

Powered by Trust®

 **Bharat Bijlee**

A MOTOR FOR EVERY NEED

0.12kW to 1250kW



ENERGY SAVING • RELIABILITY • WIDE RANGE

January 2022

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

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

Motor Type	Frame	Power (kW)	Polarity		Standard Technical Specifications	Optional Features		Applications
IE2 Motors	56 to 355	0.12 to 355	2, 4, 6, 8		<ul style="list-style-type: none">Ambient: 50° CAmbient for DCCA: 40° CInverter Grade Winding: For IE3 and DCCADuty: S1RTD & BTD: For DCCA motorsMounting: B3, B5, B35, V1, B14 upto 132 frame	<ul style="list-style-type: none">Non Standard Voltage: upto 690VHigher Polarity on requestInsulation: Class HSpace Heater: 90 Frame onwardsRTD & BTD: 250 Frame onwardsPTC Thermistor: 80 to 355LShaft Material: EN24*Enclosure: IP56 / 65 / 66Forced Cooling: 132 to 450 FrameRoller Bearing: 160 Frame onwards	<ul style="list-style-type: none">High Temperature Grease: Suitable up to 200° CSS HardwareNon standard shaft diameter/extension*Non Standard PaintProvision for Encoder MountingLow Vibration as per IS or IECInsulated Bearing: 132 Frame onwardsSPM Nipples Provision: Frame 250 onwards	Pump, Fan, Compressor, Packing Machinery, Coiler/De-coiler, Agro Equipment, Food Processing Equipment, Paper Machinery, Agitator, Dairy Equipment, Machine Tool, Air Conditioning, Material Handling, Plastic Machinery, Textile Machinery, Cooling Tower, Crusher, Material Handling
IE3 Motors	56 to 355	0.12 to 355	2, 4, 6, 8					
Large LT Motors (DCCA)	355 to 450	250 to 1250	2, 4, 6, 8					
IE4 Motors	112 to 225	1.5 to 45	4		<ul style="list-style-type: none">Ambient: 50° CInverter Duty WindingDuty: S1VPI: With Class H solvent less ResinMounting: B3, B5, B35, V1	<ul style="list-style-type: none">Insulation: Class HSpace Heater: 90 frame onwardsPTC Thermistor: 80 to 225 FrameShaft Material: EN24*Enclosure: IP56 / 65 / 66Roller Bearing: 160 Frame onwards	<ul style="list-style-type: none">Non standard shaft diameter/extension*Non Standard PaintProvision for Encoder MountingLow Vibration as per IS or IEC	Fans, HVAC, Pumps, Textiles, Hydraulic Press
Standard Flame Proof Ex'd' Motors	80 to 355	0.37 to 315	2, 4, 6, 8		<ul style="list-style-type: none">Ambient: 45° CInverter Grade Winding: For IE3 MotorsDuty: S1Mounting: B3, B5, B35, V1	<ul style="list-style-type: none">Non Standard Voltage: 220 to 690VIntermittent Duty S3, S4: In 4, 6, 8 Pole*Insulation: Class HPTC Thermistor: 80 to 315 LSpace Heater: 90 Frame onwardsRoller Bearing: 160 Frame onwardsShaft Material: EN24*Enclosure: IP56 / 65 / 66	<ul style="list-style-type: none">Insulated Bearing: 132 Frame onwardsNon standard shaft diameter/extension*Motors for inverter duty application ; offered with<ul style="list-style-type: none">Combined testing of motor and VFD orMotors fitted with PTC ThermistorTest facility available for combined Testing with VFDNon Standard PaintLow Vibration as per IS or IEC	Pump, Fan, Compressor, Material Handling, Agitator, LPG Bottling Plant, Pharma Machinery, Chemical Plant Machinery, Machinery for mines
IE2 Flame Proof Ex'd' Motors	80 to 355	0.37 to 315	2, 4, 6, 8					
IE3 Flame Proof Ex'd' Motors	80 to 355	0.37 to 315	2, 4, 6, 8					
IE2 Increased Safety Ex ec Motors	63 to 355	0.12 to 355	2, 4, 6, 8		<ul style="list-style-type: none">Ambient: 50° CDuty: S1Mounting: B3, B5, B35, V1 (B14 upto 132 Frame)	<ul style="list-style-type: none">Insulation: Class HShaft Material: EN24*Enclosure: IP56 / 65 / 66Roller Bearing: 160 Frame onwards	<ul style="list-style-type: none">Insulated Bearing: 132 Frame onwardsNon standard shaft diameter/extension*Motors for inverter duty application with combined testing of motor and VFD for temperature class certificationTest facility available for combined testing with VFDNon Standard PaintLow Vibration as per IS or IEC	Pump, Fan, Compressor, Material Handling, Agitator, Pharma Machinery
IE3 Increased Safety Ex ec Motors	63 to 355	0.12 to 355	2, 4, 6, 8					
Crane & Hoist Duty Motors	71 to 355	0.37 to 400	4, 6, 8		<ul style="list-style-type: none">Ambient: 45° CDuty: S4Offered in DOL & Converter Fed SupplyMounting: B3, B5, B35, V1 (B14 upto 132 Frame)	<ul style="list-style-type: none">Duty: S2, S3 and S5Non Standard Voltage: 380 to 460VInsulation: Class HSpace Heater: 90 Frame onwardsBTD: 250 Frame & abovePTC Thermistor: 80 to 355 LRoller Bearing: 160 Frame onwardsShaft Material: EN24*Enclosure: IP56 / 65 / 66	<ul style="list-style-type: none">Motors for Inverter DutyInsulated Bearing: 132 Frame onwardsNon standard shaft diameter/extension*Non Standard PaintLow Vibration as per IS or IEC	Crane, Hoist, Lift, Material Handling, Car Stacker, Door Opening
Brake Motors (With Integral DC Brake)	71 to 132	0.25 to 9.3	2, 4, 6, 8		<ul style="list-style-type: none">Ambient: 50° CDuty: S1Mounting: B3, B5, B35Integral DC Brake	<ul style="list-style-type: none">Duty: S2 and aboveNon Standard Voltage: upto 460VMotors for Inverter DutyManual Release Arrangement: For 90 to 132 Frame	<ul style="list-style-type: none">Non standard shaft diameter/extension*Non Standard Paint	Crane, Hoist, Material Handling, Textile, Pharma to name a few
Brake Motors (With External Mounted Brake)	71 to 200	0.37 to 22	2, 4, 6, 8		<ul style="list-style-type: none">Ambient: 50° CDuty: S1Mounting: B3, B5, B35External Mounted DC Brake/Arrangement	<ul style="list-style-type: none">Duty: S2 and aboveNon Standard Voltage: upto 460VMotors for Inverter DutyManual Release Arrangement	<ul style="list-style-type: none">Double Shaft Extension for brake arrangementNon Standard Paint	Crane, Hoist, Material Handling, Textile, Pharma to name a few
Slip Ring Motors	100 to 160	1.1 to 10	4, 6		<ul style="list-style-type: none">Ambient: 45° CDuty: S3, S4, S5Mounting: B3	<ul style="list-style-type: none">Mounting: B35Non standard shaft diameter & extension*	<ul style="list-style-type: none">Non Standard Paint	Crane, Hoist, Lift, Material Handling
Textile Motors	100 to 160	1.1 to 15	4, 6, 8		<ul style="list-style-type: none">Ambient: 50° CDuty: S1Mounting: B3, B5, B35	<ul style="list-style-type: none">Non Standard Voltage: upto 500VInsulation: Class H	<ul style="list-style-type: none">Motors for Inverter DutyNon Standard PaintLow Vibration as per IS	Ginning, Textile Machinery
Cane Unloader Motors	160 to 225	11 to 30	6		<ul style="list-style-type: none">Ambient: 45° CStart/Stop per Hour: upto 900Duty: S5, 50% CDFThermostatMounting: B3, B5, B35Forced CoolingShaft Material: En24	<ul style="list-style-type: none">Insulation: Class HPTC Thermistor	<ul style="list-style-type: none">Insulated Bearing: 132 Frame onwardsNon Standard Paint	Cane Loading-Unloading Machine

* Subject to confirmation from Bharat Bijlee