

*Powered by Trust<sup>®</sup>*

 **Bharat Bijlee**

# **A MOTOR FOR EVERY NEED**

---

0.12kW to 1250kW



**ENERGY SAVING • RELIABILITY • WIDE RANGE**

January 2022

# LV Motors Product Range

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"> <li>Ambient: 50° C</li> <li>Ambient for DCCA: 40° C</li> <li>Inverter Grade Winding: For IE3 and DCCA</li> <li>Duty: S1</li> <li>RTD &amp; BTD: For DCCA motors</li> <li>Mounting: B3, B5, B35, V1, B14 upto 132 frame</li> </ul>	<ul style="list-style-type: none"> <li>Non Standard Voltage: upto 690V</li> <li>Higher Polarity on request</li> <li>Insulation: Class H</li> <li>Space Heater: 90 Frame onwards</li> <li>RTD &amp; BTD: 250 Frame onwards</li> <li>PTC Thermistor: 80 to 355L</li> <li>Shaft Material: EN24*</li> <li>Enclosure: IP56 / 65 / 66</li> <li>Forced Cooling: 132 to 450 Frame</li> <li>Roller Bearing: 160 Frame onwards</li> </ul>	<ul style="list-style-type: none"> <li>High Temperature Grease: Suitable up to 200° C</li> <li>SS Hardware</li> <li>Non standard shaft diameter/extension*</li> <li>Non Standard Paint</li> <li>Provision for Encoder Mounting</li> <li>Low Vibration as per IS or IEC</li> <li>Insulated Bearing: 132 Frame onwards</li> <li>SPM Nipples Provision: Frame 250 onwards</li> </ul>	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		<ul style="list-style-type: none"> <li>Ambient: 50° C</li> <li>Inverter Duty Winding</li> <li>Duty: S1</li> <li>VPI: With Class H solvent less Resin</li> <li>Mounting: B3, B5, B35, V1</li> </ul>	<ul style="list-style-type: none"> <li>Insulation: Class H</li> <li>Space Heater: 90 frame onwards</li> <li>PTC Thermistor: 80 to 225 Frame</li> <li>Shaft Material: EN24*</li> <li>Enclosure: IP56 / 65 / 66</li> <li>Roller Bearing: 160 Frame onwards</li> </ul>	<ul style="list-style-type: none"> <li>Non standard shaft diameter/extension*</li> <li>Non Standard Paint</li> <li>Provision for Encoder Mounting</li> <li>Low Vibration as per IS or IEC</li> </ul>	Fans, HVAC, Pumps, Textiles, Hydraulic Press
Large LT Motors (DCCA)	355 to 450	250 to 1250	2, 4, 6, 8		<ul style="list-style-type: none"> <li>Ambient: 45° C</li> <li>Inverter Grade Winding: For IE3 Motors</li> <li>Duty: S1</li> <li>Mounting: B3, B5, B35, V1</li> </ul>	<ul style="list-style-type: none"> <li>Non Standard Voltage: 220 to 690V</li> <li>Intermittent Duty S3, S4: In 4, 6, 8 Pole*</li> <li>Insulation: Class H</li> <li>PTC Thermistor: 80 to 315 L</li> <li>Space Heater: 90 Frame onwards</li> <li>Roller Bearing: 160 Frame onwards</li> <li>Shaft Material: EN24*</li> <li>Enclosure: IP56 / 65 / 66</li> </ul>	<ul style="list-style-type: none"> <li>Insulated Bearing: 132 Frame onwards</li> <li>Non standard shaft diameter/extension*</li> <li>Motors for inverter duty application ; offered with                             <ul style="list-style-type: none"> <li>Combined testing of motor and VFD or</li> <li>Motors fitted with PTC Thermistor</li> </ul> </li> <li>Test facility available for combined Testing with VFD</li> <li>Non Standard Paint</li> <li>Low Vibration as per IS or IEC</li> </ul>	Pump, Fan, Compressor, Material Handling, Agitator, LPG Bottling Plant, Pharma Machinery, Chemical Plant Machinery, Machinery for mines
IE4 Motors	112 to 225	1.5 to 45	4		<ul style="list-style-type: none"> <li>Ambient: 50° C</li> <li>Duty: S1</li> <li>Mounting: B3, B5, B35, V1 (B14 upto 132 Frame)</li> </ul>	<ul style="list-style-type: none"> <li>Insulation: Class H</li> <li>Shaft Material: EN24*</li> <li>Enclosure: IP56 / 65 / 66</li> <li>Roller Bearing: 160 Frame onwards</li> </ul>	<ul style="list-style-type: none"> <li>Insulated Bearing: 132 Frame onwards</li> <li>Non standard shaft diameter/extension*</li> <li>Motors for inverter duty application with combined testing of motor and VFD for temperature class certification</li> <li>Test facility available for combined testing with VFD</li> <li>Non Standard Paint</li> <li>Low Vibration as per IS or IEC</li> </ul>	Pump, Fan, Compressor, Material Handling, Agitator, Pharma Machinery
Standard Flame Proof Ex'd' Motors	80 to 355	0.37 to 315	2, 4, 6, 8		<ul style="list-style-type: none"> <li>Ambient: 45° C</li> <li>Duty: S4</li> <li>Offered in DOL &amp; Converter Fed Supply</li> <li>Mounting: B3, B5, B35, V1 (B14 upto 132 Frame)</li> </ul>	<ul style="list-style-type: none"> <li>Duty: S2, S3 and S5</li> <li>Non Standard Voltage: 380 to 460V</li> <li>Insulation: Class H</li> <li>Space Heater: 90 Frame onwards</li> <li>BTD: 250 Frame &amp; above</li> <li>PTC Thermistor: 80 to 355 L</li> <li>Roller Bearing: 160 Frame onwards</li> <li>Shaft Material: EN24*</li> <li>Enclosure: IP56 / 65 / 66</li> </ul>	<ul style="list-style-type: none"> <li>Motors for Inverter Duty</li> <li>Insulated Bearing: 132 Frame onwards</li> <li>Non standard shaft diameter/extension*</li> <li>Non Standard Paint</li> <li>Low Vibration as per IS or IEC</li> </ul>	Crane, Hoist, Lift, Material Handling, Car Stacker, Door Opening
IE2 Flame Proof Ex'd' Motors	80 to 355	0.37 to 315	2, 4, 6, 8		<ul style="list-style-type: none"> <li>Ambient: 50° C</li> <li>Duty: S1</li> <li>Mounting: B3, B5, B35</li> <li>Integral DC Brake</li> </ul>	<ul style="list-style-type: none"> <li>Duty: S2 and above</li> <li>Non Standard Voltage: upto 460V</li> <li>Motors for Inverter Duty</li> <li>Manual Release Arrangement: For 90 to 132 Frame</li> </ul>	<ul style="list-style-type: none"> <li>Non standard shaft diameter/extension*</li> <li>Non Standard Paint</li> </ul>	Crane, Hoist, Material Handling, Textile, Pharma to name a few
IE3 Flame Proof Ex'd' Motors	80 to 355	0.37 to 315	2, 4, 6, 8		<ul style="list-style-type: none"> <li>Ambient: 50° C</li> <li>Duty: S1</li> <li>Mounting: B3, B5, B35</li> <li>External Mounted DC Brake/Arrangement</li> </ul>	<ul style="list-style-type: none"> <li>Duty: S2 and above</li> <li>Non Standard Voltage: upto 460V</li> <li>Motors for Inverter Duty</li> <li>Manual Release Arrangement</li> </ul>	<ul style="list-style-type: none"> <li>Double Shaft Extension for brake arrangement</li> <li>Non Standard Paint</li> </ul>	Crane, Hoist, Material Handling, Textile, Pharma to name a few
IE2 Increased Safety Ex ec Motors	63 to 355	0.12 to 355	2, 4, 6, 8		<ul style="list-style-type: none"> <li>Ambient: 45° C</li> <li>Duty: S3, S4, S5</li> <li>Mounting: B3</li> </ul>	<ul style="list-style-type: none"> <li>Mounting: B35</li> <li>Non standard shaft diameter &amp; extension*</li> </ul>	<ul style="list-style-type: none"> <li>Non Standard Paint</li> </ul>	Crane, Hoist, Lift, Material Handling
IE3 Increased Safety Ex ec Motors	63 to 355	0.12 to 355	2, 4, 6, 8		<ul style="list-style-type: none"> <li>Ambient: 50° C</li> <li>Duty: S1</li> <li>Mounting: B3, B5, B35</li> </ul>	<ul style="list-style-type: none"> <li>Non Standard Voltage: upto 500V</li> <li>Insulation: Class H</li> </ul>	<ul style="list-style-type: none"> <li>Motors for Inverter Duty</li> <li>Non Standard Paint</li> <li>Low Vibration as per IS</li> </ul>	Ginning, Textile Machinery
Crane & Hoist Duty Motors	71 to 355	0.37 to 400	4, 6, 8		<ul style="list-style-type: none"> <li>Ambient: 45° C</li> <li>Start/Stop per Hour: upto 900</li> <li>Duty: S5, 50% CDF</li> <li>Thermostat</li> <li>Mounting: B3, B5, B35</li> <li>Forced Cooling</li> <li>Shaft Material: En24</li> </ul>	<ul style="list-style-type: none"> <li>Insulation: Class H</li> <li>PTC Thermistor</li> </ul>	<ul style="list-style-type: none"> <li>Insulated Bearing: 132 Frame onwards</li> <li>Non Standard Paint</li> </ul>	Cane Loading-Unloading Machine
Brake Motors (With Integral DC Brake)	71 to 132	0.25 to 9.3	2, 4, 6, 8					
Brake Motors (With External Mounted Brake)	71 to 200	0.37 to 22	2, 4, 6, 8					
Slip Ring Motors	100 to 160	1.1 to 10	4, 6					
Textile Motors	100 to 160	1.1 to 15	4, 6, 8					
Cane Unloader Motors	160 to 225	11 to 30	6					

\* Subject to confirmation from Bharat Bijlee

# ALL INDIA SERVICE NETWORK

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



## REGIONAL OFFICES

- Mumbai** +91 22 61457200
- Pune** +91 7410011271 / 72
- Ahmedabad** +91 79 66049200
- New Delhi** +91 11 25816931 / 32 / 33
- Indore** +91 731 2524474 / 2514486
- Ludhiana** +91 161 2775692 / 93
- Jaipur** +91 141 2377223
- Kolkata** +91 33 24432383 / 2467 / 40623076 / 77
- Bengaluru** +91 80 25592646 / 2137 / 2681
- Chennai** +91 44 2815 4793 / 94
- Secunderabad** +91 40 27801791 / 27814512
- Coimbatore** +91 422 4204314

For any enquiries please write to [motorlvsales@bharatbijlee.com](mailto:motorlvsales@bharatbijlee.com)



+91 22 - 2763 7290 | [serviceline@bharatbijlee.com](mailto:serviceline@bharatbijlee.com)



**REGISTERED OFFICE**  
 Electric Mansion, 6th Floor,  
 Appasaheb Marathe Marg,  
 Prabhadevi, Mumbai 400 025  
 T: +91 22 2430 6237 / 6375  
 E: [info@bharatbijlee.com](mailto:info@bharatbijlee.com)  
 CIN: L31300MH1946PLC005017

**WORKS**  
 No. 2, MIDC Thane-Belapur Road, Airoli,  
 Navi Mumbai 400 708  
 T: +91 22 2763 7200 / +91 22 2760 0401  
[www.bharatbijlee.com](http://www.bharatbijlee.com)

All product designations may be trademarks or product names of Bharat Bijlee Ltd, or of its partner or supplier companies, and whose use by third parties for their own purposes could violate the rights of the owners.

Product improvement is a continuous process and technical information herein is subject to change. Please contact our nearest sales office for the latest information.