LOW VOLTAGE MOTORS



$\mathbf{EQPIII}^{\mathsf{TM}}$

Reliability in motion®

- NEMA Premium® Efficiency
 Premium®
- Inverter Duty
- 20:1 Constant Torque on TEFC Only (1 to 200 HP, 1800 & 1200 RPM)
- Design C Torque Capability
- Low Temperature Rise



PRODUCT SCOPE	
Horsepower	3/4 to 700 HP
Speed	3600, 1800, 1200, or 900 RPM
Voltage	230/460, 460, or 575 V
Enclosure	Totally Enclosed Fan Cooled & Open Drip Proof
Frame Size	143T through 5810U
Construction	Cast Iron
Insulation	Class F, Exceeds NEMA MG1 Part 31 (Inverter Duty)
Vibration (Unfiltered)	Typically 0.08 Inches/Second or Less

BUILT FOR SEVERE DUTY APPLICATIONS



Toshiba's EQPIII NEMA Premium motor series is the cornerstone of the Toshiba product offering. This product is built to withstand the most extreme conditions and designed to meet the industry's ever-increasing need for improved energy conservation and product reliability in both indoor and outdoor applications. This motor meets the NEMA energy efficiency requirements as listed in NEMA MG1 Table 12-12 and offers some of the highest efficiency and torque ratings while producing some of the lowest vibration ratings in the industry -- leading to a longer life and greater reliability.

Construction



- Cast Iron Frame & Bearing Brackets
- Shaft/Slinger Protection on All **TEFC Motors**
- Multi-Mount Construction
- Gasket Provided Between Motor Frame & Conduit Box
- Typical Unfiltered Vibration Levels of 0.08 Inches/Second or Less
- IP54 Protection on All TEFC Motors with Cast Iron Conduit Box Added

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 Margins for Extended Life & Reliability
- Bracing on Both Ends on All Ratings

Nameplate



- Stainless Steel
- NEMA Premium[®] Design
- · Raised Letters for Clarity
- Inverter Ready Rating on Nameplate, TEFC Only (1 to 200 HP, 4 & 6-Pole)

Bearing System



- Oversized 300 Series Load-Side Bearings on 210 Frames & Larger
- 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

Conduit Box



- Provision for Grounding
- Terminal Lugs on 280 Frame & Larger

Testing

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



MOTORS

ADJUSTABLE SPEED DRIVES

CONTROLS

UPS

INSTRUMENTATION

PLC

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Available Through:

TOSHIBA INTERNATIONAL CORPORATION INDUSTRIAL DIVISION

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