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Bharat Bijlee

A MOTOR FOR EVERY NEED

0.12kW to 1250kW



Energy-efficient | Reliable | Wide-range

October 2026

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

LV Motors Product Range

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

Motor Type	Frame	Power (kW)	Polarity	Motor Indicative Image	Standard Features	Optional Features		Applications
IE2 Motors	56 to 355	0.12 to 355	2, 4, 6, 8		• Ambient: 50°C • Ambient for DCCA: 40°C • Inverter Grade Winding: For IE3 and DCCA • Duty: S1 • RTD & BTD: For DCCA motors • Mounting: B3, B5, B35, V1, (B14 upto 132 frame) • Jacking holes: 200 Frame onwards	• Non Standard Voltage: upto 690V • Higher Polarity on request • Insulation: Class H • Space Heater: 90 Frame onwards • RTD & BTD: 200 Frame onwards • PTC Thermistor: 80 to 355L • Shaft Material: En24*	• Enclosure: IP56 / 65 / 66 • Forced Cooling: 132 to 450 Frame • Roller Bearing: 160 Frame onwards • High Temperature Grease: Suitable up to 200°C • SS Hardware • Non standard shaft diameter/extension* • Dowelling provision: 200 Frame onwards	• Provision for Encoder Mounting • Low Vibration as per IS or IEC • Insulated Bearing: 132 Frame onwards • SPM Nipples Provision: Frame 180 onwards • Jacking holes provision: 180 Frame • Non Standard Paint	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
IE3 Motors	56 to 355	0.12 to 355	2, 4, 6, 8					
Large LT Motors (DCCA) -IE2/IE3	355 to 450	250 to 1250	2, 4, 6, 8					
IE4 Motors (LS PMSM SynchroVERT® Series)	112 to 250	1.5 to 55	2, 4, 6		• Ambient: 50°C • DOL & Inverter Duty Winding • Duty: S1 • VPI: With Class H solvent less Resin • Mounting: B3, B5, B35, V1, B14	• Insulation: Class H • Space Heater: 112M frame onwards • PTC Thermistor: 112M to 225 Frame • Shaft Material: En24*	• Enclosure: IP 56 / 65 / 66 • Roller Bearing: 160 Frame onwards • Non standard shaft diameter/extension*	• Non Standard Paint • Provision for Encoder Mounting • Low Vibration as per IS or IEC	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, Data centres
IE4 Induction Series Motors	200 to 315	15 to 200	2, 4, 6, 8		• Ambient: 50°C • Inverter Grade Winding • Duty: S1 • Mounting: B3, B5, B35, V1, (B14 upto 132 frame) • Jacking holes: 200 Frame onwards	• Non Standard Voltage: upto 690V • Higher Polarity on request • Insulation: Class H • Space Heater • RTD & BTD: 200 Frame onwards • PTC Thermistor • Shaft Material: En24*	• Enclosure: IP56 / 65 / 66 • Forced cooling- 132 Frame onwards • Roller Bearing: 160 Frame onwards • High Temperature Grease: Suitable up to 200°C • SS Hardware • Non standard shaft diameter/extension* • Dowelling provision: 200 Frame onwards	• Provision for Encoder Mounting • Low Vibration as per IS or IEC • Insulated Bearing: 132 Frame onwards • SPM Nipples Provision: Frame 200 onwards • Jacking holes provision: 180 Frame • Non Standard Paint	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
IE5 Motors (LS PMSM SynchroVERT® Series)	132 to 225	1.5 to 45	2, 4		• Ambient: 50°C • DOL & Inverter Duty Winding • Duty: S1 • VPI: With Class H solvent less Resin • Mounting: B3, B5, B35, V1, B14	• Insulation: Class H • Space Heater: 112M frame onwards • PTC Thermistor: 112M to 225 Frame • Shaft Material: En24*	• Enclosure: IP 56 / 65 / 66 • Roller Bearing: 160 Frame onwards • Non standard shaft diameter/extension* • Non Standard Paint	• Provision for Encoder Mounting • Low Vibration as per IS or IEC	Pump, Fan, Compressor, Packing Machinery, wire drawing machine, Agro Equipment, Food Processing Equipment, Paper Machinery, Agitator, Dairy Equipment, Machine Tool, Air Conditioning (HVAC), Material Handling, Plastic Machinery, Textile Machinery, Cooling Tower, Crusher, Data Centres
Standard Flame Proof Ex'd' Motors	80 to 280	0.37 to 90	2, 4, 6, 8		• Ambient: 45°C • Duty: S1 • Mounting: B3, B5, B35, V1 • For Hazardous Area Zone 1	• Non Standard Voltage: 220 to 690V • Intermittent Duty S3, S4: In 4, 6, 8 Pole* • Insulation: Class H • PTC Thermistor • Space Heater: 90 Frame onwards • Roller Bearing: 180 Frame onwards • Shaft Material: En24*	• Enclosure: IP56 / 65 / 66 • Insulated Bearing: 132 Frame onwards • Non standard shaft diameter/extension* • Motors for inverter duty application; offered with combined testing of motor and VFD or motors fitted with PTC Thermistor	• Test facility available for combined testing with VFD • Low Vibration as per IS or IEC • Non Standard Paint • Gas Group IIC in 355frame	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					
IE4 Flame Proof Ex'd' Motors	80 to 315	0.37 to 160	2, 4, 6, 8		• Ambient: 45°C • Duty: S1 • Mounting: B3, B5, B35, V1 • For Hazardous Area Zone 1	• Non Standard Voltage: 220 to 690V • Intermittent Duty S3, S4: In 4, 6, 8 Pole* • Insulation: Class H • PTC Thermistor • Space Heater: 90 Frame onwards • Roller Bearing: 180 Frame onwards • Shaft Material: En24*	• Enclosure: IP56 / 65 / 66 • Insulated Bearing: 132 Frame onwards • Non standard shaft diameter/extension* • Motors for inverter duty application; offered with combined testing of motor and VFD or motors fitted with PTC Thermistor	• Test facility available for combined testing with VFD • Low Vibration as per IS or IEC • Non Standard Paint	Pump, Fan, Compressor, Material Handling, Agitator, LPG Bottling Plant, Pharma Machinery, Chemical Plant Machinery, Machinery for mines
IE4 Flame Proof Ex'd' (LS PMSM SynchroVERT® Series)	112 to 180	1.5 to 18.5	4		• Ambient: 45°C • DOL & Inverter Grade Winding - VP: With Class H solvent less Resin • Duty: S1 • Mounting: B3, B5, B35, B14, V1 • For Hazardous Area Zone 1	• ATEX certified • Non Standard Voltage • Insulation: Class H • PTC Thermistor: 112 to 180 • Space Heater: 112 Frame onwards • Roller Bearing: 160 Frame onwards • Shaft Material: En24*	• Enclosure: IP56 / 65 / 66 • Insulated Bearing: 160 Frame onwards • Non standard shaft diameter/extension* application; offered with combined testing of motor and VFD or motors fitted with PTC Thermistor	• Test facility available for combined testing with VFD • Non Standard Paint • Low Vibration as per IS or IEC	Pump, Fan, Compressor, Material Handling, Agitator, LPG Bottling Plant, Pharma Machinery, Chemical Plant Machinery,
IE2 Increased Safety Ex ec Motors	63 to 355	0.12 to 355	2, 4, 6, 8		• Ambient: 50°C • Duty: S1 • Mounting: B3, B5, B35, V1 (B14 upto 132 Frame) • For Hazardous Area Zone 2	• Insulation: Class H • Shaft Material: En24* • Enclosure: IP56 / 65 / 66 • Roller Bearing: 160 Frame onwards • Insulated Bearing: 132 Frame onwards	• Non standard shaft diameter/extension* • Motors for inverter duty application with combined testing of motor and VFD for temperature class certification	• Test facility available • Low Vibration as per IS or IEC • Non Standard Paint	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		• Ambient: 45°C in Standard Crane & Hoist Duty Motors • Ambient: 50°C in IE2 & IE3 Crane & Hoist Duty Motors • Duty: S4 • Offered in DOL & VFD Supply • Mounting: B3, B5, B35, V1 (B14 upto 132 Frame)	• Duty: S2, S3 and S5 • Non Standard Voltage: 380 to 460V • Insulation: Class H • Space Heater: 90 Frame onwards • BTD: 200 Frame & above	• PTC Thermistor: 80 to 355L • Roller Bearing: 160 Frame onwards • Shaft Material: En24* • Enclosure: IP56 / 65 / 66 • Motors for Inverter Duty	• Insulated Bearing: 132 Frame onwards • Non standard shaft diameter/extension* • Low Vibration as per IS or IEC • Non Standard Paint	Crane, Hoist, Lift, Material Handling, Car Stacker, Door Opening
IE2 & IE3 Crane & Hoist Duty Motors	71 to 355	0.37 to 400	4, 6, 8					
IE2 & IE3 Smoke Extraction Motors	71 to 200	0.25 to 37	2, 4, 6, 8		• Construction: TEFC • Ambient: 50°C • Insulation Class : H • Mounting: B3, B5, B35, • IP55 • Suitable for 300°C for 2 hours • Duty S1 in normal conditions, S2 in case of fire • Flying leads 1m • Paint shade RAL 2004 (Pure Orange)	• TEAO Construction with Flying leads • Terminal Box			Fan / Blower for extracting smoke in case of fire. Installed at office or public space, factory or warehouse, hospital or shopping mall, underground metro station, tunnels or airports etc.
Brake Motors (With External Mounted DC Brake)	71 to 200	0.25 to 30	4, 6, 8		• Ambient: 50°C • Duty: S1 • Mounting: B3, B5, B35	• Duty: S2 and above • Non Standard Voltage* • Motors for Inverter Duty	• Manual Release Arrangement • Non standard shaftdiameter/extension*	• Non Standard Paint	Crane, Hoist, Material Handling, Textile, Pharma to name a few
Brake Motors (With Integral DC Brake)	71 to 132	0.25 to 9.3	2, 4, 6, 8		• Ambient: 50°C • Duty: S1 • Mounting: B3, B5, B35	• Duty: S2 and above • Non Standard Voltage* • Motors for Inverter Duty	• Manual Release Arrangement frame 90 onwards • Double Shaft Extension for brake arrangement	• Non Standard Paint	Crane, Hoist, Material Handling, Textile, Pharma to name a few
Slip Ring Motors	100 to 160	1.1 to 10	4, 6		• Ambient: 45°C • Duty: S3, S4, S5 • Mounting: B3 • Mounting: B35	• Non standard shaft diameter & extension* • Non Standard Paint			Crane, Hoist, Lift, Material Handling
Cane Unloader Motors	160 to 225	11 to 30	6		• Ambient: 45°C • Start/Stop per Hour: upto 900 • Duty: S5, 50% CDF • Thermostat • Mounting: B3, B5, B35	• Shaft Material: En24 • Insulation: Class H • PTC Thermistor	• Insulated Bearing: 132 Frame onwards • Non Standard Paint		Cane Loading-Unloading Machine
Textile Motors	100 to 160	1.1 to 15	4, 6, 8		• Ambient: 50°C • Duty: S1 • Mounting: B3, B5, B35	• Non Standard Voltage: upto 500V • Insulation: Class H • Motors for Inverter Duty	• Low Vibration as per IS • Non Standard Paint		Ginning, Textile Machinery

Legends: LS PMSM: Line Start Permenant Magnet Synchronous Motor **DCCA:** Dual Cooling Circuit Arrangement **VPI:** Vacuum Pressure Impregnation **DOL:** Direct On Line **VFD:** Variable Frequency Drive

* Subject to confirmation from Bharat Bijlee

ALL INDIA SERVICE NETWORK

- Regional Offices
- Works
- Authorised Service Centre: Motors
- Service Centre: Servo Motors



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