

# TOSHIBA

Leading Innovation >>>



**3** THREE YEAR WARRANTY

## EQPIII

EXTREME MOTOR PRODUCTS

**Toshiba's EQPIII® Premium motor is the cornerstone of the heavy duty product offering.**

This open drip-proof series is built to withstand tough general conditions and designed to meet the industry's ever-increasing need for improved energy conservation and product reliability in indoor 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.

- NEMA Premium® Efficiency (1 through 500 HP)
- Inverter Duty-Rated
- Addresses Global Motor Specifications Including CE, NEMA, & IEC
- Low Temperature Rise
- Multi-Mount on 140 through 250 Frames

Horsepower	¼ to 700 HP
Speed (60 Hz)	3600, 1800, 1200, or 900 RPM
Voltage (60 Hz)	230/460, 460, or 575 V
Enclosure	Open Drip Proof
Frame Size	143T through 509U
Protection	IP22
Construction	Cast Iron Frame & Brackets
Insulation	Class F, Exceeds NEMA MG1 Part 31 (Inverter Duty)
Vibration	Typically 0.08 Inches/Second or Less (Unfiltered)
Environment	Heavy Duty



# EQPIII® ODP

LOW VOLTAGE MOTOR  
HEAVY DUTY





# BUILT FOR HEAVY DUTY APPLICATIONS



## Nameplate

- 304 Stainless Steel
- Connection Diagram Included
- Etched Lettering



## Construction

- ASTM Grade 25 Cast Iron Frame & Bearing Brackets
- Gasket Provided Between Motor Frame & Conduit Box
- Typical Unfiltered Vibration Levels of 0.08 Inches/Second or Less



## Conduit Box

- Grounding Provisions
- Terminal Lugs on 280 Frame & Above
- Steel Construction
- Rotatable (90°C)



## Bearing System

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



## Insulation System

- System's Major Components Made from Class H Materials
- Low Loss Electrical Steel with 1000°F Burnout Capability
- Exceeds NEMA MG1 Part 31 Requirements (Inverter Duty)
- Voltage Withstand Capability of 2000 V in 0.1 μs
- Large Thermal Margins for Extended Life & Reliability
- Phase Paper & Coil Bracing on Both Ends for All Ratings



## Testing

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

