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 **Bharat Bijlee**

A MOTOR FOR EVERY NEED

0.12kW to 1250kW



ENERGY SAVING • RELIABILITY • WIDE RANGE

Motors Conform to relevant Indian Standards (IS) & IEC 60034 series

Voltage: 415V +/- 10%, Frequency: 50 Hz +/- 5%, Combined Variation: +/- 10%

Motor Type	Frame	Power (kW)	Polarity		Standard Technical Specifications
IE2 Motors	71 to 355	0.37 to 355	2, 4, 6		<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
IE3 Motors	80 to 355	0.55 to 355	2, 4, 6		
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° C Mounting: B3, B5, B35, V1 Inverter Duty Winding Duty: S1 VPI: With Class H solvent less Resin
Standard Flame Proof Motors	80 to 315	0.37 to 200	2, 4, 6, 8		<ul style="list-style-type: none"> Ambient: 45° C Mounting: B3, B5, B35, V1 Inverter Grade Winding: For IE3 Motors Duty: S1
IE2 Flame Proof Motors	80 to 315	0.37 to 200	2, 4, 6, 8		
IE3 Flame Proof Motors	80 to 315	0.75 to 180	2, 4, 6		
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
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
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
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
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
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
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

Product Range

Insulation: Class F with temperature rise limited to Class 'B'
Cooling: IC411, Altitude: up to 1000m above MSL, Rotation: Bi-directional

Optional Features		Applications
<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 	<p>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</p>
<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 	<p>Fans, HVAC, Pumps, Textiles, hydraulic press</p>
<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 	<p>Most common applications comprising of: Pump, Fan, Compressor, Material Handling, Agitator, LPG Bottling Plant, Pharma Machinery, Chemical Plant Machinery, Machinery for mines</p>
<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 	<p>Pump, Fan, Compressor, Material Handling, Agitator, Pharma Machinery</p>
<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 	<p>Crane, Hoist, Lift, Material Handling, Car Stacker, Door Opening</p>
<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 	<p>Crane, Hoist, Material Handling, Textile, Pharma to name a few</p>
<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 	<p>Crane, Hoist, Material Handling, Textile, Pharma to name a few</p>
<ul style="list-style-type: none"> • Non std shaft diameter & extension 	<ul style="list-style-type: none"> • Non Standard Paint 	<p>Crane, Hoist, Lift, Material Handling</p>
<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 	<p>Ginning, Textile Machinery</p>
<ul style="list-style-type: none"> • Insulation: Class H • Thermistor 	<ul style="list-style-type: none"> • Insulated Bearing: 160 Frame onwards • Non Standard Paint 	<p>Cane Loading-Unloading Machine</p>

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