

TOSHIBA

Leading Innovation >>>

EQP Global 841



Efficiency, Quality, & Performance (EQP) – The EQP Global™ 841 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 requirements of the Energy Independence & Security Act of 2007 (EISA), while maintaining the high reliability and quality expected from Toshiba.

The EQP Global 841 specifically addresses the needs of the petrochemical industry, where premium performance and reliability are imperative. Building on over 20 years of success with our EQPIII motor series, the EQP Global 841 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
- Meets or Exceeds Energy Independence & Security Act of 2007 (EISA)
- Addresses Global Motor Specifications Including CE, NEMA, & IEC
- Dual-Frequency 50/60 Hz Design
- Inverter-Duty Rated
- Multi-Mount on 140 Through 445 & N449 Frames

Horsepower	3/4 to 300 HP
Speed (60 Hz)	3600, 1800, or 1200 RPM
Voltage (60 Hz)	460 or 575 V
Enclosure	Totally Enclosed Fan Cooled
Frame Size	143T through N449T
Protection	IP56
Construction	All Cast Iron
Insulation	Class F, Exceeds NEMA MG1 Part 31 (Inverter Duty)
Vibration	Typically 0.04 Inches/Second or Less
Mounting	Motors Suitable for Horizontal & Vertical Mounting; Motors also Available with C-Face Mounting
Environment	Severe Duty, Suitable for Use in Division 2 Hazardous Locations



EQP Global 841

LOW VOLTAGE MOTOR
PETRO-CHEMICAL DUTY





EQP GLOBAL 841 - BUILT FOR PETRO-CHEMICAL DUTY



Nameplate

- Stainless Steel
- NEMA Premium® Design
- Raised Letters for Clarity
- Inverter-Duty Rating on Nameplate (1 to 200 HP, 4- & 6-Pole)
- Separate Lubrication Label on All Frames



Construction

- Cast Iron Frame & Bearing Brackets
- Multi-Mount Construction
- Gasket Provided Between Motor Frame & Conduit Box
- Typical Unfiltered Vibration Levels of 0.08 Inches/Second or Less
- Protective Coating on All Internal Machined Surfaces
- IP56 Protection
- Multiple Drain Provisions for Horizontal & Vertical Mounting



Conduit Box

- Gasketed Cast Iron Construction
- UL Ground Lug
- Lead-Separation Protection
- Terminal Lugs on All Frames
- Rotatable (90°)
- NPT Drill & Tap Conduit Opening



Bearing System

- Oversized 300 Series Bearings on All Frames (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
- Labyrinth Seal on All Frames, Both Ends
- Open Regreaseable on All Frames



Insulation System

- Major Components Made from Class H Rated Materials
- Low-Loss Electrical Steel
- Exceeds NEMA MG1 Part 31
- 20:1 Constant Torque & 60:1 Variable Torque (1 to 200 HP, 4- & 6-Pole)
- Voltage Withstand Capability of 2000 V in 0.1 μs
- Large Thermal Margins for Extended Life & Reliability
- Phase Paper & Coil Bracing on Both Ends on All Motor Ratings



Testing

- 100% No-Load Commercial Test & Vibration Test on All Motors
- On 440 Frame & Larger 100% of Bearings are Ball-Pass Frequency Tested
- Commercial Test Report with Vibration Data Supplied with All Motors

