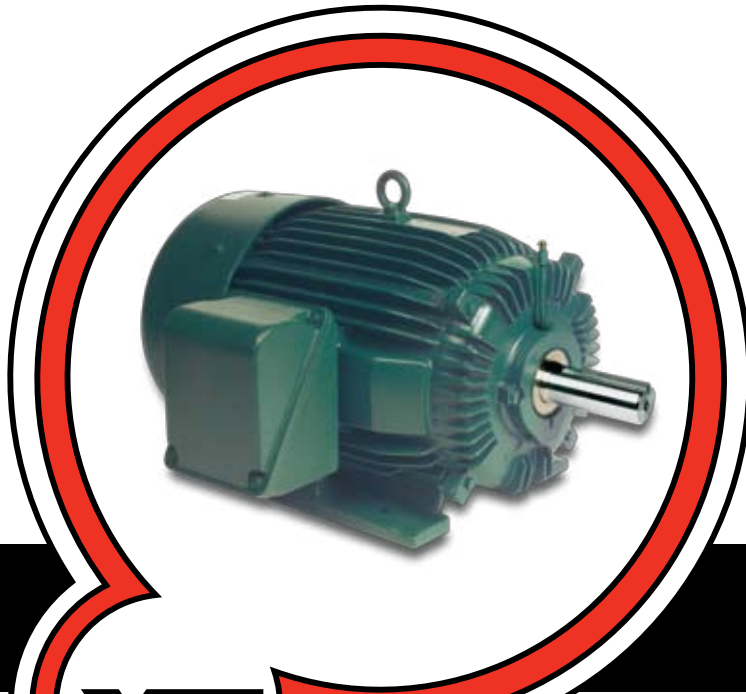


**LOW VOLTAGE MOTORS**



**EQPIII-840<sup>TM</sup>**

**XT**

**Mill &  
Chemical  
Duty**

**Reliability in motion<sup>®</sup>**

- NEMA Premium<sup>®</sup> Efficiency **NEMA Premium<sup>®</sup>**
- Inverter Duty
- 20:1 Constant Torque  
(1 to 200 HP, 1800 & 1200 RPM)
- IP54 or IP55 Protection
- Labyrinth Seal on DE & ODE (320 Frame & Larger)
- Test Report with Every Motor

**3** Year  
Warranty

**PRODUCT SCOPE**

Horsepower	3/4 to 500 HP
Speed	3600, 1800, 1200, or 900 RPM
Voltage	460 or 575 V
Enclosure	Totally Enclosed Fan Cooled
Frame Size	143T through 5810U
Construction	Cast Iron
Vibration (Unfiltered)	Typically 0.06 Inches/Second or Less
Insulation	Class F, Exceeds NEMA MG1 Part 31 (Inverter Duty)

# DESIGNED FOR MILL & CHEMICAL DUTY APPLICATIONS

## EQP III 840

EXTREME MOTOR PRODUCTS

Toshiba's EQP III-840 motor series addresses the special requirements of the mill and chemical industries where motor performance and reliability are imperative. The EQP III-840 is built using the cornerstone of the Toshiba motor product offering as a base. This high-end product incorporates many of the key features of an IEEE-841 motor in a more cost-effective package. Designed for indoor and outdoor use, it is the perfect solution for applications where IEEE-841 requirements are not mandated. Its performance offers 20 to 1 constant torque, oversized bearings, IP54 or IP55 protection, Class F insulation system, and NEMA Premium® design meeting the NEMA energy efficiency requirements as listed in NEMA MG1 Table 12-12.

### Construction



- Cast Iron Frame & Bearing Brackets
- Shaft/Slinger Bearing Protection 140 to 280 Frame
- Multi-Mount Construction
- Gasket Provided Between Motor Frame & Conduit Box
- Typical Unfiltered Vibration Levels of 0.06 Inches/Second or Less
- Protective Coating on All Internal Machined Surfaces
- IP54 or IP55 Protection
- Breather Drains

### Insulation System



- System's Major Components Made from Class H Materials
- Low Loss Electrical Steel with 1000°F Burnout Capability
- System Exceeds NEMA MG1 Part 31
- Voltage Withstand Capability of 2000 V in 0.1 μs
- Large Thermal Margin for Extended Life & Reliability
- Phase Paper & Coil Bracing on Both Ends on All Ratings
- Heavy-Build Class H Varnish with Additional Insulation Barrier

### 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

### Bearing System

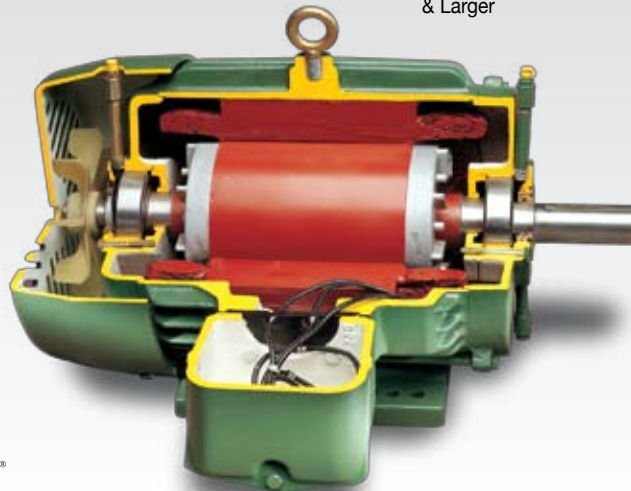


- Oversized 300 Series Bearings on All Frames
- Low Temperature Rise for Extended Life
- L-10 Bearing Life of 150,000 Hours Direct Coupled
- L-10 Bearing Life of 50,000 Hours Belted
- Labyrinth Seal 320 Frame & Larger, Both Ends
- Open Re-Greaseable Bearings 280 Frame & Larger

### Conduit Box



- Gasketed Cast Iron
- UL Ground Lug
- Lead Separation Protection
- Terminal Lugs on Frame 210 & Larger



### Testing

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



**MOTORS    ADJUSTABLE SPEED DRIVES    CONTROLS    UPS    INSTRUMENTATION    PLC**

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