

**TOSHIBA**  
 Leading Innovation >>>

**EQP** Global<sup>®</sup>  
 IEC



**Efficiency, Quality, & Performance (EQP) — The EQP Global<sup>®</sup> IEC is Toshiba's next-generation efficiency motor series.**

This cutting-edge motor product line is designed to meet or exceed the competitive demands of the global market, as well as the requirements of the IEC 60034, while maintaining the high reliability and quality expected from Toshiba.

The EQP Global IEC motor series is designed for severe duty applications. Building on over 20 years of success with the EQP III motor series, the EQP Global IEC features multiple new design enhancements that make it one of the lowest cost-of-ownership products in the industry.

The EQP philosophy extends beyond great products. Toshiba provides solutions and Global Supply Chain Management Systems (GSCMS) to meet the evolving needs of global customers.

Power	.75 to 45 kw
Speed (50 Hz)* (60 Hz)	3000, 1500, or 1000 RPM 3600, 1800, or 1200 RPM
Voltage (50 Hz)* (60 Hz)	230/400, 208/415, 220/380, or 400 V 460 V
Enclosure	Totally Enclosed Fan Cooled (IC411)
Frame Size	80M through 225S
Ingress Protection	IP55
Construction	Aluminum Fin Type (80-160 Frame) Cast Iron (180-225 Frame)
Insulation	Class F, Exceeds NEMA MG1 Part 31 (Inverter Duty)
Vibration	Typically Maximum 0.1 Inches/Second or Less (Unfiltered)
Environment	Suitable for Indoor or Outdoor Use in Severe Duty Applications

*\*50/60 Hz Listed on Nameplate on .75 through 45 kw*

- IE3 Efficiency Levels per IEC 60034-30
- Meets or Exceeds Global Standard Specifications such as IEC60034 , 60072 , 60204 , 60038, & 60721 (Where Applicable)
- Dual-Frequency 50/60 Hz Design and Listed on the Nameplate
- Multi-mount for 225 Frame (225M & 225S)
- Inverter-Duty Rated
- Aluminum frame with Removable Base for 90S through 132M Frames
- Available Interchangeable Flange Options (B5/B35 and B14/34)
- Option for Cast Iron Fan Cover for 180-225



**EQP GLOBAL IEC**  
 LOW VOLTAGE MOTOR



## BUILT FOR SEVERE DUTY APPLICATIONS



### Nameplate

- 304 SS Stainless Steel
- Etched Lettering
- Dual-Frequency 50/60 Hz
- Connection Diagram



### Construction

- Aluminum Fin Frame and Cast Iron Brackets for 80-160
- Cast Iron Fin Frames End Brackets for 180-225
- Shaft V Ring Protection System
- Dual-Mount 225 IEC Frame (225M & 225S)
- IP55 Ingress Protection
- Typical Unfiltered Vibration of Max 3.94 mm/sec.
- Lead Separation Protection
- Fabricated Steel Fan Covers



### Conduit Box

- Fabricated Steel or Aluminum Box for 80-160
- Cast Iron Box for 180-225
- Top Mount with 90° Rotational Option
- Grounding Provisions: One Plastic Gland and One Plug (Metric Threaded)
- Terminal Block
- Gasketed Conduit Box



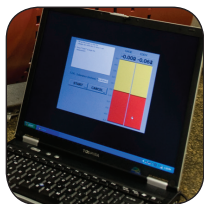
### Bearing System

- Oversized Bearings for Extended Bearing Life
- Regreasable 180 Frame & Larger
- Low Temperature Rise for Extended Life  
(Max of 55°C Rise @1.0 SF by Thermocouple Stabilized)
- L-10 Life of 100,000 Hours for Direct-Coupled Applications
- L-10 Life of 40,000 Hours for Belted Applications



### Insulation System

- Inverter Duty Rated that Exceeds NEMA MG1 Part 31 Part 31.4.4.2
- Class B Rise by Resistance @ 1.0 SF
- Thermally Protected; 3 PTC Thermistors for ≥160 Frame  
(One per Phase with Color Coded Leads) - 155°C
- Voltage Withstands Capability of 2000 V in 0.1 μ S
- Large Thermal Margins for Extended Life & Reliability
- Phase Paper & Coil Bracing on Both Ends



### Testing

- 100% No-load commercial Test on All Motors
  - » Commercial & Vibration Tests

