

EQPIII-840TM

XT

**Mill &
Chemical
Duty**

Reliability in motion[®]

- NEMA Premium[®] Efficiency (DOE # CC027A) **NEMA Premium[®]**
- Inverter Duty
- 20:1 Constant Torque (1 to 200 HP, 1800 & 1200 RPM)
- IP54 or IP55 Protection
- Inpro/Seal[®] on DE & ODE (320 Frame and Larger)
- Test Report with Every Motor

**Three Year
Warranty**

| PRODUCT SCOPE | |
|------------------------|---|
| Horsepower | 1 to 500 HP |
| Speed | 3600, 1800, 1200, or 900 RPM |
| Voltage | 460 or 575 V |
| Enclosure | Totally-Enclosed Fan Cooled |
| Frames | 143T through 5810U |
| Insulation | Class-F, Meeting NEMA MG1 Part 31 (Inverter Duty) |
| Vibration (Unfiltered) | Typically 0.06 Inches/Second or Less |

DESIGNED FOR CHEMICAL DUTY APPLICATIONS

EQP III
840
EXTREME MOTOR PRODUCTS

Toshiba's EQP III-840 addresses the special requirements of the mill and chemical industries where motor performance and reliability are imperative. Motor performance is unmatched offering 20 to 1 constant torque, oversized bearings, IP54 or IP55 protection, Class-F insulation system and NEMA Premium® design. The EQP III-840™ is the clear choice for your toughest environments and applications.

Construction



- Cast Iron Frame and Bearing Brackets
- Shaft/Slinger Bearing Protection 140 to 280 Frame
- Multi-Mount Construction
- Gasket Provided Between Motor Frame and 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 Meeting NEMA MG1 Part 31
- Voltage Withstand Capability of 2000 V in 0.1 μs
- Large Thermal Margin for Extended Life and Reliability
- Phase Paper and 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

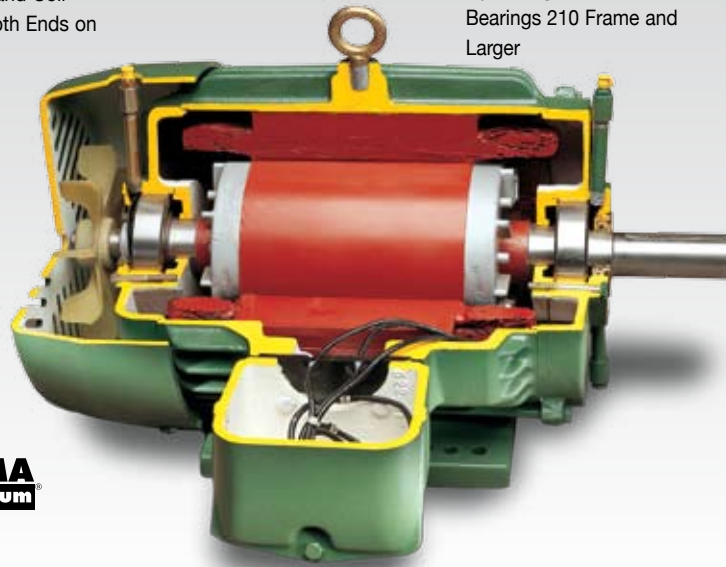


- Re-Greaseable Oversized 300 Series Bearings, on All Frames
- Low Temperature Rise for Extended Life
- L-10 Bearing Life of 150,000 Hours Direct Coupled
- L-10 Bearing Life of 50,000 Hours Belted
- Inpro/Seal® 320 Frame and Larger, Both Ends
- Open Regreaseable Bearings 210 Frame and Larger

Conduit Box



- Gasketed Cast Iron
- UL Ground Lug
- Lead Separation Protection
- Terminal Lugs on Frames 210 and Larger



Testing

- 100% No-Load Commercial Test on all Motors
- On 440 Frame and 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

TOSHIBA

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