	Non standard Extension	On enquiry Basis
	a) Dia more than Standard	
	b) Length more than twice of the standard	
1.2	Shaft material - EN 24	10% of LP
1.3	Stainless Steel Shaft 304	15% of LP
2	Mounting	
	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 112	Nil
2.2	Frame 132-160	3% of LP
2.3	Frame 180 & above	5% of LP
3	Non-Standard paint shades as per IS:5	
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	4% of LP
	For thickness > 150 up to 215 microns	6% of LP
4	Epoxy Gel coating on winding overhang	2% of LP
5	Insulation Class "H"	10% of LP
6	Vacuum Pressure Impregnation (VPI)	
6.1	Upto 160	3% of LP
7	Stainless Steel Hardware	
7.1	Upto Frame 225	Rs. 900.00/- Net
7.2	Frame 250 and Above	Rs. 1500.00/- Net
8	Non Standard Voltage or Variable Frequency (Range 200 V - 480 V)	3% of LP
9	Multi Speed Motors	
9.1	Single Tapped winding type motor upto 8 Pole (to be taken on higher frame). [Tapped winding is indicated by speed ratio 1:2(e.g. 4/8 or 2/4)]	On enquiry Basis
9.2	Dual Winding e.g. 4/6, 6/8	On enquiry Basis
10	9 Leads / 12 Leads	3% of LP
11	Enclosure / Types	
11.1	IP 56	5% of LP
11.2	IP 65 / 66	10% of LP
12	Space Heaters	
12.1	Up to Frame 180	Rs. 1350.00/- Net
12.2	Frame 200 - 250	Rs. 2750.00/- Net
12.3	Frame 280 - 355	Rs. 2750.00/- Net
13	PTC Thermistors (without relays)	
13.1	3 Nos.	Rs. 2000.00/- Net
13.2	6 Nos.	Rs. 3900.00/- Net
14	RTD	
14.1	3 Nos. (Frame 160 - 250)	Rs. 5000.00/- Net
14.2	6 Nos. (Frame 160 - 250)	Rs. 6000.00/- Net
14.3	3 Nos. (Frame 280 and above)	Rs. 6000.00/- Net
14.4	6 Nos. (Frame 280 and above)	Rs. 7500.00/- Net
15	2 Nos. BTD Simplex Type	Rs. 6500.00/- Net
16	Cable Glands	
16.1	Single Compressor Cable Gland Per run of Cable	
	Frame 71-132	Rs. 700.00/- Net
	Frame 160-225	Rs. 1000.00/- Net
	Frame 250-355	Rs. 1300.00/- Net

16.2	Double Compressor Cable Gland Per run of Cable	
	Frame 71-132	Rs. 1200.00/- Net
	Frame 160-225	Rs. 2200.00/- Net
	Frame 250-355	Rs. 2900.00/- Net
17	Special Bearings	
17.1	Insulated Bearing (NDE Side)	
	250 Frame	Rs.34000.00/- Net
	280 & 315 Frame	Rs.37000.00/- Net
	355 Frame	Rs.40000.00/- Net
17.2	Roller Bearing arrangement on DE Side	
	Frame 160 to 180	Rs.1550.00/- Net
	Frame 200 to 250	Rs.3000.00/- Net
	Frame 280 to 315	Rs.4000.00/- Net
	Frame 355	Rs.5000.00/- Net
18	Force cooling Arrangement	
18.1.1	Frame 280	Rs.27000.00/- Net
18.1.2	Frame 315	Rs.30000.00/- Net
18.1.3	Frame 355	Rs.37000.00/- Net
18.2	Encoder Arrangement Charges	5% of LP
	Inverter Duty Motor Specification :	
	(a) 1-Ph supply for 80 Frame & 3-Ph Supply from 90 Frame Onwards	
	(b) Standard encoder dimension Size - 15x30mm (Ext x Dia) at NDE	
19	Charges for Separate Auxillary Box	Rs. 2300.00/- Net
20	Crane Duty Charges (150Stars/Hr, 40% CDF)	7% of LP
21	Smoke Extraction Motor (As per EN12101 - 3)	
21.1.1	250 Degg for 2 Hrs	25% of LP
21.1.2	300 Degg for 2 Hrs	30% of LP
	Smoke Motor Specification :	
	(a) TE/TEFC	
	(b) 1-Meter Flying lead	
	(c) Separate Terminal Box Assembly	
22	Vibration Level	
	Vibration level shall be as per normal class of IS 12075-1987.	
	For any other value please refer to division.	
	Precesion Class A	10% of LP
	Precesion Class B	20% of LP
23	Finishing & Packing	
	Motor delivered in unpacked condition	No reduction in price
	Motor delivered with only RED oxide primer coat	No recution in price
	Seaworthy / Export packing case for home market	5% subject to maximum of Rs. 5500.00/-
24	Testing (As per IS:325-1996)	
24.1	Routine test per Motor	
	Frame 56-132	Rs. 1400.00/- Net
	Frame 160-225	Rs. 2200.00/- Net
	Frame 250-355	Rs. 2950.00/- Net
24.2	Type Test per rating on one Motor	
	Frame 56-132	Rs. 4900.00/- Net
	Frame 160-225	Rs. 7500.00/- Net
	Frame 250-280	Rs. 10000.00/- Net
	Frame 315 and above	Rs. 15000.00/- Net
24.3	Second numeral IP55 test	
	Frame 56-355	Rs. 5000.00/- Net
24.4	Testing with Inverter Drive (Drive to be Provided by Customer)	Rs. 55000.00/- Net per Motor



MHMPL00008/Dec 18/Jan 19

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