

**TOSHIBA**  
Leading Innovation >>>



**Efficiency, Quality, & Performance (EQP) — The EQP Global® SD is Toshiba's next-generation NEMA Premium® efficiency motor series.**

Toshiba's general purpose, totally enclosed fan cooled, NEMA Premium® efficiency, EQP Global® SD motor series is Toshiba's next-generation motor product line. This cutting-edge motor product line is designed to meet or exceed the competitive demands of the global market, as well as the amended integral horsepower (HP) rule IHMR 2016, while maintaining the high reliability and quality expected from Toshiba.

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

Our EQP philosophy extends beyond great products. We provide solutions and Global Supply Chain Management Systems (GSCMS) to meet the evolving needs of our global customers.

- NEMA Premium® Efficiency (1 through 500 HP)  
Per IHMR Effective June 1, 2016
- Addresses Global Motor Specifications Including CE, NEMA, & CSA
- Dual-Frequency 50/60 Hz Design\*\*
- Inverter-Duty Rated -  
Exceed NEMA MG1 Part 31 of Inverter Duty

*\*\*Multi-Mounts on Most Frames.  
F1/F2 Field Interchangeable on Most Frames.*



Horsepower	0.5 to 1000 HP
Speed (60 Hz) (50 Hz)*	3600, 1800, 1200, or 900 RPM 3000, 1500, or 1000 RPM
Voltage (60 Hz) (50 Hz)*	230/460, 460, or 575 V 190/380 V or 380 V
Enclosure	Totally Enclosed Fan Cooled
Frame Size	56 through 6811
Protection	IP55
Construction	Cast Iron (Frame & Brackets)
Mounting	Footed with C-Face Option Available
Insulation	Class F, Exceeds NEMA MG1 Part 31 (Inverter Duty)
Vibration	Typically Maximum 0.08 Inches/Second or Less (Unfiltered)
Environment	Severe Duty, Suitable for Use in Class 1 Division 2 Hazardous Locations

*\*50/60 Hz Listed on Nameplate on 230/460 V 140-360 Frame*



**EQP GLOBAL SD**

**LOW VOLTAGE MOTOR  
SEVERE DUTY**





## BUILT FOR SEVERE DUTY APPLICATIONS



### Nameplate

- Stainless Steel (304)
- Etched or Engraved Lettering
- Dual-Frequency 50/60 Hz on Nameplate
- Connection Diagram
- Inverter Duty on Nameplate



### Construction

- Cast Iron Frame & Bearing Brackets
- Shaft Slinger Protection
- Multi-Mount on Most Frames
- Gasket Provided Between Motor Frame & Conduit Box
- Typical Unfiltered Vibration Levels Max. 0.1 Inches/Second or Less
- IP55 Protection
- Multiple Drain Provisions for Horizontal & Vertical Mounting
- Die Cast Aluminum or Copper Bar Rotor Construction
- Frame Grounding Provisions on 400 Frame & Larger
- Multiple Drain Provisions 140-400 Frames



### Conduit Box

- Gasketed Cast Iron Construction 140 Frame & Larger
- Terminal Lugs on 280 Frame & Larger
- Rotatable (90°)
- NPT Conduit Opening On Cast Iron Boxes (Steel Box on 56 Frame)



### Bearing System

- Oversized 300 Series Bearings on 5800 Frames (DE & ODE) & Smaller
- Regreasable 280 Frame & Larger
- Locked Drive-End Bearing 210 Frame & Larger
- Low Temperature-Rise for Extended Life
- L-10 Life of 150,000 Hours for Direct-Coupled Applications
- L-10 Life of 40,000 Hours for Belted Applications
- 200 Series for Anti-Friction 6800 & Sleeved Bearing Oil Lubricated for 2 Pole 6800 Frame



### Insulation System

- Major Components Made from Class H Rated Materials
- Low-Loss Electrical Steel
- Exceeds NEMA MG1 Part 31
- Voltage Withstand Capability of 2000 V in 0.1  $\mu$ s
- Large Thermal Margins for Extended Life & Reliability
- Phase Paper & Coil Bracing on Both Ends
- Div2, Class I on Sine Wave & PWM Power - Check Appendix C in Motor Catalog for T-Code



### Testing

- 100% No-Load Commercial Test per IEEE 112 on All Motors

