

Powered by Trust®

 **Bharat Bijlee**

A MOTOR FOR EVERY NEED

0.12kW to 1250kW



ENERGY SAVING • RELIABILITY • WIDE RANGE

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 IE3 Motors Large LT Motors (DCCA)	71 to 355 80 to 355 355 to 450	0.37 to 355 0.55 to 355 250 to 1250	2, 4, 6 2, 4, 6 2, 4, 6, 8		<ul style="list-style-type: none"> Ambient: 50° C Ambient for DCCA: 40° C Mounting: B3, B5, B35, V1 Inverter Grade Winding: For IE3 and DCCA Duty: S1 RTD & BTD: For DCCA motors 	<ul style="list-style-type: none"> Non Standard Voltage: upto 690V Shaft Material: EN24 Enclosure: IP56 / 65 / 66 Forced Cooling: 132 to 450 Frame Space Heater: 90 Frame onwards Roller Bearing: 160 Frame onwards RTD & BTD: 250 Frame onwards Insulation: Class H Thermistor: 80 to 355L 	<ul style="list-style-type: none"> Insulated Bearing: 160 Frame onwards High Temperature Grease: Suitable up to 200° C Higher Polarity on request SS Hardware Non std shaft diameter / extension (subject to confirmation) Non Standard Paint Provision for Encoder Mounting Low Vibration as per IS or IEC 	Most common applications comprising of: 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
IE4 MOTORS	112 to 225	1.5 to 45	4		<ul style="list-style-type: none"> Ambient: 50° C Mounting: B3, B5, B35, V1 Inverter Duty Winding Duty: S1 VPI: With Class H solvent less Resin 	<ul style="list-style-type: none"> Shaft Material: EN24 Enclosure: IP56 / 65 / 66 Roller Bearing: 160 Frame onwards Insulation: Class H Space Heater: 90 frame onwards Thermistor: 80 to 225 Frame 	<ul style="list-style-type: none"> Non std shaft diameter / extension (subject to confirmation) Non Standard Paint Provision for Encoder Mounting Low Vibration as per IS or IEC 	Fans, HVAC, Pumps, Textiles, hydraulic press
Standard Flame Proof Motors IE2 Flame Proof Motors IE3 Flame Proof Motors	80 to 315 80 to 315 80 to 315	0.37 to 200 0.37 to 200 0.75 to 180	2, 4, 6, 8 2, 4, 6, 8 2, 4, 6		<ul style="list-style-type: none"> Ambient: 45° C Mounting: B3, B5, B35, V1 Inverter Grade Winding: For IE3 Motors Duty: S1 	<ul style="list-style-type: none"> Non Standard Voltage: 550V Shaft Material: EN24 Enclosure: IP56 / 65 / 66 Space Heater: 90 Frame onwards Roller Bearing: 160 Frame onwards Insulation: Class H 8 pole motor on request Thermistor: 80 to 315 L 	<ul style="list-style-type: none"> Insulated Bearing: 160 Frame onwards Intermittent Duty S3, S4: 80 to 132 Frame in 4 pole only Non std shaft diameter / extension Motors for Inverter Duty Test facility for combined Testing with VFD Non Standard Paint Low Vibration as per IS or IEC 	Most common applications comprising of: Pump, Fan, Compressor, Material Handling, Agitator, LPG Bottling Plant, Pharma Machinery, Chemical Plant Machinery, Machinery for mines
IE2 Non - Sparking Motors	71 to 355	0.37 to 355	2, 4, 6		<ul style="list-style-type: none"> Ambient: 50° C Mounting: B3, B5, B35, V1 (B14 upto 132 Frame) Duty: S1 	<ul style="list-style-type: none"> Shaft Material: EN24 Enclosure: IP56 / 65 / 66 Roller Bearing: 160 Frame onwards Insulation: Class H 	<ul style="list-style-type: none"> Insulated Bearing: 160 Frame onwards Higher Polarity on request Non std shaft diameter / extension Motors for Inverter Duty Test facility for combined testing with VFD Non Standard Paint Low Vibration as per IS or IEC 	Pump, Fan, Compressor, Material Handling, Agitator, Pharma Machinery
Crane & Hoist Duty Motors	71 to 355	0.37 to 400	4, 6, 8		<ul style="list-style-type: none"> Ambient: 45° C Mounting: B3, B5, B35, V1 (B14 upto 132 Frame) Duty: S2, S3, S4, S5 Offered in DOL & Converter Fed Supply 	<ul style="list-style-type: none"> Non Standard Voltage: 380 to 460V Shaft Material: EN24 Enclosure: IP56 / 65 / 66 Space Heater: 90 Frame onwards Roller Bearing: 160 Frame onwards BTD: 250 Frame & above Insulation: Class H Thermistor: 80 to 355 L 	<ul style="list-style-type: none"> Insulated Bearing: 160 Frame onwards Non std shaft diameter & extension Motors for Inverter Duty Non Standard Paint Low Vibration as per IS or IEC 	Crane, Hoist, Lift, Material Handling, Car Stacker, Door Opening
Brake Motors (With Integral DC Brake)	71 to 132	0.37 to 9.3	2, 4, 6, 8		<ul style="list-style-type: none"> Ambient: 50° C Duty: S1, S2, S3, S4, S5 Mounting: B3, B5, B35 Integral DC Brake 	<ul style="list-style-type: none"> Non Standard Voltage: upto 460V Manual Release Arrangement: For 90 to 132 Frame Motors for Inverter Duty 	<ul style="list-style-type: none"> Non std shaft diameter & extension Double Shaft Extension for brake arrangement 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		<ul style="list-style-type: none"> Ambient: 50° C Duty: S1, S2, S3, S4, S5 Mounting: B3, B5, B35 External Mounted DC Brake/Arrangement 	<ul style="list-style-type: none"> Non Standard Voltage: upto 460V Manual Release Arrangement Motors for Inverter Duty 	<ul style="list-style-type: none"> Double Shaft Extension for brake arrangement Non Standard Paint Higher Braking Torque 	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° C Mounting: B3, B35 Duty: S3, S4, S5 	<ul style="list-style-type: none"> Non std 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° C Mounting: B3, B5, B35 Duty: S1 	<ul style="list-style-type: none"> Non Standard Voltage: upto 500V Insulation: Class H 	<ul style="list-style-type: none"> Motors for Inverter Duty Non Standard Paint Low 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° C Start/Stop per Hour: upto 900 Mounting: B3, B5, B35 Forced Cooling Thermostat Duty: S5, 50% CDF Shaft Material: EN24 	<ul style="list-style-type: none"> Insulation: Class H Thermistor 	<ul style="list-style-type: none"> Insulated Bearing: 160 Frame onwards Non Standard Paint 	Cane Loading-Unloading Machine

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Product improvement is a continuous process and technical information herein is subject to change.