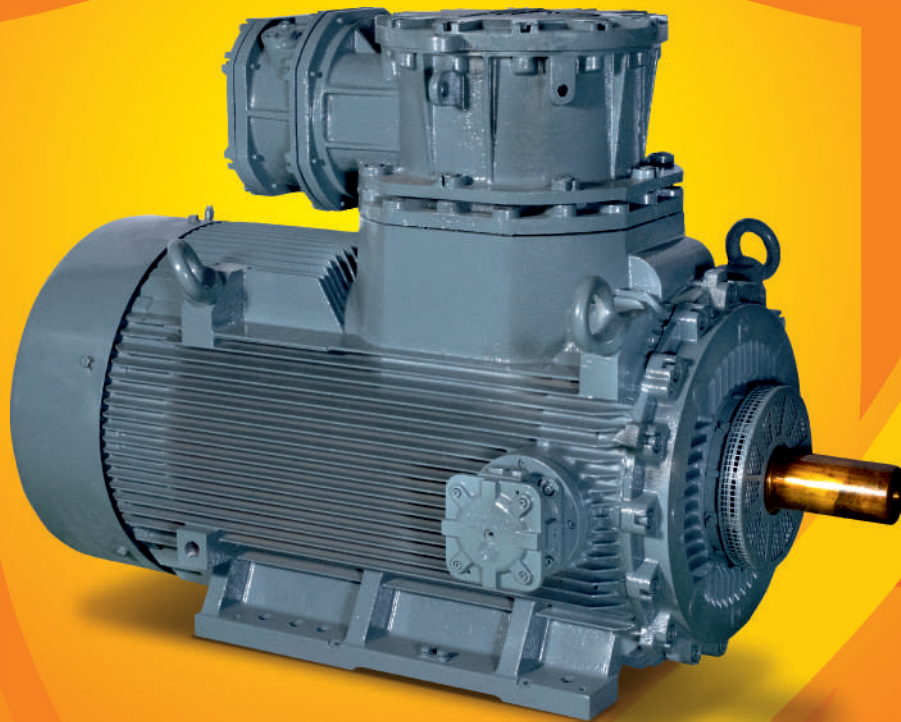


Powered by Trust®

 Bharat Bijlee

# Hazardous Area Motors Range

Safety First, Always | Reliable | Long Lasting



A MOTOR FOR EVERY NEED

## HAZARDOUS AREA MOTORS RANGE

Type of Motor	Power (kW)	Frame Size	Pole	Approval
<b>Flame Proof (FLP) Ex'd' Motors</b>				
Standard Efficiency	0.37 to 315	80 to 355	2, 4, 6 and 8	PESO, DGMS
IE2 Efficiency	0.37 to 315	80 to 355	2, 4, 6 and 8	PESO, DGMS, ATEX, IECEx
IE3 Efficiency	0.37 to 315	80 to 355	2, 4, 6 and 8	PESO, DGMS, ATEX, IECEx
<b>Increased Safety Ex ec Motors</b>				
IE2 Efficiency	0.12 to 355	63 to 355	2, 4, 6 and 8	PESO
IE3 Efficiency	0.12 to 355	63 to 355	2, 4, 6 and 8	PESO

## CERTIFICATIONS & APPROVALS



**PESO**  
Other Than Coal Mines;  
Zone 1 & 2; Gas Group IIA & IIB



**DGMS**  
Coal Mines: Zone1,  
Gas Group I



**IECEx**  
To countries other  
than Europe



**ATEX**  
To European  
countries



**Bureau of Indian Standards**  
The National Standards of India



**ISO 9001:2015**



**ISO 14001:2015**



**ISO 45001:2018**



## BHARAT BIJLEE MOTORS FRAME-WISE GAS GROUP CLASSIFICATION

IEC Frame Size	BB Frame Size	Gas Group
80	MJ 80	IIA, IIB
90	MJ 90	IIA, IIB
100	MJ 100	IIA, IIB
112	MJ 112	IIA, IIB
132	MJ 132	IIA, IIB
160	MJ 160	IIA, IIB
180	MJ 180	IIA, IIB
200	MJ 200	IIA, IIB
225	MJ 225	IIA, IIB
250	MJ 250	IIA, IIB
280	MJ 280	IIA, IIB
315	MJ 315	IIA, IIB
355	MJ 355	IIA, IIB & IIC

Bharat Bijlee flameproof motors are suitable for Temperature Class T1 to T4 (for other temperature class requirement, please contact nearest sales office.)

## STANDARD AND OPTIONAL FEATURES

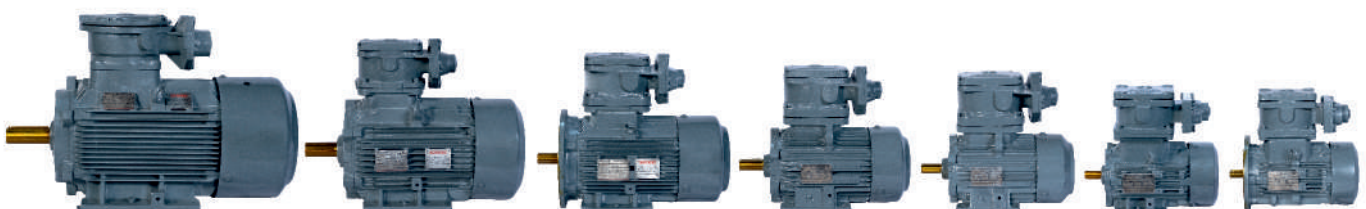
Standard Features	Optional Features
Voltage: 415V	220 to 690V
Frequency: 50 Hz	60 Hz
IP55	IP56, IP65, IP66
B3 Mounting	B5, B35, V1
Ambient: 45°C	Any other on request
Duty: S1	S3 / S4 Duty: on request
TB Position: Top	TB Position: RHS: 112 Frame and above LHS: 160 Frame and above
Cast Iron Construction: For all frames	
Shaft Material: EN8	EN24, EN57
Insulation: Class F	Insulation: Class H
IC411: Totally Enclosed Fan Cooled	
Sealed Bearing: upto 200 Frame Online Greasing Arrangement: 225 Frame and above	Online Greasing Arrangement: 180 to 200 Frame
Paint Shade: AAP 632	AAP Epoxy based RAL grade or Epoxy based IS:5 grade
Fan Cover: Mild Steel	
Gelcoat on Winding: For all frames	
Space Heater: 315 & 355 frames	Space Heater: 90 Frame and above
Motor suitable for grid supply	<b>Motors with Inverter Duty Suitability, offered with:</b> 1. Combined testing for temperature class certification; test facility available 2. Motor fitted with PTC thermistor
Packing: Corrugated Boxes: Upto 100 Frame Wooden Packing Boxes: 112 Frame and above	Seaworthy/Export Packing Case
For standard bearings, kindly refer to the bearing chart	Insulated Bearing: 132 Frame and above (hybrid bearing till 225 Frame) Cylindrical Roller Bearing on DE Side: 160 Frame and above

### Our other optional features

- Non standard shaft material, diameter and extension
- Double compression glands
- Auxiliary Terminal Box: 200 Frame and above
- Thermistor: 90 Frame and above
- Canopy, water flinger, non standard paint and paint shade
- High temperature grease
- Reduced and special grades of vibration as per IS 12075 can be provided on request
- IE2 & IE3 Flameproof Motors for Zone 21 & 22

### Note

- 1) Kindly confirm application wise requirement of cable sealing box and auxiliary terminal box with our nearest sales office.
- 2) For any other non standard feature, kindly contact our nearest sales office.
- 3) For enquiries of ATEX / IECEx certified motors, kindly contact our nearest sales office.



# 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



**REGISTERED OFFICE**  
 Electric Mansion, 6th Floor,  
 Appasaheb Marathe Marg,  
 Prabhadevi, Mumbai 400 025  
 T: +91 22 2430 6237 / 6375  
 E: 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

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.

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

**BB ServiceLINE®**  
 Customer Service Helpdesk for Industrial Systems  
 +91 22 - 2763 7290  
[serviceline@bharatbijlee.com](mailto:serviceline@bharatbijlee.com)

Dealer Name