

EQPIII-841™

XT

**Petro-
Chemical
Duty**

Reliability *in motion*®

- NEMA Premium® Efficiency (DOE # CC027A)
- Inverter Duty
- 20:1 Constant Torque (1 to 200 HP, 1800 & 1200 RPM)
- IP55 Protection
- Inpro/Seal® on DE and ODE (All Motors)
- Test Report with Motor



**Five Year
Warranty**

PRODUCT SCOPE	
Horsepower	1 to 300 HP
Speed	3600, 1800, 1200, or 900 RPM
Voltage	460 or 575 V
Enclosure	Totally-Enclosed Fan Cooled
Frames	143T through N449T
Insulation	Class-F, Meeting NEMA MG1 Part 31 (Inverter Duty)
Vibration (Unfiltered)	Typically 0.04 Inches/Second or Less

DESIGNED FOR THE PETRO-CHEM MARKET

EQPIII 841 EXTREME MOTOR PRODUCTS

Toshiba's EQPIII-841 motors are designed for the harshest environments where premium performance and reliability are a must. These motors are built to meet or exceed IEEE standard 841-2001 specifications and are designed to meet NEMA Premium® efficiency levels. In addition, the EQPIII-841 is provided with CSA approval and UL component recognition.

Construction



- Cast Iron Frame and Bearing Brackets
- Multi-Mount Construction
- Gasket Provided Between Motor Frame and Conduit Box
- Typical Unfiltered Vibration Levels of 0.04 Inches/Second or Less
- Protective Coating on All Internal Machined Surfaces
- 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 Inches/Second
- Large Thermal Margins 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
- 150°C Rated Lead Cable

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
- Compliance with IEEE 841 Standards

Bearing System

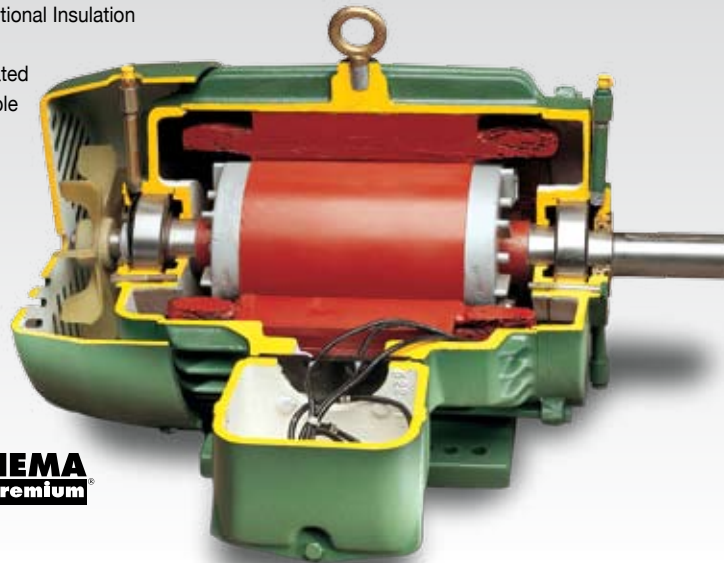


- Re-Greaseable Oversized 300 Series Bearings on All Frames and Both Ends
- Low Temperature Rise for Extended Life
- L-10 Bearing Life of 150,000 Hours Direct Coupled
- L-10 Bearing life of 50,000 Hours Belted
- Inpro/Seal® on All Frames, Both Ends
- Open Regreaseable Bearings, All Frames

Conduit Box



- Gasketed Cast Iron
- UL Ground Lug
- Lead Separation Protection
- Protective Internal Coating
- 12-Inch Minimum Lead Lengths
- Terminal Lugs on All Frame Sizes



Testing

- 100% No-Load Commercial Test on All Motors
- Vibration Test on All Motors
- 100% Inspection of Foot-Flatness and Shaft Runout on All Motors
- On 440 Frame & Larger, 100% of Bearings are Ball-Pass Frequency Tested
- Commercial and Vibration Test Report Supplied with Motor



MOTORS ADJUSTABLE SPEED DRIVES CONTROLS UPS INSTRUMENTATION PLC

TOSHIBA

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