

TOSHIBA

EQP Global[®] 840

Efficiency, Quality, & Performance (EQP)—
The EQP Global[®] 840 motor series is
Toshiba's next-generation NEMA Premium[®]
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 amended integral horsepower (HP) rule IHMR 2016, while maintaining the high reliability and quality expected from Toshiba.

The EQP Global 840 specifically addresses the needs of the mill and chemical industries, incorporating many key features of an IEEE-841 motor. Building on over 20 years of success with our EQPIII motor series, the EQP Global 840 features design enhancements on the rotor, frame, brackets, fan, and bearings.

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



3 THREE YEAR
WARRANTY

Horsepower	3/4 to 500 HP
Speed (60 Hz) (50 Hz)	3600, 1800, 1200, or 900 RPM 3000, 1500, 1000, or 750 RPM
Voltage (60 Hz) (50 Hz)	460 or 575 V 380 V (1-75 HP, 365T Frame)
Enclosure	Totally Enclosed Fan Cooled
Frame Size	143T through 5810UZ
Protection	IP55 or IP56
Construction	All Cast Iron
Insulation	Class F Inverter Duty, Exceeds NEMA MG1 Part 31
Vibration	Typically 0.06 IPS or Less, Unfiltered
Mounting	Horizontal & Vertical with C and D Flange Options
Environment	Severe Duty, Suitable for Use in Class I Division 2 Hazardous Locations



EQP GLOBAL 840

**LOW VOLTAGE MOTOR
MILL & CHEMICAL DUTY**





BUILT FOR MILL & CHEMICAL DUTY APPLICATIONS



Nameplate

- 304 Stainless Steel
- NEMA Premium® Design
- Etched or Engraved Lettering
- Inverter Duty Rated
- Lubrication Label 284T Frame & Larger
- Marine Duty IEEE 45
- Class I, Division 2 Groups A/B/C/D



Construction

- Cast Iron Frame, Fan Cover, Conduit Box & Bearing Brackets
- Multi-Mount Capabilities on Most Frames (See Appendix B in Industrial Catalog)
- Lead Seal Gasket Provided Between Motor Frame & Conduit Box
- Typical Unfiltered Vibration Levels of 0.06 IPS or Less
- Protective Coating on All Internal Machined Surfaces
- IP55 or IP56 Protection
- Multiple Drain Provisions for Horizontal & Vertical Mounting



Conduit Box

- Gasketed Cast Iron Construction
- UL Ground Lug
- Lead-Separation Protection
- Terminal Lugs on Frame 213T & Larger
- Rotatable 90° Increments
- NPT Conduit Opening



Bearing System

- Oversized 300 Series Bearings (DE & ODE)
- Low Temperature Rise for Extended Life
- L-10 Bearing Life of 150,000 Hours Direct-Coupled
- L-10 Bearing Life of 40,000 Hours Belted
- Shaft/Slinger Bearing Protection 143T to 286T Frame
- Double Shaft Seal Arrangement 324T-365T Frame (DE & ODE)
- Labyrinth Seal 404T Frame & Larger (DE & ODE)



Insulation System

- Low-Loss Electrical Steel
- Exceeds NEMA MG1 Part 31
- Voltage Withstand Capability of 2000 V in 0.1 μs
- Large Thermal Margins for Extended Life & Reliability
- Phase Paper & Coil Bracing on Both Ends
- Class H Rated Magnet Wire and Varnish
- Class H Rated Insulation Materials on 449T Frames & Larger



Testing

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

