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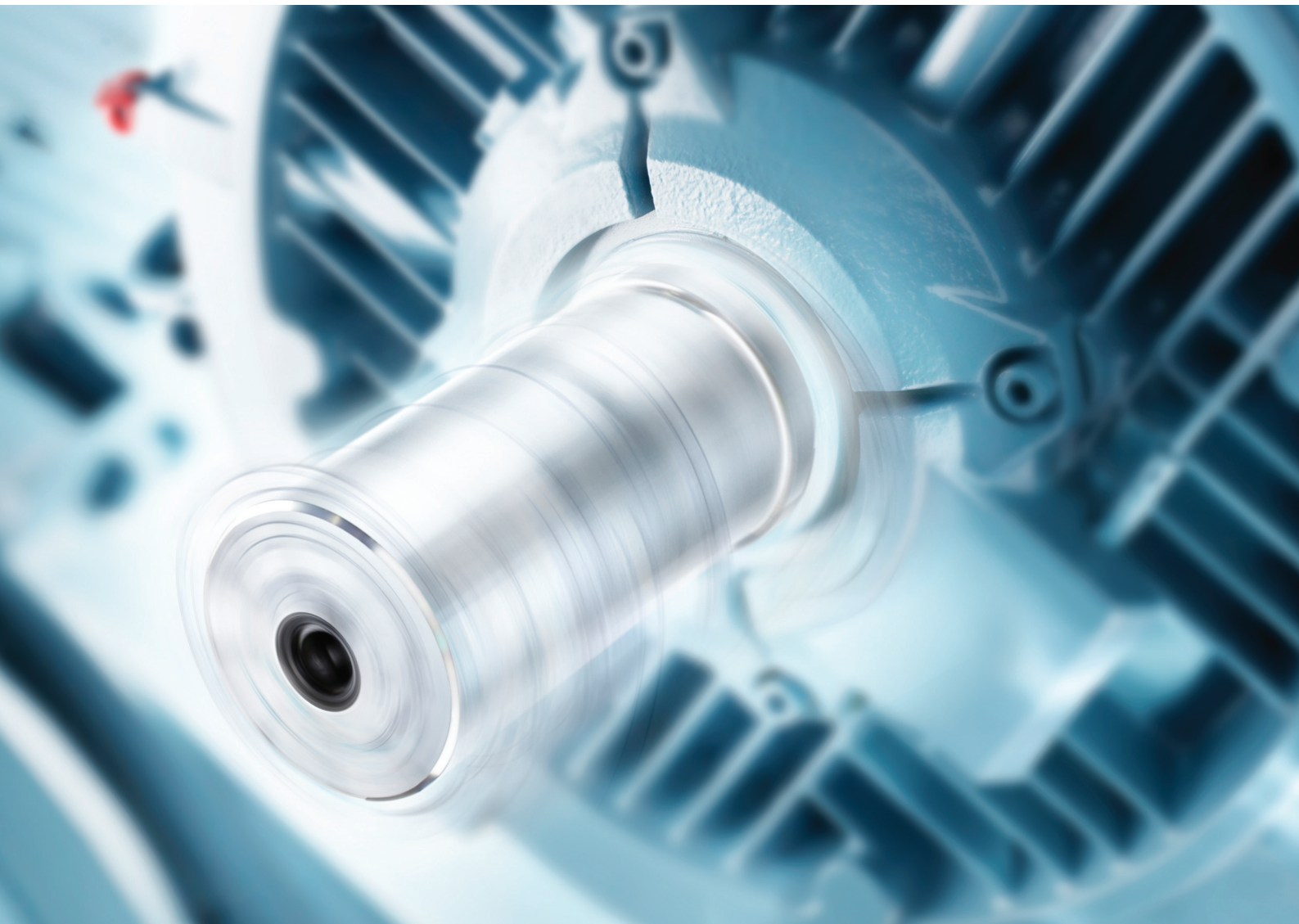
Website : www.saloc.in



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INDIA | 2022

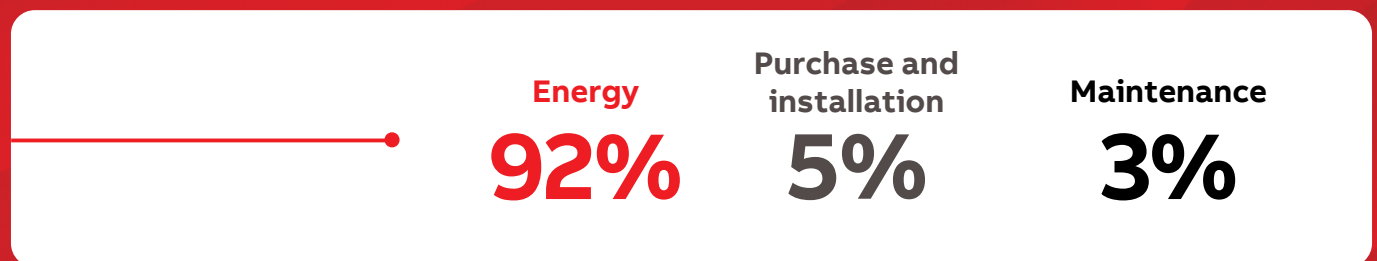
# Low Voltage Motors Price List



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**ABB aims at improving the return of investment for customers by reducing total cost of ownership – the complete cost from purchase to disposal, including environmental impact.**

**It pays to consider the total cost of ownership.**

































































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- All motors are Totally Enclosed Fan Cooled (TEFC) squirrel cage induction type
- FRSM-65 effective from 01.05.2022-superseding FRSM-64 dated 28.05.2021
- Prices are subject to change without notice
- Prices are ex-works/ex-godown and excluding GST which will be charged extra at actuals
- While motor output is given in kW and HP, the former is binding
- Due to improvement being made from time to time, frame sizes indicated are provisional and subject to change without notice

## Energy efficient Totally Enclosed Fan Cooled (TEFC) squirrel cage induction motors (IE2)

Enclosure confirming to protection IP55 as per IS/IEC 60034-5. Horizontal foot mounted induction motors, continuously rated, suitable for operation on 415V+/-10%, 50Hz+/-5%, A.C. supply with class 'F' insulation for 50 °C ambient temperature and altitude less than 1000 meters above sea level. Confirming to IEC:60034-1 and IS 12615:2018.































































TWO POLE					3000 RPM	
kW	H.P	Frame size	Price (Rs)	DS*	GAD**	
0.37	0.50	M2BAX71MA2	17900			
0.55	0.75	M2BAX71MB2	19600			
0.75	1.00	M2BAX80MA2	21500			
1.10	1.50	M2BAX80MB2	24200			
1.50	2.00	M2BAX90SA2	29700			
2.20	3.00	M2BAX90LA2	35200			
3.70	5.00	M2BAX100LC2	46200			
5.50	7.50	M2BAX132SA2	73700			
7.50	10.00	M2BAX132SB2	77000			
9.30	12.50	M2BAX160MLJ2	139700			
11.00	15.00	M2BAX160MLA2	146600			
15.00	20.00	M2BAX160MLB2	165700			
18.50	25.00	M2BAX160MLC2	197800			
22.00	30.00	M2BAX180MLA2	225500			
30.00	40.00	M2BAX200MLA2	313200			
37.00	50.00	M2BAX200MLB2	354900			
45.00	60.00	M2BAX225SMA2	461800			
55.00	75.00	M2BAX250SMA2	628300			
75.00	100.00	M2BAX280SA2	941200			
90.00	120.00	M2BAX280SMB2	1053000			
110.00	150.00	M2BAX315SMA2	1298600			
125.00	170.00	M2BAX315SB2	1510500			
132.00	180.00	M2BAX315SMB2	1527500			
160.00	215.00	M2BAX315SMC2	1689500			
180.00	240.00	M2BAX315MA2	1829300			
200.00	270.00	M2BAX315MLA2	1941400			
225.00	300.00	M2BAX355SA2	2200000			
250.00	335.00	M2BAX355SMA2	2364500			
315.00	425.00	M2BAX355SMB2	2612500			
355.00	475.00	M2BAX355SMC2	2938100			
375.00	500.00	E2BA355MLD2	3360000			

DS\* - Data Sheet

GAD\*\* - General Arrangement Drawing

## Energy efficient Totally Enclosed Fan Cooled (TEFC) squirrel cage induction motors (IE2)

Enclosure conforming to protection IP55 as per IS/IEC 60034-5. Horizontal foot mounted induction motors, continuously rated, suitable for operation on 415V+/-10%, 50Hz+/-5%, A.C. supply with class 'F' insulation for 50 °C ambient temperature and altitude less than 1000 meters above sea level. Confirming to IEC:60034-1 and IS 12615:2018.



























































FOUR POLE						1500 RPM
kW	H.P	Frame size	Price (Rs)	DS*	GAD**	
0.37	0.50	M2BAX71MB4	19300			
0.55	0.75	M2BAX80MA4	23500			
0.75	1.00	M2BAX80MB4	24800			
1.10	1.50	M2BAX90SA4	30200			
1.50	2.00	M2BAX90LA4	34700			
2.20	3.00	M2BAX100LA4	41100			
3.70	5.00	M2BAX112MA4	52800			
5.50	7.50	M2BAX132SA4	71500			
7.50	10.00	M2BAX132MA4	83400			
9.30	12.50	M2BAX160MLJ4	134400			
11.00	15.00	M2BAX160MLA4	138400			
15.00	20.00	M2BAX160MLB4	161700			
18.50	25.00	M2BAX180MLA4	215600			
22.00	30.00	M2BAX180MLB4	231000			
30.00	40.00	M2BAX200MLA4	319000			
37.00	50.00	M2BAX225SMA4	372900			
45.00	60.00	M2BAX225SMB4	448300			
55.00	75.00	M2BAX250SMA4	576800			
75.00	100.00	M2BAX280SA4	858100			
90.00	120.00	M2BAX280SMB4	979000			
110.00	150.00	M2BAX315SMA4	1169900			
125.00	170.00	M2BAX315SB4	1374800			
132.00	180.00	M2BAX315SMB4	1386000			
160.00	215.00	M2BAX315SMC4	1569200			
180.00	240.00	M2BAX315MA4	1704600			
200.00	270.00	M2BAX315MLA4	1852700			
225.00	300.00	M2BAX355S4	2195200			
250.00	335.00	M2BAX355SMA4	2283600			
315.00	425.00	M2BAX355SMB4	2643300			
355.00	475.00	M2BAX355SMC4	3270400			
400.00	540.00	E2BA355MLB4h	3571700			

DS\*- Data Sheet

GAD\*\* - General Arrangement Drawing

## Energy efficient Totally Enclosed Fan Cooled (TEFC) squirrel cage induction motors (IE2)

Enclosure conforming to protection IP55 as per IS/IEC 60034-5. Horizontal foot mounted induction motors, continuously rated, suitable for operation on 415V+/-10%, 50Hz+/-5%, A.C. supply with class 'F' insulation for 50 °C ambient temperature and altitude less than 1000 meters above sea level. Confirming to IEC:60034-1 and IS 12615:2018.

SIX POLE						1000 RPM
kW	H.P	Frame size	Price (Rs)	DS*	GAD**	
0.37	0.50	M2BAX80MA6	23700			
0.55	0.75	M2BAX80MB6	24800			
0.75	1.00	M2BAX90SA6	31400			
1.10	1.50	M2BAX90LA6	34700			
1.50	2.00	M2BAX100LA6	42900			
2.20	3.00	M2BAX112MA6	51000			
3.70	5.00	M2BAX132SB6	78400			
5.50	7.50	M2BAX132MB6	92400			
7.50	10.00	M2BAX160MLA6	143000			
9.30	12.50	M2BAX160MLJ6	172500			
11.00	15.00	M2BAX160MLB6	181500			
15.00	20.00	M2BAX180MLA6	231000			
18.50	25.00	M2BAX200MLA6	285700			
22.00	30.00	M2BAX200MLB6	308300			
30.00	40.00	M2BAX225SMA6	436000			
37.00	50.00	M2BAX250SMA6	572300			
45.00	60.00	M2BAX280SA6	805700			
55.00	75.00	M2BAX280SB6	942200			
75.00	100.00	M2BAX315SMA6	1091800			
90.00	120.00	M2BAX315SMB6	1317700			
110.00	150.00	M2BAX315SMC6	1469600			
125.00	170.00	M2BAX315MA6	1719500			
132.00	180.00	M2BAX315MLA6	1728100			
160.00	215.00	M2BAX355SMA6	1946000			
200.00	270.00	M2BAX355SMB6	2294600			
250.00	335.00	M2BAX355SMC6	2409000			
275.00	370.00	E2BA355MLB6k	2986500			
315.00	425.00	E2BA355MLB6	3623200			
355***	475.00	E2BA355MLB6h	3677500			

































































DS\*- Data Sheet

GAD\*\* - General Arrangement Drawing

\*\*\*The rating is suitable for class 'F' temperature rise only

## Energy efficient Totally Enclosed Fan Cooled (TEFC) squirrel cage induction motors (IE2)

Enclosure conforming to protection IP55 as per IS/IEC 60034-5. Horizontal foot mounted induction motors, continuously rated, suitable for operation on 415V+/-10%, 50Hz+/-5%, A.C. supply with class 'F' insulation for 50 °C ambient temperature and altitude less than 1000 meters above sea level. Confirming to IEC:60034-1 and IS 12615:2018.

EIGHT POLE						750 RPM
kW	H.P	Frame size	Price (Rs)	DS*	GAD**	
0.09	0.12	M2BAX71MA8	20200			
0.12	0.16	M2BAX71MB8	21300			
0.18	0.25	M2BAX80MA8	24600			
0.25	0.34	M2BAX80MB8	25200			
0.37	0.50	M2BAX90SA8	32500			
0.55	0.75	M2BAX90LA8	34700			
0.75	1.00	M2BAX100LA8	43100			
1.10	1.50	M2BAX100LB8	47600			
1.50	2.00	M2BAX112MA8	54900			
2.20	3.00	M2BAX132SA8	87900			
3.70	5.00	M2BAX160MLA8	121500			
5.50	7.50	M2BAX160MLB8	154000			
7.50	10.00	M2BAX160MLC8	184800			
9.30	12.50	M2BAX180MLA8	235800			
11.00	15.00	M2BAX180MLB8	255400			
15.00	20.00	M2BAX200MLA8	327000			
18.50	25.00	M2BAX225SMA8	412500			
22.00	30.00	M2BAX225SMB8	484000			
30.00	40.00	M2BAX250SMA8	605000			
37.00	50.00	M2BAX280SA8	866800			
45.00	60.00	M2BAX280SB8	968000			
55.00	75.00	M2BAX315SMA8	1224900			
75.00	100.00	M2BAX315SMB8	1435500			
90.00	120.00	M2BAX315SMC8	1562000			
110.00	150.00	M2BAX315MLA8	1728100			
132.00	180.00	M2BAX355SMA8	2095500			
150.00	200.00	M2BAX355SB8	2230800			
160.00	215.00	M2BAX355SMB8	2348000			
180.00	240.00	M2BAX355SC8	2578400			
200.00	270.00	M2BAX355SMC8	2716200			
225.00	300.00	E2BA355MLB8h	3355000			
250***	335.00	E2BA355MLB8k	3850000			































































DS\*- Data Sheet

GAD\*\* - General Arrangement Drawing

\*\*\*The rating is suitable for class 'F' temperature rise only

## Energy efficient Totally Enclosed Fan Cooled (TEFC) squirrel cage induction motors (IE3)

Enclosure conforming to protection IP55 as per IS/IEC 60034-5. Horizontal foot mounted induction motors, continuously rated, suitable for operation on 415V+/-10%, 50Hz+/-5%, A.C. supply with class 'F' insulation for 50 °C ambient temperature and altitude less than 1000 meters above sea level. Confirming to IEC:60034-1 and IS 12615:2018.

TWO POLE						3000 RPM
kW	H.P	Frame size	Price (Rs)	DS*	GAD**	
0.37	0.50	M2BAX71MC2	21300			
0.55	0.75	M2BAX71MB2	24100			
0.75	1.00	M2BAX80MC2	25200			
1.10	1.50	M2BAX80MD2	30500			
1.50	2.00	M2BAX90SB2	33600			
2.20	3.00	M2BAX90SLA2	40300			
3.70	5.00	M2BAX100LKB2	61600			
5.50	7.50	M2BAX132SMA2	91300			
7.50	10.00	M2BAX132SMB2	99000			
9.30	12.50	M2BAX160MLJ2	154600			
11.00	15.00	M2BAX160MLA2	165000			
15.00	20.00	M2BAX160MLB2	188100			
18.50	25.00	M2BAX160MLC2	231000			
22.00	30.00	M2BAX180MLA2	245900			
30.00	40.00	M2BAX200MLA2	364000			
37.00	50.00	M2BAX200MLB2	425100			
45.00	60.00	M2BAX225SMA2	556600			
55.00	75.00	M2BAX250SMA2	693000			
75.00	100.00	M2BAX280SMB2	1045000			
90.00	120.00	M2BAX280SMC2	1165800			
110.00	150.00	M2BAX315SMB2	1390000			
125.00	170.00	M2BAX315SC2	1687400			
132.00	180.00	M2BAX315SMC2	1703900			
160.00	215.00	M2BAX315SMD2	1832800			
180.00	240.00	M2BAX315MA2	2089900			
200.00	270.00	M2BAX315MLA2	2124100			
225.00	300.00	M2BAX355SA2	2464000			
250.00	335.00	M2BAX355SMA2	2651000			
315.00	425.00	M2BAX355SMB2	2832500			
355.00	475.00	M2BAX355SMC2	3200400			
375.00	500.00	E3BA355MLD2	3663500			































































DS\* - Data Sheet

GAD\*\* - General Arrangement Drawing



## Energy efficient Totally Enclosed Fan Cooled (TEFC) squirrel cage induction motors (IE3)

Enclosure conforming to protection IP55 as per IS/IEC 60034-5. Horizontal foot mounted induction motors, continuously rated, suitable for operation on 415V+/-10%, 50Hz+/-5%, A.C. supply with class 'F' insulation for 50 °C ambient temperature and altitude less than 1000 meters above sea level. Confirming to IEC:60034-1 and IS 12615:2018.

FOUR POLE				1500 RPM	
kW	H.P	Frame size	Price (Rs)	DS*	GAD**
0.37	0.50	M2BAX71MLA4	23000		
0.55	0.75	M2BAX80MC4	27400		
0.75	1.00	M2BAX80MLA4	29700		
1.10	1.50	M2BAX90SB4	33000		
1.50	2.00	M2BAX90SLA4	38100		
2.20	3.00	M2BAX100LB4	46500		
3.70	5.00	M2BAX112MLA4	62700		
5.50	7.50	M2BAX132SMA4	89000		
7.50	10.00	M2BAX132MLA4	96300		
9.30	12.50	M2BAX160MLJ4	163500		
11.00	15.00	M2BAX160MLA4	164500		
15.00	20.00	M2BAX160MLB4	200800		
18.50	25.00	M2BAX180MLA4	247500		
22.00	30.00	M2BAX180MLB4	260700		
30.00	40.00	M2BAX200MLA4	360100		
37.00	50.00	M2BAX225SMA4	453600		
45.00	60.00	M2BAX225SMB4	526900		
55.00	75.00	M2BAX250SMA4	681300		
75.00	100.00	M2BAX280SMB4	925700		
90.00	120.00	M2BAX280SMC4	1073600		
110.00	150.00	M2BAX315SMB4	1252900		
125.00	170.00	M2BAX315SC4	1444300		
132.00	180.00	M2BAX315SMC4	1461900		
160.00	215.00	M2BAX315SMD4	1702100		
180.00	240.00	M2BAX315MB4	1939300		
200.00	270.00	M2BAX315MLB4	2038000		
225.00	300.00	M2BAX355SA4	2433800		
250.00	335.00	M2BAX355SMA4	2524000		
315.00	425.00	M2BAX355SMB4	2895200		
355.00	475.00	M2BAX355SMC4	3336100		
400.00	540.00	E3BA355MLB4h	3754600		

DS\*- Data Sheet



























































GAD\*\* - General Arrangement Drawing

## Energy efficient Totally Enclosed Fan Cooled (TEFC) squirrel cage induction motors (IE3)

Enclosure conforming to protection IP55 as per IS/IEC 60034-5. Horizontal foot mounted induction motors, continuously rated, suitable for operation on 415V+/-10%, 50Hz+/-5%, A.C. supply with class 'F' insulation for 50 °C ambient temperature and altitude less than 1000 meters above sea level. Confirming to IEC:60034-1 and IS 12615:2018.

### SIX POLE

**1000 RPM**

kW	H.P	Frame size	Price (Rs)	DS*	GAD**
0.37	0.50	M2BAX80MC6	27400		
0.55	0.75	M2BAX80MLA6	29700		
0.75	1.00	M2BAX90SLA6	34700		
1.10	1.50	M2BAX90LB6	42600		
1.50	2.00	M2BAX100LKA6	50600		
2.20	3.00	M2BAX112MLA6	57700		
3.70	5.00	M2BAX132SMB6	87500		
5.50	7.50	M2BAX132MLA6	111100		
7.50	10.00	M2BAX160MLA6	152900		
9.30	12.50	M2BAX160MLJ6	183700		
11.00	15.00	M2BAX160MLB6	196400		
15.00	20.00	M2BAX180MLA6	255800		
18.50	25.00	M2BAX200MLA6	331700		
22.00	30.00	M2BAX200MLB6	356700		
30.00	40.00	M2BAX225SMA6	513500		
37.00	50.00	M2BAX250SMA6	651000		
45.00	60.00	M2BAX280SMB6	896400		
55.00	75.00	M2BAX280SMC6	1019500		
75.00	100.00	M2BAX315SMB6	1197900		
90.00	120.00	M2BAX315SMC6	1466100		
110.00	150.00	M2BAX315SMD6	1616800		
125.00	170.00	M2BAX315MB6	1893700		
132.00	180.00	M2BAX315MLB6	1911800		
160.00	215.00	M2BAX355SMA6	2138400		
200.00	270.00	M2BAX355SMB6	2500200		
250.00	335.00	M2BAX355SMC6	2683500		
275.00	370.00	E3BA355MLB6k	3603000		
315.00	425.00	E3BA355MLB6	3852200		
355***	475.00	E3BA355MLB6h	3990000		

































































DS\*- Data Sheet

GAD\*\* - General Arrangement Drawing

\*\*\*The rating is suitable for class 'F' temperature rise only

## Energy efficient Totally Enclosed Fan Cooled (TEFC) squirrel cage induction motors (IE3)

Enclosure conforming to protection IP55 as per IS/IEC 60034-5. Horizontal foot mounted induction motors, continuously rated, suitable for operation on 415V+/-10%, 50Hz+/-5%, A.C. supply with class 'F' insulation for 50 °C ambient temperature and altitude less than 1000 meters above sea level. Confirming to IEC:60034-1 and IS 12615:2018.

EIGHT POLE						750 RPM
kW	H.P	Frame size	Price (Rs)	DS*	GAD**	
0.09	0.12	M2BAX71MA8	25200			
0.12	0.16	M2BAX71MB8	25800			
0.18	0.25	M2BAX80MA8	27400			
0.25	0.34	M2BAX80MB8	29700			
0.37	0.50	M2BAX90SA8	33000			
0.55	0.75	M2BAX90LA8	40300			
0.75	1.00	M2BAX100LKA8	49500			
1.10	1.50	M2BAX100LKB8	56700			
1.50	2.00	M2BAX112MLA8	63800			
2.20	3.00	M2BAX132SMA8	99000			
3.70	5.00	M2BAX160MLA8	141700			
5.50	7.50	M2BAX160MLB8	167400			
7.50	10.00	M2BAX160MLC8	205700			
9.30	12.50	M2BAX180MLA8	266600			
11.00	15.00	M2BAX180MLB8	282200			
15.00	20.00	M2BAX200MLA8	381200			
18.50	25.00	M2BAX225SMA8	482800			
22.00	30.00	M2BAX225SMB8	535100			
30.00	40.00	M2BAX250SMA8	668900			
37.00	50.00	M2BAX280SA8	972000			
45.00	60.00	M2BAX280SB8	1115600			
55.00	75.00	M2BAX315SMA8	1322500			
75.00	100.00	M2BAX315SMB8	1575000			
90.00	120.00	M2BAX315SMC8	1785000			
110.00	150.00	M2BAX315MLA8	1890000			
132.00	180.00	M2BAX355SMA8	2310000			
150.00	200.00	M2BAX355SB8	2640000			
160.00	215.00	M2BAX355SMB8	2675000			
180.00	240.00	M2BAX355SC8	2805000			
200.00	270.00	M2BAX355SMC8	2889000			
225.00	300.00	E3BA355MLB8h	3960000			
250***	335.00	E3BA355MLB8k	4033000			

DS\*- Data Sheet

GAD\*\* - General Arrangement Drawing











\*\*\*The rating is suitable for class 'F' temperature rise only

## Energy efficient Totally Enclosed Fan Cooled (TEFC) squirrel cage induction motors (IE2/IE3)

Enclosure conforming to protection IP55 as per IS/IEC 60034-5. Horizontal foot mounted induction motors, continuously rated, suitable for operation on 415V+/-10%, 50Hz+/-5%, A.C. supply with class 'F' insulation for 50 °C ambient temperature and altitude less than 1000 meters above sea level. Confirming to IEC:60034-1 and IS 12615:2018.

Type	Three phase squirrel cage induction motor
Enclosure	Totally enclosed fan cooled
Voltage +/- variation	415V+/- 10%
Frequency +/- variation	50Hz +/- 5%
Combined +/- variation	10% ( Absolute Sum)
Mounting Reference	As per IS 1231 : IS 2223
Altitude	Upto 1000 M
Relative Humidity	Upto 100%
Degree of Protection	IP55 as per IEC 60034-5
Class of Insulation	Class F
Ambient Temp./ Temp. Rise	50 Deg C/ 70 Deg C
Duty	S1 / Continuous
Position of terminal box	Top at drive end
Connection / No. of leads	Upto 2HP- STAR / 3 Leads > 2 HP- DELTA / 6 Leads
Direction of Rotation	Bi-directional
Grease Type	Lithium complex grease
Greasing arrangement	Online greasing arrangement for frame 280 and above
Cooling	IC411 (TEFC)
Paint	Polyurethane (Shade: Munsell blue 8B 4.5/3.25)

### Terminal Box Drawings :

Drawing No.	Applicable Frames
3GZH500007-1 	M2BAX 71 IE2, IE3 2-8P
3GZH500008-3 	M2BAX 80-90 IE2, IE3 2-8P
3GZH500010-3 	M2BAX 100-132 IE2, IE3 2-8P
3GZH101716-15 	M2BAX 160-200 IE2, M2BAX 160-180 IE3 2-8P
3GZH101722-15 	M2BAX 225-250 IE2, M2BAX 200-250 IE3 2-8P
3GZH500028-228 	M2BAX 280 IE2, IE3 2-8P
3GZH500031-333 	M2BAX 315 IE2, IE3 2-8P
3GZH500035-174 	M2BAX 355 IE2, IE3 2-8P
3GYN492132 	E2BA-E3BA 355 FRAME size 7 for cable Size 2R x 3C x 300 sqmm
M46892 	E2BA-E3BA 355 FRAME standard for cable Size 2R x 3C x 240 sqmm

## Energy Efficient Totally Enclosed Fan Cooled (TEFC) High Output Squirrel Cage Induction Motors (IE2)

Enclosure conforming to protection IP55) Horizontal foot mounted induction motors, continuously rated, suitable for operation on 415V+/-10%, 50Hz+/-5%, A.C. supply with class 'F' insulation for ambient temperature as per chart and altitude less than 1000 meters above MSL and confirming to IEC:60034-1 & IS 12615:2018.

### TWO POLE

kW	H.P	Frame size	Amb / Temp. rise		Price (Rs)
110.00	150.00	M3BP280SMC2	50/B	45/B	1208900
132.00	180.00	M3BP280MLA2	50/B	45/B	1485600
160.00	215.00	M3BP280MLB2	50/B	45/B	1623100
250.00	335.00	M3BP315LKA2	50/F	45/B	2220900
315.00	425.00	M3BP315LKC2	50/F	45/B	2447500
400.00	540.00	M3BP355MLA2	50/F	45/B	3391900
450.00	605.00	M3BP355MLB2	50/F	45/B	3730700
500.00	670.00	M3BP355LKA2	50/F	45/B	4103600
560.00	750.00	M3BP355LKB2	50/F	45/B	4514400

### FOUR POLE

kW	H.P	Frame size	Amb / Temp. rise		Price (Rs)
110.00	150.00	M3BP280SMC4	50/B	45/B	1095600
132.00	180.00	M3BP280MLA4	50/B	45/B	1269400
160.00	215.00	M3BP280MLB4	50/B	45/B	1474000
250.00	335.00	M3BP315LKA4	50/F	45/B	2147200
280.00	375.00	M3BP315LKB4	50/F	45/B	2476700
315.00	425.00	M3BP315LKC4	50/F	45/B	2494800
400.00	540.00	M3BP355MLA4	50/F	45/B	3325300
450.00	605.00	M3BP355MLB4	50/F	45/B	3858800
500.00	670.00	M3BP355LKA4	50/B	45/B	3987500
560.00	750.00	M3BP355LKB4	50/F	45/B	4071700

## Energy Efficient Totally Enclosed Fan Cooled (TEFC) High Output Squirrel Cage Induction Motors (IE2)

Enclosure confirming to protection IP55) Horizontal foot mounted induction motors, continuously rated, suitable for operation on 415V+/-10%, 50Hz+/-5%, A.C. supply with class 'F' insulation for ambient temperature as per chart and altitude less than 1000 meters above MSL and confirming to IEC:60034-1 & IS 12615:2018.

### SIX POLE

kW	H.P	Frame size	Amb / Temp. rise		Price (Rs)
75.00	100.00	M3BP280SMC6	50/F	45/B	1036200
90.00	120.00	M3BP280MLA6	50/B	45/B	1279300
110.00	150.00	M3BP280MLB6	50/B	45/B	1425600
160.00	215.00	M3BP315LKA6	50/B	45/B	1823800
180.00	240.00	M3BP315LKB6	50/B	45/B	2139500
200.00	270.00	M3BP315LKC6	50/B	45/B	2187900
355.00	475.00	M3BP355LKA6	50/F	45/B	3439200
400.00	540.00	M3BP355LKB6	50/F	45/B	4154700

### EIGHT POLE

kW	H.P	Frame size	Amb / Temp. rise		Price (Rs)
55.00	75.00	M3BP280SMC8	50/B	45/B	1141800
75.00	100.00	M3BP280MLB8	50/B	45/B	1369500
132.00	180.00	M3BP315LKA8	50/B	45/B	1956400
150.00	200.00	M3BP315LKB8	50/F	45/B	2115300
160.00	215.00	M3BP315LKC8	50/F	45/B	2186800
315.00	425.00	M3BP355LKB8	50/F	45/B	4424200

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## Product note

### New general performance IE4 motors

ABB is the first motor manufacturer to launch a low voltage IE4 (International Efficiency Class 4) range based on induction technology. The motors cover 7.5 – 55 kW in frame sizes 160 – 250. They are available for 415 V - 690 V, 50 Hz in 2, 4 and 6 pole versions.

IE4 motors meet the energy efficiency requirements defined in IS Standard 12615:2018.

#### Platform

ABB's IE4 motors are based on the robust and well-proven induction platform. They have the same mechanical design as the other ABB high efficiency motors, and they meet IE4 requirements without using permanent magnets.

#### Benefits

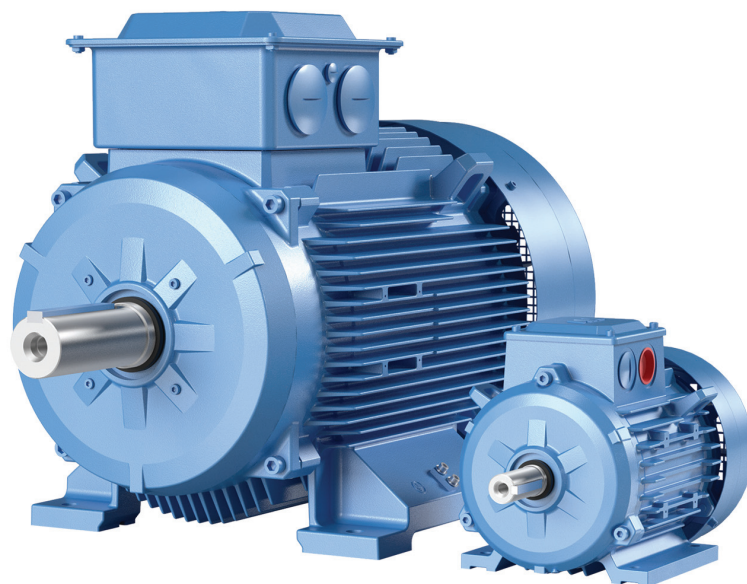
IE4 motors deliver the highest efficiency currently available in the market, enabling motor users to maximize energy savings. As a result they are especially suited for applications with high operating hours.

By using an IE4 motor in place of a lower efficiency product it is possible to achieve a significant efficiency improvement, which will produce substantial energy savings over the motor's lifetime.

At the same time, the reduction in energy consumption means that overall carbon dioxide emissions are decreased – a factor which will help plants to meet their environmental commitments.

A further benefit of higher efficiency is cooler running, which means that these motors operate even more reliably than less efficient alternatives. The combination of high efficiency and reliability enables motor users to optimize the cost of motor ownership.

(Prices available on request).



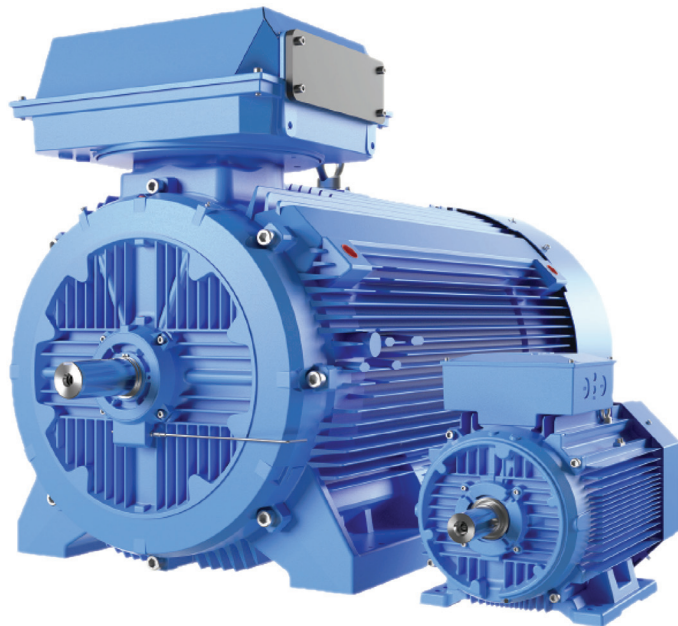
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## Product note

### Process performance IE2 and IE3 motors (M3BP 400 / 450 frame)

ABB Process performance induction motors are tough, high quality products designed for durability in the most demanding environments and applications. They are ideally suited to process industries and heavy duty applications – sectors like mining, cement and paper - where motors have to meet high requirements for reliability, availability and efficiency in harsh conditions.

- Provide great flexibility for specific solutions and can be individually designed to the exact demands of the application
  - Wide range of options and accessories available
  - High reliability and up time
  - Fulfilling IE2, IE3 efficiency class as per IS 12615:2018
  - Output - 315 kW to 1 MW, M3BP frame sizes 400 to 450 cast iron
- (Prices available on request).





**Ex db****Totally Enclosed Fan Cooled (TEFC) squirrel cage induction  
flameproof motors (Standard efficiency)**

Enclosure confirming to protection IP55 as per IS/IEC 60034-5:2000 Horizontal foot mounted induction motors, continuously rated, suitable for operation on 415V+/-10%, 50Hz+/-5%, A.C. supply with class 'F' insulation for 0 - 50 °C ambient temperature with Ex marking Ex db IIB T4 GB and altitude less than 1000 meters above sea level. Confirming to IS/IEC:60079-1(2014). For operation in hazardous location classified as Zone 1 and 2 areas as per IS:5572

TWO POLE			3000 RPM
kW	H.P	Frame size	Price (Rs)
0.37	0.50	JHX71C2	34700
0.55	0.75	JHX71D2	38500
0.75	1.00	JHX80C2	40200
1.10	1.50	JHX80D2	44000
1.50	2.00	JHX90SLC2	50600
2.20	3.00	JHX90SLD2	61600
3.70	5.00	JHX100LB2	79800
5.50	7.50	JHX132SMB2	112800
7.50	10.00	JHX132SMC2	123200
9.30	12.50	JHX132SME2	175500
11.00	15.00	JHX160MLB2	216700
15.00	20.00	JHX160MLD2	262900
18.50	25.00	JHX160MLE2	299200
22.00	30.00	JHX180MLB2	369600
30.00	40.00	JHX200MLB2	480700
37.00	50.00	JHX200MLC2	621500

FOUR POLE			1500 RPM
kW	H.P	Frame size	Price (Rs)
0.25	0.33	JHX71B4	33600
0.37	0.50	JHX71C4	34100
0.55	0.75	JHX80D4	37400
0.75	1.00	JHX80E4	39100
1.10	1.50	JHX90SLD4	45700
1.50	2.00	JHX90SLE4	48400
2.20	3.00	JHX100LB4	63300
3.70	5.00	JHX112MB4	78700
5.50	7.50	JHX132SMC4	106700
7.50	10.00	JHX132SME4	121600
9.30	12.50	JHX160MLB4	185900
11.00	15.00	JHX160MLD4	196400
15.00	20.00	JHX160MLE4	239300
18.50	25.00	JHX180MLB4	282200
22.00	30.00	JHX180MLC4	324500
30.00	40.00	JHX200MLC4	436700

**Ex db**

## Totally Enclosed Fan Cooled (TEFC) squirrel cage induction flameproof motors (Standard efficiency)

Enclosure confirming to protection IP55 as per IS/IEC 60034-5:2000 Horizontal foot mounted induction motors, continuously rated, suitable for operation on 415V+/-10%, 50Hz+/-5%, A.C. supply with class 'F' insulation for 0 - 50 °C ambient temperature with Ex marking Ex db IIB T4 GB and altitude less than 1000 meters above sea level. Confirming to IS/IEC:60079-1(2014). For operation in hazardous location classified as Zone 1 and 2 areas as per IS:5572

**SIX POLE****1000 RPM**

<b>kW</b>	<b>H.P</b>	<b>Frame size</b>	<b>Price (Rs)</b>
0.25	0.33	JHX80D6	39100
0.37	0.50	JHX80D6	39100
0.55	0.75	JHX80E6	40200
0.75	1.00	JHX90SLD6	46800
1.10	1.50	JHX90SLE6	50100
1.50	2.00	JHX100LB6	70400
2.20	3.00	JHX112MB6	81400
3.70	5.00	JHX132SMC6	107800
5.50	7.50	JHX132SME6	130400
7.50	10.00	JHX160MLC6	201900
9.30	12.50	JHX160MLD6	234900
11.00	15.00	JHX160MLE6	247000
15.00	20.00	JHX180MLC6	338800
18.50	25.00	JHX200MLB6	415300
22.00	30.00	JHX200MLC6	450500

**EIGHT POLE****750 RPM**

<b>kW</b>	<b>H.P</b>	<b>Frame size</b>	<b>Price (Rs)</b>
0.37	0.50	JHX90SLA8	46800
0.55	0.75	JHX90SLD8	51200
0.75	1.00	JHX100LA8	61600
1.10	1.50	JHX100LB8	71500
1.50	2.00	JHX112MA8	84200
2.20	3.00	JHX132SMB8	111100
3.70	5.00	JHX160MLB8	179900
5.50	7.50	JHX160MLD8	206800
7.50	10.00	JHX160MLE8	251900
9.30	12.50	JHX180MLA8	324000
11.00	15.00	JHX180MLB8	341000
15.00	20.00	JHX200MLC8	462000

**Ex db****Energy Efficient Totally Enclosed Fan Cooled (TEFC) Flame proof Squirrel Cage Induction Motors (IE2)**

Enclosure confirming to protection IP55 as per IEC 60034-5:2000. Horizontal foot mounted induction motors, continuously rated, suitable for operation on 415V+/-10%, 3 phase 50Hz+/-5%, A.C. supply with class 'F' insulation for 45 °C ambient temperature with Ex marking Ex db IIB T4 Gb, and altitude less than 1000M above MSL and Confirming to IS/IEC:60079-1(2014) for operation in hazardous location classified as Zone 1 and 2 areas as per IS:5572

**TWO POLE****3000 RPM**

<b>kW</b>	<b>H.P</b>	<b>Frame size</b>	<b>Price (Rs)</b>
0.75	1.00	M2JAP80MB2	54200
1.10	1.50	M2JAP80MC2	60400
1.50	2.00	M2JAP90SLB2	64900
2.20	3.00	M2JAP90SLC2	80600
3.70	5.00	M2JAP100LC2	107300
5.50	7.50	M2JAP132SMB2	152000
7.50	10.00	M2JAP132SMC2	167900
9.30	12.50	M2JAP160MLJ2	272900
11.00	15.00	M2JAP160MLA2	303300
15.00	20.00	M2JAP160MLB2	334500
18.50	25.00	M2JAP160MLC2	379800
22.00	30.00	M2JAP180MLA2	450700
30.00	40.00	M2JAP200MLA2	606700
37.00	50.00	M2JAP200MLC2	785600
45.00	60.00	M2JAP225SMB2	997300
55.00	75.00	M2JAP250SMA2	1320700

**FOUR POLE****1500 RPM**

<b>kW</b>	<b>H.P</b>	<b>Frame size</b>	<b>Price (Rs)</b>
0.55	0.75	M2JAP80MA4	51200
0.75	1.00	M2JAP80MD4	53100
1.10	1.50	M2JAP90SLB4	63500
1.50	2.00	M2JAP90SLD4	65600
2.20	3.00	M2JAP100LC4	83300
3.70	5.00	M2JAP112MB4	105500
5.50	7.50	M2JAP132SMB4	145100
7.50	10.00	M2JAP132SMC4	165300
9.30	12.50	M2JAP160MLJ4	235500
11.00	15.00	M2JAP160MLC4	261600
15.00	20.00	M2JAP160MLE4	318100
18.50	25.00	M2JAP180MLA4	361100
22.00	30.00	M2JAP180MLB4	429300
30.00	40.00	M2JAP200MLB4	576100
37.00	50.00	M2JAP225SMB4	717600
45.00	60.00	M2JAP225SMC4	907400
55.00	75.00	M2JAP250SMA4	1202300

**Ex db**

## Energy Efficient Totally Enclosed Fan Cooled (TEFC) Flame proof Squirrel Cage Induction Motors (IE2)

Enclosure confirming to protection IP55 as per IEC 60034-5:2000. Horizontal foot mounted induction motors, continuously rated, suitable for operation on 415V+/-10%, 3 phase 50Hz+/-5%, A.C. supply with class 'F' insulation for 45 °C ambient temperature with Ex marking Ex db IIB T4 Gb, and altitude less than 1000M above MSL and Confirming to IS/IEC:60079-1(2014) for operation in hazardous location classified as Zone 1 and 2 areas as per IS:5572

**SIX POLE****1000 RPM**

<b>kW</b>	<b>H.P</b>	<b>Frame size</b>	<b>Price (Rs)</b>
0.25	0.34	M2JAP80MJ6	51200
0.37	0.50	M2JAP80MA6	53800
0.55	0.75	M2JAP80MB6	55000
0.75	1.00	M2JAP90SLC6	64000
1.10	1.50	M2JAP90SLE6	69300
1.50	2.00	M2JAP100L6	95400
2.20	3.00	M2JAP112MC6	116500
3.70	5.00	M2JAP132SMJ6	146900
5.50	7.50	M2JAP132SMF6	177900
7.50	10.00	M2JAP160MLA6	281700
9.30	12.50	M2JAP160MLJ6	317000
11.00	15.00	M2JAP160MLB6	330100
15.00	20.00	M2JAP180MLB6	441300
18.50	25.00	M2JAP200MLA6	548900
22.00	30.00	M2JAP200MLB6	595400
30.00	40.00	M2JAP225SMB6	933700
37.00	50.00	M2JAP250SMA6	1240000

**EIGHT POLE****750 RPM**

<b>kW</b>	<b>H.P</b>	<b>Frame size</b>	<b>Price (Rs)</b>
0.18	0.25	M2JAP80MA8	58300
0.25	0.34	M2JAP80MB8	61400
0.37	0.50	M2JAP90SLB8	64600
0.55	0.75	M2JAP90SLC8	66400
0.75	1.00	M2JAP100LA8	80400
1.10	1.50	M2JAP100LB8	93500
1.50	2.00	M2JAP112MC8	112100
2.20	3.00	M2JAP132SMA8	148200
3.70	5.00	M2JAP160MLJ8	252000
5.50	7.50	M2JAP160MLB8	281700
7.50	10.00	M2JAP160MLC8	343500
9.30	12.50	M2JAP180MLJ8	436700
11.00	15.00	M2JAP180MLB8	460000
15.00	20.00	M2JAP200MLA8	621800
18.50	25.00	M2JAP225SMA8	772000
22.00	30.00	M2JAP225SMB8	1016000
30.00	40.00	M2JAP250SMA8	1290700

Ex db

## Energy Efficient Totally Enclosed Fan Cooled (TEFC) Flame proof Squirrel Cage Induction Motors (IE3)

Enclosure confirming to protection IP55 as per IEC 60034-5:2000. Horizontal foot mounted induction motors, continuously rated, suitable for operation on 415V+/-10%, 3 phase 50Hz+/-5%, A.C. supply with class 'F' insulation for 45 °C ambient temperature with Ex marking Ex db IIB T4 Gb, and altitude less than 1000M above MSL and Confirming to IS/IEC:60079-1(2014) for operation in hazardous location classified as Zone 1 and Zone 2 areas as per IS:5572

### TWO POLE

3000 RPM

kW	H.P	Frame size	Price (Rs)
0.75	1.00	M2JAP80MD2	58000
1.10	1.50	M2JAP80MG2	64600
1.50	2.00	M2JAP90SLB2	69400
2.20	3.00	M2JAP90LC2	86200
3.70	5.00	M2JAP100LKB2	109600
5.50	7.50	M2JAP132SMF2	170800
7.50	10.00	M2JAP132SMG2	179400
9.30	12.50	M2JAP160MLJ2	286400
11.00	15.00	M2JAP160MLA2	318200
15.00	20.00	M2JAP160MLB2	357500
18.50	25.00	M2JAP160MLC2	406000
22.00	30.00	M2JAP180MLA2	481600
30.00	40.00	M2JAP200MLA2	677800
37.00	50.00	M2JAP200MLB2	839700
45.00	60.00	M2JAP225SMA2	1065900
55.00	75.00	M2JAP250SMA2	1411400

### FOUR POLE

1500 RPM

kW	H.P	Frame size	Price (Rs)
0.55	0.75	M2JAP80MLD4	54700
0.75	1.00	M2JAP80MLG4	56800
1.10	1.50	M2JAP90SLC4	65800
1.50	2.00	M2JAP90LD4	84900
2.20	3.00	M2JAP100LKA4	94300
3.70	5.00	M2JAP112MF4	112900
5.50	7.50	M2JAP132SMF4	155200
7.50	10.00	M2JAP132SMG4	176800
9.30	12.50	M2JAP160MLJ4	267400
11.00	15.00	M2JAP160MLA4	279600
15.00	20.00	M2JAP160MLB4	340000
18.50	25.00	M2JAP180MLA4	386100
22.00	30.00	M2JAP180MLB4	458900
30.00	40.00	M2JAP200MLA4	615700
37.00	50.00	M2JAP225SMA4	801900
45.00	60.00	M2JAP225SMB4	1014000
55.00	75.00	M2JAP250SMA4	1285100

**Ex db**

## Energy Efficient Totally Enclosed Fan Cooled (TEFC) Flame proof Squirrel Cage Induction Motors (IE3)

Enclosure confirming to protection IP55 as per IEC 60034-5:2000. Horizontal foot mounted induction motors, continuously rated, suitable for operation on 415V+/-10%, 3 phase 50Hz+/-5%, A.C. supply with class 'F' insulation for 45 °C ambient temperature with Ex marking Ex db IIB T4 Gb, and altitude less than 1000M above MSL and Confirming to IS/IEC:60079-1(2014) for operation in hazardous location classified as Zone 1 and Zone 2 areas as per IS:5572

**SIX POLE****1000 RPM**

<b>kW</b>	<b>H.P</b>	<b>Frame size</b>	<b>Price (Rs)</b>
0.25	0.34	M2JAP80MA6	54600
0.37	0.50	M2JAP80MD6	57400
0.55	0.75	M2JAP80MLG6	59100
0.75	1.00	M2JAP90SLD6	71900
1.10	1.50	M2JAP90LF6	74000
1.50	2.00	M2JAP100LE6	102000
2.20	3.00	M2JAP112MJ6	118500
3.70	5.00	M2JAP132SMJ6	165000
5.50	7.50	M2JAP132SMH6	190100
7.50	10.00	M2JAP160MLA6	288100
9.30	12.50	M2JAP160MLJ6	337000
11.00	15.00	M2JAP160MLB6	352800
15.00	20.00	M2JAP180MLA6	451200
18.50	25.00	M2JAP200MLA6	561100
22.00	30.00	M2JAP200MLB6	608700
30.00	40.00	M2JAP225SMA6	997900
37.00	50.00	M2JAP250SMA6	1325400

## Smoke venting energy efficient Totally Enclosed Fan Cooled (TEFC) squirrel cage motors (IE2)

Enclosure conforming to protection IP55 as per IS/IEC 60034-5. Horizontal foot mounted induction motors, continuously rated, suitable for operation on 415V+/-10%, 50Hz+/-5%, A.C. supply with class 'H' insulation for 50 °C ambient temperature continuous, and 250 °C for up to 2 hours. Altitude less than 1000 meters above sea level.

Reference standard: IEC:60034-30-1:2014, IEC:60034-1:2010 & BS EN12101-3:2002

TWO POLE			3000 RPM
kW	H.P	Frame size	Price (Rs)
0.37	0.50	S2BAX71MA2	22600
0.55	0.75	S2BAX71MB2	25300
0.75	1.00	S2BAX80MA2	25900
1.10	1.50	S2BAX80MB2	28600
1.50	2.00	S2BAX90SA2	35200
2.20	3.00	S2BAX90LA2	42900
3.70	5.00	S2BAX100LC2	58300
5.50	7.50	S2BAX132SA2	85300
7.50	10.00	S2BAX132SB2	89100
9.30	12.50	S2BAX160MLJ2	147400
11.00	15.00	S2BAX160MLA2	162800
15.00	20.00	S2BAX160MLB2	187000
18.50	25.00	S2BAX160MLC2	232700
22.00	30.00	S2BAX180MLA2	252500
30.00	40.00	S2BAX200MLA2	391100
37.00	50.00	S2BAX200MLB2	455400
45.00	60.00	S2BAX225SMA2	586300
55.00	75.00	S2BAX250SMA2	808500
FOUR POLE			1500 RPM
kW	H.P	Frame size	Price (Rs)
0.37	0.50	S2BAX71MB4	23700
0.55	0.75	S2BAX80MA4	26400
0.75	1.00	S2BAX80MB4	28600
1.10	1.50	S2BAX90SA4	33000
1.50	2.00	S2BAX90LA4	38000
2.20	3.00	S2BAX100LA4	49000
3.70	5.00	S2BAX112MA4	61100
5.50	7.50	S2BAX132SA4	80300
7.50	10.00	S2BAX132MA4	92400
9.30	12.50	S2BAX160MLJ4	151800
11.00	15.00	S2BAX160MLA4	156200
15.00	20.00	S2BAX160MLB4	185400
18.50	25.00	S2BAX180MLA4	248600
22.00	30.00	S2BAX180MLB4	266200
30.00	40.00	S2BAX200MLA4	379000
37.00	50.00	S2BAX225SMA4	464200
45.00	60.00	S2BAX225SMB4	548900
55.00	75.00	S2BAX250SMA4	751900

## Smoke venting energy efficient Totally Enclosed Fan Cooled (TEFC) squirrel cage motors (IE2)

Enclosure conforming to protection IP55 as per IS/IEC 60034-5. Horizontal foot mounted induction motors, continuously rated, suitable for operation on 415V+/-10%, 50Hz+/-5%, A.C. supply with class 'H' insulation for 50 °C ambient temperature continuous, and 250 °C for up to 2 hours. Altitude less than 1000 meters above sea level.

Reference standard: IEC:60034-30-1:2014, IEC:60034-1:2010 & BS EN12101-3:2002

SIX POLE			1000 RPM
kW	H.P	Frame size	Price (Rs)
0.37	0.50	S2BAX80MA6	28100
0.55	0.75	S2BAX80MB6	28600
0.75	1.00	S2BAX90SA6	35200
1.10	1.50	S2BAX90LA6	39100
1.50	2.00	S2BAX100LA6	48400
2.20	3.00	S2BAX112MA6	58300
3.70	5.00	S2BAX132SB6	87500
5.50	7.50	S2BAX132MB6	99000
7.50	10.00	S2BAX160MLA6	154600
9.30	12.50	S2BAX160MLJ6	179900
11.00	15.00	S2BAX160MLB6	191400
15.00	20.00	S2BAX180MLA6	256300
18.50	25.00	S2BAX200MLA6	349300
22.00	30.00	S2BAX200MLB6	368500
30.00	40.00	S2BAX225SMA6	548900
37.00	50.00	S2BAX250SMA6	752400

Type	Three phase squirrel cage induction motor
Enclosure	Totally enclosed fan cooled
Voltage +/- variation	415V+/- 10%
Frequency +/- variation	50Hz +/- 5%
Combined +/- variation	10% (Absolute sum)
Mounting reference	As per IEC 60072-1
Altitude	Upto 1000 M
Relative humidity	Upto 100%
Degree of protection	IP55 as per IEC 60034-5
Class of insulation	Class 'H'
Ambient temp./ Temp. rise	50 Deg C/ 70 Deg C
Duty	S1 / Continuous
Terminal box	Can be provided as Optional*
Connection / No. of leads	Upto 2HP- 1no. 3 core flying lead of 1 meter length / Above 2HP - 1no. 6 core flying lead of 1 meter length
Direction of rotation	Bi-directional
Grease type	Lithium complex grease
Greasing arrangement	Greased for life, Sealed Bearings
Cooling	IC411 (TEFC)
Paint	RAL 9007(Shade: Grey aluminium)

\*Additional cost for terminal box

71 - 132 Frame	Rs. 500/-
160 - 200 Frame	Rs. 1000/-
225 - 250 Frame	Rs. 1500/-



## Smoke venting energy efficient Totally Enclosed Fan Cooled (TEFC) squirrel cage motors (IE2)

Enclosure conforming to protection IP55 as per IS/IEC 60034-5. Horizontal foot mounted induction motors, continuously rated, suitable for operation on 415V+/-10%, 50Hz+/-5%, A.C. supply with class 'H' insulation for 50 °C ambient temperature continuous, and 300 °C for up to 2 hours. Altitude less than 1000 meters above sea level.

Reference standard: IEC:60034-30-1:2014, IEC:60034-1:2010 & BS EN12101-3:2002

TWO POLE			3000 RPM
kW	H.P	Frame size	Price (Rs)
0.37	0.50	S2BAX71MA2	23700
0.55	0.75	S2BAX71MB2	25900
0.75	1.00	S2BAX80MA2	26400
1.10	1.50	S2BAX80MB2	29200
1.50	2.00	S2BAX90SA2	35800
2.20	3.00	S2BAX90LA2	44600
3.70	5.00	S2BAX100LC2	58900
5.50	7.50	S2BAX132SA2	88600
7.50	10.00	S2BAX132SB2	92400
9.30	12.50	S2BAX160MLJ2	159500
11.00	15.00	S2BAX160MLA2	169400
15.00	20.00	S2BAX160MLB2	195300
18.50	25.00	S2BAX160MLC2	242000
22.00	30.00	S2BAX180MLA2	262400
30.00	40.00	S2BAX200MLA2	407000
37.00	50.00	S2BAX200MLB2	473000
45.00	60.00	S2BAX225SMA2	609400
55.00	75.00	S2BAX250SMA2	840400
FOUR POLE			1500 RPM
kW	H.P	Frame size	Price (Rs)
0.37	0.50	S2BAX71MB4	24800
0.55	0.75	S2BAX80MA4	27500
0.75	1.00	S2BAX80MB4	29700
1.10	1.50	S2BAX90SA4	34100
1.50	2.00	S2BAX90LA4	39600
2.20	3.00	S2BAX100LA4	50600
3.70	5.00	S2BAX112MA4	63800
5.50	7.50	S2BAX132SA4	83600
7.50	10.00	S2BAX132MA4	96800
9.30	12.50	S2BAX160MLJ4	157900
11.00	15.00	S2BAX160MLA4	162800
15.00	20.00	S2BAX160MLB4	192500
18.50	25.00	S2BAX180MLA4	258500
22.00	30.00	S2BAX180MLB4	276700
30.00	40.00	S2BAX200MLA4	394400
37.00	50.00	S2BAX225SMA4	482900
45.00	60.00	S2BAX225SMB4	570900
55.00	75.00	S2BAX250SMA4	781600

## Smoke venting energy efficient Totally Enclosed Fan Cooled (TEFC) squirrel cage motors (IE2)

Enclosure conforming to protection IP55 as per IS/IEC 60034-5. Horizontal foot mounted induction motors, continuously rated, suitable for operation on 415V+/-10%, 50Hz+/-5%, A.C. supply with class 'H' insulation for 50 °C ambient temperature continuous, and 300 °C for up to 2 hours. Altitude less than 1000 meters above sea level.

Reference standard: IEC:60034-30-1:2014, IEC:60034-1:2010 & BS EN12101-3:2002

SIX POLE			1000 RPM
kW	H.P	Frame size	Price (Rs)
0.37	0.50	S2BAX80MA6	29200
0.55	0.75	S2BAX80MB6	30300
0.75	1.00	S2BAX90SA6	36300
1.10	1.50	S2BAX90LA6	40700
1.50	2.00	S2BAX100LA6	50600
2.20	3.00	S2BAX112MA6	60500
3.70	5.00	S2BAX132SB6	91300
5.50	7.50	S2BAX132MB6	102900
7.50	10.00	S2BAX160MLA6	160600
9.30	12.50	S2BAX160MLJ6	187000
11.00	15.00	S2BAX160MLB6	199100
15.00	20.00	S2BAX180MLA6	266200
18.50	25.00	S2BAX200MLA6	363000
22.00	30.00	S2BAX200MLB6	383400
30.00	40.00	S2BAX225SMA6	570400
37.00	50.00	S2BAX250SMA6	782700

Type	Three phase squirrel cage induction motor
Enclosure	Totally enclosed fan cooled
Voltage +/- variation	415V+/- 10%
Frequency +/- variation	50Hz +/- 5%
Combined +/- variation	10% ( Absolute sum)
Mounting reference	As per IEC 60072-1
Altitude	Upto 1000 M
Relative humidity	Upto 100%
Degree of protection	IP55 as per IEC 60034-5
Class of insulation	Class 'H'
Ambient temp./ Temp. rise	50 Deg C/ 70 Deg C
Duty	S1 / Continuous
Terminal box	Optional*
Connection / No. of leads	Upto 2HP- 1no. 3 core flying lead of 1 meter length / Above 2HP - 1no. 6 core flying lead of 1 meter length
Direction of rotation	Bi-directional
Grease type	Lithium complex grease
Greasing arrangement	Greased for life, sealed bearings
Cooling	IC411 (TEFC)
Paint	RAL 9007(Shade: Grey aluminium)

\*Additional cost for terminal box

71 - 132 Frame  
160 - 200 Frame  
225 - 250 Frame

Rs. 500/-  
Rs. 1000/-  
Rs. 1500/-

## Smoke venting energy efficient Totally Enclosed Fan Cooled (TEFC) squirrel cage motors (IE3)

Enclosure conforming to protection IP55 as per IS/IEC 60034-5. Horizontal foot mounted induction motors, continuously rated, suitable for operation on 415V+/-10%, 50Hz+/-5%, A.C. supply with class 'H' insulation for 50 °C ambient temperature continuous, and 250 °C for up to 2 hours. Altitude less than 1000 meters above sea level.

Reference standard: IEC:60034-30-1:2014, IEC:60034-1:2010 & BS EN12101-3:2002

TWO POLE			3000 RPM
kW	H.P	Frame size	Price (Rs)
0.37	0.50	S3BAX71MC2	25900
0.55	0.75	S3BAX71MB2	28600
0.75	1.00	S3BAX80MC2	30800
1.10	1.50	S3BAX80MD2	38500
1.50	2.00	S3BAX90SB2	39100
2.20	3.00	S3BAX90SLA2	49000
3.70	5.00	S3BAX100LKB2	74800
5.50	7.50	S3BAX132SMA2	99000
7.50	10.00	S3BAX132SMB2	107300
9.30	12.50	S3BAX160MLJ2	177100
11.00	15.00	S3BAX160MLA2	187000
15.00	20.00	S3BAX160MLB2	215100
18.50	25.00	S3BAX160MLC2	269500
22.00	30.00	S3BAX180MLA2	290400
30.00	40.00	S3BAX200MLA2	429000
37.00	50.00	S3BAX200MLB2	523600
45.00	60.00	S3BAX225SMA2	674300
55.00	75.00	S3BAX250SMA2	909700
FOUR POLE			1500 RPM
kW	H.P	Frame size	Price (Rs)
0.37	0.50	S3BAX71MLA4	27000
0.55	0.75	S3BAX80MC4	31900
0.75	1.00	S3BAX80MLA4	32500
1.10	1.50	S3BAX90SB4	38000
1.50	2.00	S3BAX90SLA4	43500
2.20	3.00	S3BAX100LB4	53400
3.70	5.00	S3BAX112MLA4	70400
5.50	7.50	S3BAX132SMA4	93500
7.50	10.00	S3BAX132MLA4	107300
9.30	12.50	S3BAX160MLJ4	188700
11.00	15.00	S3BAX160MLA4	190900
15.00	20.00	S3BAX160MLB4	224400
18.50	25.00	S3BAX180MLA4	292600
22.00	30.00	S3BAX180MLB4	305300
30.00	40.00	S3BAX200MLA4	412500
37.00	50.00	S3BAX225SMA4	534600
45.00	60.00	S3BAX225SMB4	631400
55.00	75.00	S3BAX250SMA4	849200

## Smoke venting energy efficient Totally Enclosed Fan Cooled (TEFC) squirrel cage motors (IE3)

Enclosure conforming to protection IP55 as per IS/IEC 60034-5. Horizontal foot mounted induction motors, continuously rated, suitable for operation on 415V+/-10%, 50Hz+/-5%, A.C. supply with class 'H' insulation for 50 °C ambient temperature continuous, and 250 °C for up to 2 hours. Altitude less than 1000 meters above sea level.

Reference standard: IEC:60034-30-1:2014, IEC:60034-1:2010 & BS EN12101-3:2002

SIX POLE			1000 RPM
kW	H.P	Frame size	Price (Rs)
0.37	0.50	S3BAX80MC6	32500
0.55	0.75	S3BAX80MLA6	33000
0.75	1.00	S3BAX90SLA6	38000
1.10	1.50	S3BAX90LB6	50600
1.50	2.00	S3BAX100LKA6	58900
2.20	3.00	S3BAX112MLA6	64900
3.70	5.00	S3BAX132SMB6	100700
5.50	7.50	S3BAX132MLA6	115500
7.50	10.00	S3BAX160MLA6	176600
9.30	12.50	S3BAX160MLJ6	224400
11.00	15.00	S3BAX160MLB6	236500
15.00	20.00	S3BAX180MLA6	281100
18.50	25.00	S3BAX200MLA6	390500
22.00	30.00	S3BAX200MLB6	404800
30.00	40.00	S3BAX225SMA6	609400
37.00	50.00	S3BAX250SMA6	856900

Type	Three phase squirrel cage induction motor
Enclosure	Totally enclosed fan cooled
Voltage +/- variation	415V+/- 10%
Frequency +/- variation	50Hz +/- 5%
Combined +/- variation	10% (Absolute sum)
Mounting reference	As per IEC 60072-1
Altitude	Upto 1000 M
Relative humidity	Upto 100%
Degree of protection	IP55 as per IEC 60034-5
Class of insulation	Class 'H'
Ambient temp./ temp. Rise	50 Deg C/ 70 Deg C
Duty	S1 / Continuous
Terminal box	Optional*
Connection / no. of leads	Upto 2HP- 1no. 3 core flying lead of 1 meter length / Above 2HP - 1no. 6 core flying lead of 1 meter length
Direction of rotation	Bi-directional
Grease type	Lithium complex grease
Greasing arrangement	Greased for life, sealed bearings
Cooling	IC411 (TEFC)
Paint	RAL 9007(Shade: Grey aluminium)

\*Additional cost for terminal box

71-132 Frame  
160-200 Frame  
225-250 Frame

Rs. 500/-  
Rs. 1000/-  
Rs. 1500/-

## Smoke venting energy efficient Totally Enclosed Fan Cooled (TEFC) squirrel cage motors (IE3)

Enclosure conforming to protection IP55 as per IS/IEC 60034-5. Horizontal foot mounted induction motors, continuously rated, suitable for operation on 415V+/-10%, 50Hz+/-5%, A.C. supply with class 'H' insulation for 50 °C ambient temperature continuous, and 300 °C for up to 2 hours. Altitude less than 1000 meters above sea level.

Reference standard: IEC:60034-30-1:2014, IEC:60034-1:2010 & BS EN12101-3:2002

### TWO POLE 3000 RPM

kW	H.P	Frame size	Price (Rs)
0.37	0.50	S3BAX71MC2	27000
0.55	0.75	S3BAX71MB2	30300
0.75	1.00	S3BAX80MC2	31900
1.10	1.50	S3BAX80MD2	39600
1.50	2.00	S3BAX90SB2	40700
2.20	3.00	S3BAX90SLA2	51200
3.70	5.00	S3BAX100LKB2	78100
5.50	7.50	S3BAX132SMA2	102900
7.50	10.00	S3BAX132SMB2	111700
9.30	12.50	S3BAX160MLJ2	183700
11.00	15.00	S3BAX160MLA2	194200
15.00	20.00	S3BAX160MLB2	223900
18.50	25.00	S3BAX160MLC2	280000
22.00	30.00	S3BAX180MLA2	302000
30.00	40.00	S3BAX200MLA2	445500
37.00	50.00	S3BAX200MLB2	545100
45.00	60.00	S3BAX225SMA2	700700
55.00	75.00	S3BAX250SMA2	946600

### FOUR POLE 1500 RPM

kW	H.P	Frame size	Price (Rs)
0.37	0.50	S3BAX71MLA4	28100
0.55	0.75	S3BAX80MC4	33000
0.75	1.00	S3BAX80MLA4	33600
1.10	1.50	S3BAX90SB4	39600
1.50	2.00	S3BAX90SLA4	45100
2.20	3.00	S3BAX100LB4	54500
3.70	5.00	S3BAX112MLA4	73200
5.50	7.50	S3BAX132SMA4	96300
7.50	10.00	S3BAX132MLA4	111700
9.30	12.50	S3BAX160MLJ4	195800
11.00	15.00	S3BAX160MLA4	198000
15.00	20.00	S3BAX160MLB4	233200
18.50	25.00	S3BAX180MLA4	304200
22.00	30.00	S3BAX180MLB4	317400
30.00	40.00	S3BAX200MLA4	428500
37.00	50.00	S3BAX225SMA4	555500
45.00	60.00	S3BAX225SMB4	656700
55.00	75.00	S3BAX250SMA4	883300

## Smoke venting energy efficient Totally Enclosed Fan Cooled (TEFC) squirrel cage motors (IE3)

Enclosure conforming to protection IP55 as per IS/IEC 60034-5. Horizontal foot mounted induction motors, continuously rated, suitable for operation on 415V+/-10%, 50Hz+/-5%, A.C. supply with class 'H' insulation for 50 °C ambient temperature continuous, and 300 °C for up to 2 hours. Altitude less than 1000 meters above sea level.

Reference standard: IEC:60034-30-1:2014, IEC:60034-1:2010 & BS EN12101-3:2002

SIX POLE			1000 RPM
kW	H.P	Frame size	Price (Rs)
0.37	0.50	S3BAX80MC6	33600
0.55	0.75	S3BAX80MLA6	34700
0.75	1.00	S3BAX90SLA6	40200
1.10	1.50	S3BAX90LB6	52800
1.50	2.00	S3BAX100LKA6	61100
2.20	3.00	S3BAX112MLA6	67100
3.70	5.00	S3BAX132SMB6	104500
5.50	7.50	S3BAX132MLA6	119900
7.50	10.00	S3BAX160MLA6	183700
9.30	12.50	S3BAX160MLJ6	233800
11.00	15.00	S3BAX160MLB6	245900
15.00	20.00	S3BAX180MLA6	292100
18.50	25.00	S3BAX200MLA6	405900
22.00	30.00	S3BAX200MLB6	420800
30.00	40.00	S3BAX225SMA6	633600
37.00	50.00	S3BAX250SMA6	891000

Type	Three phase squirrel cage induction motor
Enclosure	Totally enclosed fan cooled
Voltage +/- variation	415V+/- 10%
Frequency +/- variation	50Hz +/- 5%
Combined +/- variation	10% (Absolute sum)
Mounting reference	As per IEC 60072-1
Altitude	Upto 1000 M
Relative humidity	Upto 100%
Degree of protection	IP55 as per IEC 60034-5
Class of insulation	Class 'H'
Ambient temp./ Temp. rise	50 Deg C/ 70 Deg C
Duty	S1 / Continuous
Terminal box	Optional*
Connection / No. of leads	Upto 2HP- 1no. 3 core flying lead of 1 meter length / Above 2HP - 1no. 6 core flying lead of 1 meter length
Direction of rotation	Bi-directional
Grease type	Lithium complex grease
Greasing arrangement	Greased for life, sealed bearings
Cooling	IC411 (TEFC)
Paint	RAL 9007(Shade: Grey aluminium)

\*Additional cost for terminal box

71 - 132 Frame  
160 - 200 Frame  
225 - 250 Frame

Rs. 500/-  
Rs. 1000/-  
Rs. 1500/-

**Energy efficient Totally Enclosed Fan Cooled (TEFC) Crane Duty VFD suitable squirrel cage induction motors (IE2 efficiency)\***

(Enclosure confirming to protection IP55) Horizontal Foot Mounted Induction Motors, suitable for intermittent duty(S4) for operation on 415V+/-10%, 50Hz+/-5%, A.C. supply with class 'F' insulation for 50 Deg C ambient temperature and altitude less than 1000M above MSL and confirming to IEC:60034-1 & IS 12615:2018. Motors suitable to operate on VFD supply.

**FOUR POLE**

**1500 RPM**

S1 duty KW		S4 duty KW(40% CDF, 150 Start stop per hour)		Frame size	Price (Rs)
kW	H.P	kW	H.P		
0.37	0.50	0.37	0.50	KM2BAX71MB4	20000
0.40	0.55	0.55	0.75	KM2BAX71MC4	21200
0.55	0.75	0.75	1.00	KM2BAX80MA4	24000
0.75	1.00	1.10	1.50	KM2BAX80MB4	26700
1.10	1.50	1.50	2.00	KM2BAX90SA4	32100
1.50	2.00	2.20	3.00	KM2BAX90LA4	35900
2.20	3.00	3.70	5.00	KM2BAX100LA4	42800
3.70	5.00	5.50	7.50	KM2BAX112MLA4	64700
5.50	7.50	7.50	10.00	KM2BAX132SA4	78700
7.50	10.00	9.30	12.50	KM2BAX132MA4	92600
9.30	12.50	11.00	15.00	KM2BAX160MLJ4	141900
11.00	15.00	15.00	20.00	KM2BAX160MLA4	150200
15.00	20.00	18.50	25.00	KM2BAX160MLB4	177900
18.50	25.00	22.00	30.00	KM2BAX180MLA4	215600
22.00	30.00	26.00	34.70	KM2BAX180MLB4	254100
30.00	40.00	36.00	48.00	KM2BAX200MLA4	346200
37.00	50.00	43.00	57.30	KM2BAX225SMA4	391600
45.00	60.00	53.00	70.70	KM2BAX225SMB4	470700
55.00	75.00	64.00	85.30	KM2BAX350SMA4	646800

**SIX POLE**

**1000 RPM**

S1 duty KW		S4 duty KW(40% CDF, 150 Start stop per hour)		Frame size	Price (Rs)
kW	H.P	kW	H.P		
0.25	0.34	0.37	0.50	KM2BAX71MC6	20700
0.37	0.50	0.55	0.75	KM2BAX80MA6	23700
0.55	0.75	0.75	1.00	KM2BAX80MB6	26700
0.75	1.00	1.10	1.50	KM2BAX90SA6	31400
1.10	1.50	1.50	2.00	KM2BAX90LA6	36900
1.50	2.00	2.20	3.00	KM2BAX100LA6	46300
2.20	3.00	3.70	5.00	KM2BAX112MLA6	61200
3.70	5.00	5.50	7.50	KM2BAX132SB6	83200
5.50	7.50	7.50	10.00	KM2BAX132MB6	95300
7.50	10.00	9.30	12.50	KM2BAX160MLA6	161600
9.30	12.50	11.00	15.00	KM2BAX160MLJ6	177900
11.00	15.00	13.50	18.00	KM2BAX160MLB6	199700
15.00	20.00	18.50	25.00	KM2BAX180MLA6	249500
18.50	25.00	22.00	30.00	KM2BAX200MLA6	293800
22.00	30.00	26.00	34.70	KM2BAX200MLB6	354900
30.00	40.00	39.00	52.00	KM2BAX225SMA6	470700
37.00	50.00	46.00	61.30	KM2BAX250SMA6	629500

\* Efficiency and temperature rise at equivalent S1KW are at sinusoidal supply . Speed range 10-100%

## Energy efficient Totally Enclosed Fan Cooled (TEFC) Crane Duty VFD suitable squirrel cage induction motors (IE2 efficiency)\*

(Enclosure confirming to protection IP55) Horizontal Foot Mounted Induction Motors, suitable for intermittent duty(S4) for operation on 415V+/-10%, 50Hz+/-5%, A.C. supply with class 'F' insulation for 50 Deg C ambient temperature and altitude less than 1000M above MSL and confirming to IEC:60034-1 & IS 12615:2018. Motors suitable to operate on VFD supply.

EIGHT POLE

750 RPM

S1 duty KW		S4 duty KW(40% CDF, 150 Start stop per hour)		Frame size	Price (Rs)
kW	H.P	kW	H.P		
0.12	0.16	0.12	0.16	KM2BAX71MB8	21600
0.18	0.25	0.18	0.25	KM2BAX80MA8	25000
0.25	0.34	0.25	0.34	KM2BAX80MB8	26700
0.37	0.50	0.55	0.75	KM2BAX90SA8	34800
0.55	0.75	0.75	1.00	KM2BAX90LA8	36500
0.75	1.00	1.10	1.50	KM2BAX100LA8	42400
1.10	1.50	1.50	2.00	KM2BAX100LB8	50500
1.50	2.00	2.20	3.00	KM2BAX112MA8	59300
2.20	3.00	3.00	4.00	KM2BAX132SA8	90600
3.70	5.00	6.00	8.00	KM2BAX160MLA8	134900
5.50	7.50	7.50	10.00	KM2BAX160MLB8	158800
7.50	10.00	9.30	12.50	KM2BAX160MLC8	196000
9.30	12.50	10.60	14.10	KM2BAX180MLA8	243100
11.00	15.00	12.50	16.70	KM2BAX180MLB8	275900
15.00	20.00	17.00	22.70	KM2BAX200MLA8	353300
18.50	25.00	20.50	27.30	KM2BAX225SMA8	439300
22.00	30.00	24.50	32.70	KM2BAX225SMB8	532400
30.00	40.00	34.00	45.30	KM2BAX250SMA8	635300

\* Efficiency and temperature rise at equivalent S1KW are at sinusoidal supply . Speed range 10-100%



**Energy efficient Totally Enclosed Fan Cooled (TEFC) Crane duty DOL operated squirrel cage induction motors (IE2 efficiency at S1 duty)**

(Enclosure confirming to protection IP55) Horizontal Foot Mounted Induction Motors, suitable for intermittent duty(S4) for operation on 415V+/-10%, 50Hz+/-5%, A.C. supply with class 'F' insulation for 50 Deg C ambient temperature and altitude less than 1000M above MSL and confirming to IEC:60034-1 & IS 12615:2018. Motors suitable to operate on DOL supply.

FOUR POLE				1500 RPM	
S1 duty KW		S4 duty KW(40% CDF, 150 Start stop per hour)		Frame size	Price (Rs)
kW	H.P	kW	H.P		
0.37	0.50	0.37	0.50	KM2BAX71MB4	19500
0.40	0.55	0.55	0.75	KM2BAX71MC4	20600
0.55	0.75	0.75	1.00	KM2BAX80MA4	23300
0.75	1.00	1.10	1.50	KM2BAX80MB4	26000
1.10	1.50	1.50	2.00	KM2BAX90SA4	31200
1.50	2.00	2.20	3.00	KM2BAX90LA4	35900
2.20	3.00	3.70	5.00	KM2BAX100LB4	48000
3.70	5.00	5.50	7.50	KM2BAX112MLA4	64700
5.50	7.50	7.50	10.00	KM2BAX132MA4	90200
7.50	10.00	9.30	12.50	KM2BAX132SME4	96500
11.00	15.00	12.50	16.70	KM2BAX160MLA4	153700
15.00	20.00	16.50	22.00	KM2BAX160MLB4	169800
16.00	21.30	18.50	25.00	KM2BAX160MLC4	177900
18.50	25.00	22.00	30.00	KM2BAX180MLA4	226400
30.00	40.00	30.00	40.00	KM2BAX200MLA4	335000

SIX POLE				1000 RPM	
S1 duty KW		S4 duty KW(40% CDF, 150 Start stop per hour)		Frame size	Price (Rs)
kW	H.P	kW	H.P		
0.12	0.16	0.18	0.25	KM2BAX71MA6	16300
0.18	0.25	0.25	0.34	KM2BAX71MB6	18000
0.25	0.34	0.37	0.50	KM2BAX71MC6	20100
0.37	0.50	0.55	0.75	KM2BAX80MC6	22300
0.55	0.75	0.75	1.00	KM2BAX80MB6	26000
0.75	1.00	1.10	1.50	KM2BAX90LA6	35900
1.10	1.50	1.50	2.00	KM2BAX90LB6	41800
1.50	2.00	2.00	3.00	KM2BAX100LA6	45100
2.20	3.00	3.70	5.00	KM2BAX112MLA6	59500
3.70	5.00	5.50	7.50	KM2BAX132SB6	80900
5.50	7.50	7.50	10.00	KM2BAX132MLA6	122200
7.50	10.00	9.30	12.50	KM2BAX160MLA6	157300
9.30	12.50	11.50	15.30	KM2BAX160MLJ6	189400
11.00	15.00	13.50	18.00	KM2BAX160MLB6	206100
15.00	20.00	18.50	25.00	KM2BAX180MLA6	242600
22.00	30.00	23.50	31.30	KM2BAX200MLB6	345500

## Energy efficient Totally Enclosed Fan Cooled (TEFC) Crane duty DOL operated squirrel cage induction motors (IE2 efficiency at S1 duty)

(Enclosure confirming to protection IP55) Horizontal Foot Mounted Induction Motors, suitable for intermittent duty(S4) for operation on 415V+/-10%, 50Hz+/-5%, A.C. supply with class 'F' insulation for 50 Deg C ambient temperature and altitude less than 1000M above MSL and confirming to IEC:60034-1 & IS 12615:2018. Motors suitable to operate on DOL supply.

EIGHT POLE

750 RPM

S1 duty KW		S4 duty KW(40% CDF, 150 Start stop per hour)		Frame size	Price (Rs)
kW	H.P	kW	H.P		
0.09	0.12	0.09	0.12	KM2BAX71MA8	19800
0.12	0.16	0.12	0.16	KM2BAX71MB8	20900
0.18	0.25	0.18	0.25	KM2BAX80MA8	24200
0.25	0.34	0.25	0.34	KM2BAX80MB8	26000
0.37	0.50	0.37	0.50	KM2BAX90SA8	33600
0.37	0.50	0.55	0.75	KM2BAX90SB8	34100
0.55	0.75	0.75	1.00	KM2BAX90LA8	35900
0.75	1.00	1.10	1.50	KM2BAX100LB8	49100
1.10	1.50	1.50	2.00	KM2BAX100LKA8	49500
1.50	2.00	2.20	3.00	KM2BAX112MLA8	62700
2.20	3.00	3.70	5.00	KM2BAX132SMA8	104000
3.70	5.00	6.00	8.00	KM2BAX160MLA8	131300
5.50	7.50	7.50	10.00	KM2BAX160MLB8	166400
7.50	10.00	9.30	12.50	KM2BAX160MLC8	190600
9.30	12.50	12.00	16.00	KM2BAX180MLA8	243100
15.00	20.00	15.00	20.00	KM2BAX200MLA8	337300

**Price add-ons for specific requirements for Safe Area Motors**  
Frame 71-355 of TEFC

Sl no	Description	Add-ons
1.0	<b>Shaft</b>	
1.1	Non standard single / double shaft extension, diameter of shaft being same or less as standard. kindly refer nearest sales office for following: a) Dia more than standard b) Length more than twice of the standard	7.5 % of LP
1.2	Shaft material - EN24	10% of LP
1.3	Brake arrangement with EN24 shaft	20% of LP
1.4	Encoder mounting arrangement	7.5% of LP
1.5	Vibration sensor mounting arrangement for 280 frame and above	7.5% of LP
1.6	Shaft material - SS316	20% of LP
1.7	SPM nipples	3% subject to max of Rs. 7500/- Net
2.0	<b>Mounting</b> Standard flange or face mounting ( B14, B5, V1, V18 & V19) or foot cum flange / face mounting( B35, B34, V14, V36) (Face mounting / C-type flange available only up to 132-frame)	
2.1	Upto frame 160	3% of LP
2.2	Frame 180 and above	5% of LP
3.0	<b>Non standard paint shade as per IS 5</b>	
3.1	<b>Epoxy</b>	
3.11	Epoxy 631 / 632	3% of LP
3.12	Paint shade other than munshell blue and 631 / 632 shade	5% of LP
3.2	<b>Non-Epoxy</b>	
3.21	Paint shade other than munshell blue	5% subject to max of RS 9000/- Net
3.3	<b>Paint thickness</b> Rust coat primer + PU paint is 70 microns For additional thickness upto 150 micros For thickness > 150 upto 215microns	7% of LP 10% of LP
4.0	<b>Epoxy gel coat on winding overhang</b>	3% of LP
5.0	<b>Insulation class 'H'</b>	12.5% on LP
6.0	<b>Vaccum pressure impregnation</b>	5% on LP
7.0	<b>Stainless steel hardware</b> Frame 71-200 Frame 225-250 Frame 280-355 SS name plate	Rs 1000/-Net Rs 2000/-Net Rs 4000/-Net Rs 300/-Net
8.0	<b>Non standard nominal voltage</b> 220-690V (DOL) or 220-480V (VFD) with frequency 50 HZ and 60 HZ Kindly refer nearest sales office for following: 500-690 (VFD) *For 60Hz motors(71-250 frame), please refer nearest sales office	5% of LP
9.0	<b>Multi speed motors</b> Dual speed motor upto 8 pole (to be taken on higher frame) Tapped winding is indicated by speed ratio 1:2( e.g 4/8, 2/4) Two winding e.g. 4/6, 6/8	12.5% on LP for tapped wdg 20% on LP for two wdg.
10.0	<b>Crane duty motor (SCR)</b>	10% on LP ( For 280 frame and above)
11.0	<b>Flying leads (Up to 1.5meter &amp; 6 leads), W/O terminal box.</b>	7.5% on LP
12.0	<b>Enclosure / Types</b>	
12.1	Lint free fan cover	5% on LP
12.2	Non sparking type "Ex'ec"motors	10% on LP
12.3	IP56	5% on LP
12.4	IP65	7.5% on LP
12.5	IP66 (Certification charges extra for 280 frame and above)	10% on LP
13.0	<b>Space heaters</b>	
13.1	Frame 71-132	Rs 1200/-Net
13.2	Frame 160-250	Rs 2000/-Net
13.3	frame 280-355	Rs 3500/-Net
14.0	<b>PTC thermistors (without relays)</b>	
14.1	3 no's	Rs 2500/-Net
14.2	6 no's	Rs 4800/-Net

## Price add-ons for specific requirements for Safe Area Motors Frame 71-355 of TEFC

Sl no	Description	Add-ons
15.0	<b>RTD (Frame 160-355)</b>	
15.1	3 no's simplex	Rs 6500/-Net
15.2	6 no's simplex	Rs 10500/-Net
15.3	3 no's duplex	Rs 8000/-Net
15.4	6 no's duplex	Rs 14000/-Net
16.0	<b>BTD (Frame 225-355)</b>	
16.1	2 no's simplex	Rs 8500/-Net
16.2	2 no's duplex	Rs 10500/-Net
17.0	<b>Cast iron fan</b>	
17.1	Frame 100-132	Rs 800/-Net
17.2	Frame 160-225	Rs 1200/-Net
17.3	Frame 250-280	Rs 2250/-Net
17.4	Frame 315-355	Rs 5000/-Net
18.0	<b>Double compression cable gland</b>	
18.1	Frame 71-132	Rs 800/-Net
18.2	Frame 160-225	Rs 2000/-Net
18.3	Frame 250-355	Rs 3500/-Net
19.0	<b>Forced cooling arrangement</b>	
19.1	Frame 132 -180	Rs 15000/-Net
19.2	Frame 200- 225	Rs 20000/-Net
19.3	Frame 250-280	Rs 25000/-Net
19.4	Frame 315	Rs 31000/-Net
19.5	Frame 355	Rs 35000/-Net
20.0	<b>Roller bearing</b>	
20.1	Frame 100- 132	Rs 1500/-Net
20.2	Frame 160- 200	Rs 3000/-Net
20.3	Frame 225- 250	Rs 4500/-Net
20.4	Frame 280-315	Rs 8000/-Net
20.5	Frame 355	Rs 10500/-Net
21.0	<b>Insulated/Hybrid bearing at N-end</b>	
21.1	Frame 160- 200 (Hybrid)	Rs 21000/-Net
21.2	Frame 225-250 (Hybrid)	Rs 27000/-Net
21.3	Frame 280-315 (Insulated)	Rs 31000/-Net
21.4	Frame 355(Insulated)	Rs 38000/-Net
22.0	<b>Regreasing facility (Frame 100-250)</b>	5% of LP
23.0	<b>Cast Iron terminal box (Frame 71-355)</b>	5% of LP
24.0	<b>One size higher terminal box (Frame 160-355)</b>	5% of LP
25.0	<b>NTPC type terminal box (Frame 100-355)</b>	5% of LP
26.0	<b>Testing</b>	
26.1	Routine test per motor	
	Frame 71-132	Rs 2000/-Net
	Frame 160-225	Rs 3500/-Net
	Frame 250-355	Rs 6000/-Net
	Frame 400-450	Rs 10000/-Net
26.2	Type test per rating on one motor	
	Frame 71-132	Rs 6000/-Net
	Frame 160-225	Rs 8000/-Net
	Frame 250-280	Rs 10000/-Net
	Frame 315-355	Rs 17000/-Net
	Frame 400-450	Rs 30000/-Net
26.3	Combined type testing with VFD (Safe area and in ABB premises) per rating on one motor #	
	Frame 160-225	Rs 25000/-Net
	Frame 250-280	Rs 50000/-Net
	Frame 315-355	Rs 90000/-Net
	Frame 400-450	Rs 125000/-Net
26.4	Combined type testing with VFD (Ex 'ec' motors in ABB premises) per rating on one motor, with ERTL/KLPL and PESO certification ##	
	Frame 71-250	Rs 220,000/-Net
	Frame 280-355	Rs 240,000/-Net

## Price add-ons for specific requirements for hazardous Area M2JAP Motors

Frame 80-250 of TEFC, Ex db IIB T4 Gb, Insulation class F, temperature rise class B, Amb. 45 deg

Sl no	Description	Add-ons
1.0	<b>Shaft</b>	
1.1	Non standard single / double shaft extension, diameter of shaft being same or less as standard. kindly refer nearest sales office for following: a) Dia more than standard b) Length more than twice of the standard	7.5 % of LP  Not applicable for FLP Refer nearest sales office
1.2	Shaft material - EN24	10% of LP
1.3	Brake arrangement with EN24 shaft	Not applicable for FLP
1.4	Encoder mounting arrangement	Not applicable for FLP
1.5	Vibration sensor mounting arrangement for 280 frame and above	Not applicable for FLP
1.6	Shaft material - SS316	20% of LP
1.7	SPM nipples	3% subject to max of Rs. 7500/- Net
2.0	<b>Mounting</b> Standard flange or face mounting ( B14, B5, V1, V18 & V19) or foot cum flange / face mounting( B35, B34, V14, V36) (Face mounting / C-type flange available only up to 132-frame)	
2.1	Upto frame 160	3% of LP
2.2	Frame 180 and above	5% of LP
3.0	<b>Non standard paint shade as per IS 5</b>	
3.1	<b>Epoxy</b>	
3.11	Epoxy 631 / 632	3% of LP
3.12	Paint shade other than munshell blue and 631 / 632 shade	5% of LP
3.2	<b>Non-Epoxy</b>	
3.21	Paint shade other than munshell blue	5% subject to max of RS 6500/- Net
3.3	<b>Paint thickness</b> Rust coat primer + PU paint is 70 microns For additional thickness upto 150 micros For thickness > 150 upto 215microns	7% of LP 10% of LP
3.4	Painting as per C4 Scheme	10% of LP
3.5	Painting as per C5 Scheme	Refer nearest sales office
4.0	<b>Epoxy gel coat on winding overhang</b>	3% of LP
5.0	<b>Insulation class 'H'</b>	12.5% on LP
6.0	<b>Vaccum pressure impregnation</b>	5% on LP
7.0	<b>Stainless steel hardware</b> Frame 80-200 Frame 225-250 SS name plate	Rs 1000/-Net Rs 2000/-Net By default
8.0	<b>Non standard nominal voltage</b> 190-690V (DOL) or 190-480V (VFD) with frequency 50 HZ and 60 HZ Kindly refer nearest sales office for following: *500-690 (VFD) *For 60Hz motors(71-250 frame), please refer nearest sales office	5% of LP
9.0	<b>Multi speed motors</b> Dual speed motor upto 8 pole (to be taken on higher frame) Tapped winding is indicated by speed ratio 1:2( e.g 4/8, 2/4) Two winding e.g. 4/6, 6/8	Not applicable for FLP Not applicable for FLP
10.0	<b>Crane duty motor (SCR)</b>	Not applicable for FLP
11.0	<b>Flying leads (Up to 1.5meter &amp; 6 leads), W/O terminal box.</b>	Not applicable for FLP
12.0	<b>Enclosure / Types</b>	
12.1	Roof canopy for vertically mounted motors	5% on LP
12.2	For Gas Goup IIC motors	Refer nearest sales office
12.3	IP56 (Name plate marking will be IP 66)	5% on LP
12.4	IP65 (Name plate marking will be IP 66)	7.5% on LP
12.5	IP66 (Certification charges extra for 280 frame and above)	10% on LP
13.0	<b>Space heaters * (In main terminal box)</b>	
13.1	Frame 80-132	Rs 10000/-Net
13.2	Frame 160-250	Rs 12000/-Net
14.0	<b>PTC thermistors (without relays)* (In main terminal box)</b>	
14.1	3 no's	Rs 7000/-Net
14.2	6 no's	Rs 10500/-Net

## Price add-ons for specific requirements for hazardous Area M2JAP Motors

Frame 80-250 of TEFC, Ex db IIB T4 Gb, Insulation class F, temperature rise class B, Amb. 45 deg

Sl no	Description	Add-ons
15.0	<b>RTD</b>	
15.1	Pt100 2-wire in stator winding, 1 per phase (Frame 80-250)(In main terminal box)	Rs 9500/-Net
15.2	Pt100 2-wire in stator winding, 2 per phase (Frame 160-250)(In separate terminal box)	Rs 15500/-Net
15.3	Pt100 3-wire in stator winding, 1 per phase (Frame 160-250)(In separate terminal box)	Rs 13500/-Net
15.4	Pt100 3-wire in stator winding, 2 per phase (Frame 160-250)(In separate terminal box)	Rs 17500/-Net
16.0	<b>BTD* (In main terminal box)</b>	
16.1	Pt100 2-wire in bearings: 132-250	Refer nearest sales office
16.2	Pt100 3-wire in bearings: 132-250	Refer nearest sales office
17.0	<b>Cast iron fan</b>	
17.1	Frame 80-132	Rs 800/-Net
17.2	Frame 160-225	Rs 1200/-Net
17.3	Frame 250	Rs 2250/-Net
18.0	<b>Double compression cable gland</b>	
18.1	Frame 80-90 (M25)	Rs 3000/-Net per piece
18.2	Frame 100-132 (M32)	Rs 4000/-Net per piece
18.3	Frame 160-180 (M40)	Rs 5500/-Net per piece
18.4	Frame 200-250 (M50)	Rs 9000/-Net per piece
19.0	<b>Forced cooling arrangement</b>	
19.1	Frame 132 -180	Not applicable for FLP
19.2	Frame 200- 225	Not applicable for FLP
19.3	Frame 250	Not applicable for FLP
20.0	<b>Roller bearing</b>	
20.1	Frame 80- 132	Cannot be offered
20.2	Frame 160- 200	Rs 5000/-Net
20.3	Frame 225- 250	Rs 7000/-Net
21.0	<b>Insulated/Hybrid bearing at N-end</b>	
21.1	Frame 160- 200 (Hybrid)	Refer nearest sales office
21.2	Frame 225-250 (Hybrid)	Refer nearest sales office
22.0	<b>Regreasing facility (Frame 132-250)</b>	5% of LP
23.0	<b>Cast Iron terminal box (Frame 80-250)</b>	By default
24.0	<b>One size higher terminal box</b>	Cannot be offered
25.0	<b>Side terminal box (160-180) RHS or LHS</b>	Refer nearest sales office
26.0	<b>Separate terminal box for accessories (132-250)</b>	Rs. 5500/-Net
27.0	<b>NTPC type terminal box</b>	Cannot be offered
28.0	<b>Testing</b>	
28.1	Routine test per motor	
	Frame 80-132	Rs 3000/-Net per motor
	Frame 160-200	Rs 4500/-Net per motor
	Frame 225-250	Rs 7000/-Net per motor
28.2	Type test per rating on one motor	
	Frame 80-132	Rs 6000/-Net per motor
	Frame 160-200	Rs 8000/-Net per motor
	Frame 2/2-250	Rs 12000/-Net per motor
28.3	Combined type testing with VFD (in ABB premises) per rating on one motor, with ERTL/KLPL and PESO certification##	
	Frame 80-250	Rs 220,000/- per motor

### Terms & Conditions

**1. Taxes & Duties:** The list price is exclusive of GST and Duties.

**2. Delivery:** Prices are Ex works/Ex- Godown basis

**3. Conditions of Sale:** The price list is subject to our Standard 'General Terms and Conditions' of Tender and sale and the prices are subject to revision without prior notice.

#### 4. General:

- a) Due to improvement being made from time to time, Frame sizes indicated above are provisional and subject to change without notice.  
b) For more details, please contact us.

\* For combination of two or more accessories, please refer nearest sales office.

#### # For combined testing below will be applicable :

1. VFD, Power analyzer and trained operator to be arranged by customer at ABB respective factory.
2. Only ABB declaration of conformity will be issued.

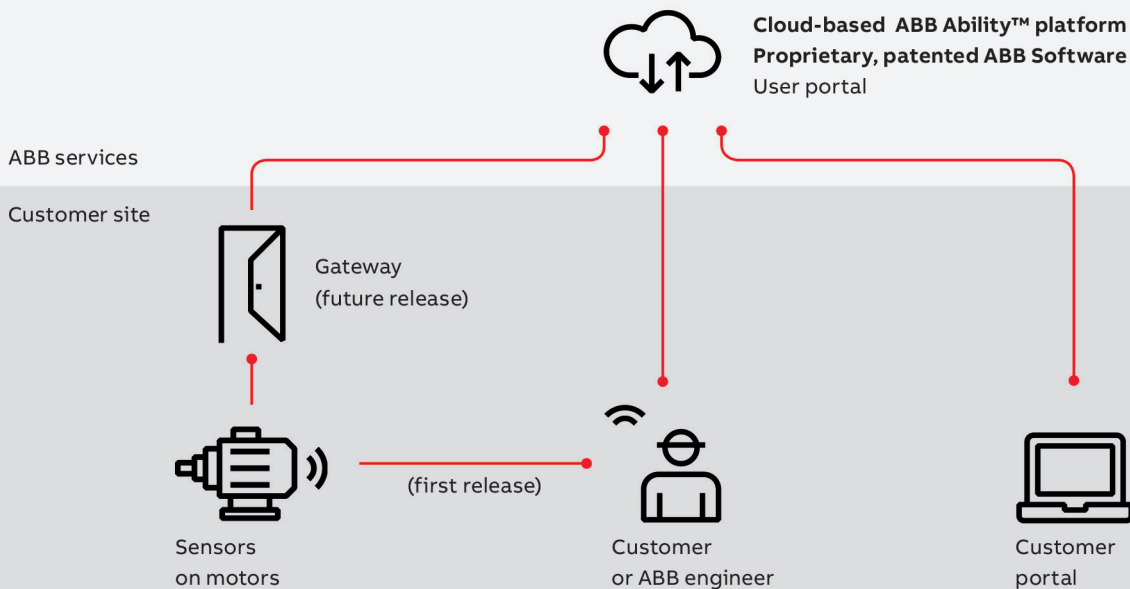
#### ## For combined testing of non sparking and flame proof M2JAP Motors below will be applicable :

1. VFD, Power analyzer and trained operator to be arranged by customer at ABB respective factory.
2. Motor with VFD will be tested in presence of approved test house authority.
3. KLPL/ERTL and PESO certification will be implied.

# ABB Ability™ Smart Sensor

## Condition monitoring solution for low voltage motors

ABB Ability™ Smart Sensor is a condition monitoring solution that makes predictive maintenance possible for almost all low voltage motors. By monitoring and analyzing data on motor operating parameters, it enables motor users to optimize their maintenance. The solution helps to reduce downtime by as much as 70 percent, extend motor lifetimes by up to 30 percent and reduce energy consumption by up to 10%.



ABB's condition monitoring solution for LV motors. The ABB Ability™ Smart Sensor transmits data via a smartphone (first release) or gateway to a secure cloud service. Algorithms in the cloud analyze the data and convert it into meaningful information, which is then sent to the user's smartphone and customer portal.

For more information please visit:  
[www.abb.com/smartsensor](http://www.abb.com/smartsensor)  
 or contact [contact.center@in.abb.com](mailto:contact.center@in.abb.com)

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