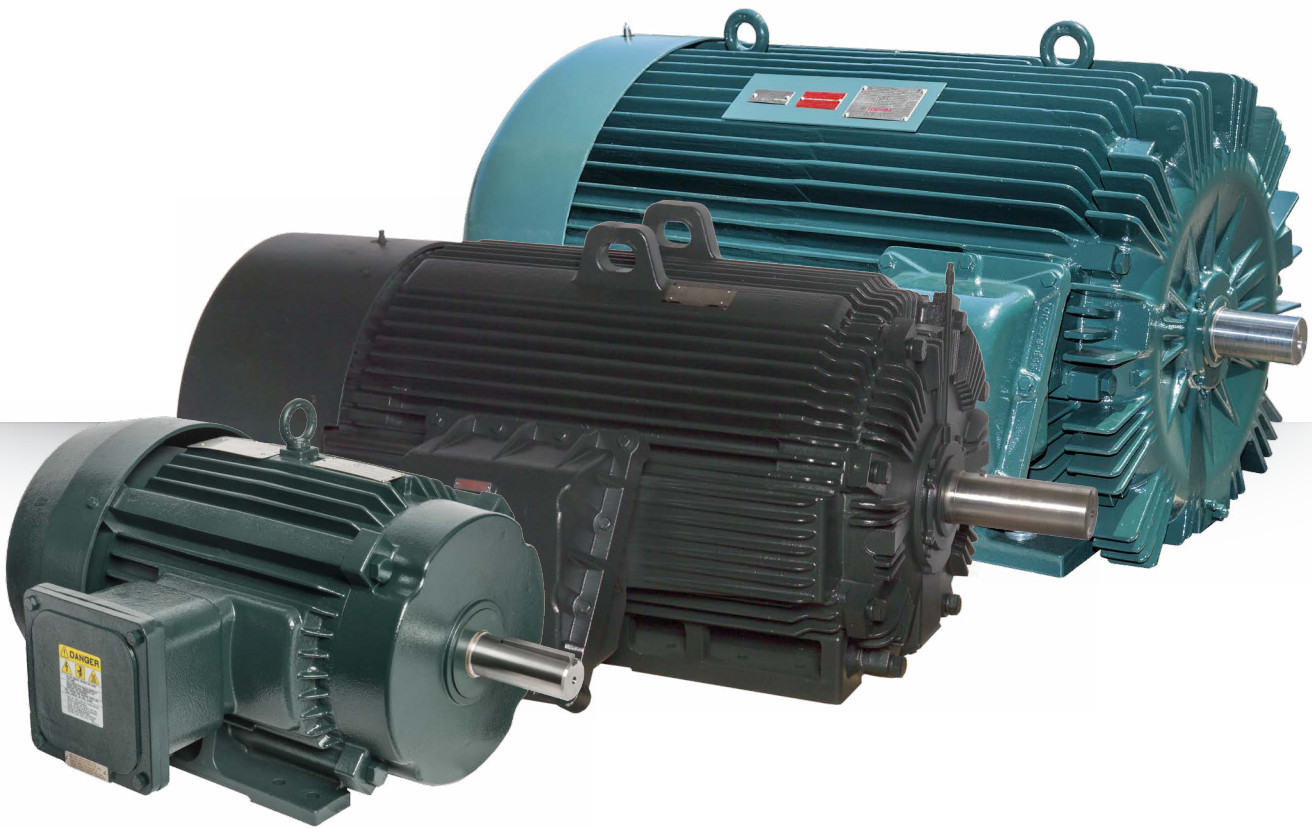


# TOSHIBA

Leading Innovation >>>



TEVP  
LOW & MEDIUM VOLTAGE MOTOR SERIES



## NEXT-GENERATION NEMA PREMIUM® EFFICIENCY MOTOR SERIES



Toshiba offers severe duty, totally enclosed explosion proof (TEXP) motors in low and medium voltage options available in 1 – 1,000 horsepower (HP) and designed to meet UL- and CSA-listed hazardous materials locations requirements.

The TEXP low and medium voltage motor series is ideal for indoor and outdoor use and offers the performance and reliability the motor industry has come to expect from Toshiba. The fan-cooled motors are equipped to contain an explosion that may occur inside the motor, which prevents explosion of gases and vapors released into the environment. The robust cast iron construction meets IP55 and IP56 protection standards and is built for the petrochemical, mining and mineral, pharmaceutical, and agricultural industries.

Features of the TEXP motor series include Class F insulation, fabricated diecast aluminum or copper bar rotors, and an operating temperature code of T3-T3C. Motor bearings are heat stabilized and oversized antifriction bearings for longer life, with sleeve bearings as an available option. Nameplates are stainless steel 304 and engraved with a separate UL identification tag.

**Roller Bearing is available on frames 440 and above**

- ▶ **VFD-Turndown Capabilities:**
  - Frames 143T through 326T 20:1CT, 60:1VT, 1:1.5CHP
  - Frames 360 through N449 10:1CT, 60:1VT, 1:1.5CHP



Horsepower	1 to 1000 HP
Speed (60 Hz)	3600, 1800, 1200, 900 or 720 RPM
Voltage (60 Hz)	230/460, 460, or 575 V 2300 through 6900 V for MV
Enclosure	Totally Enclosed Fan Cooled
Frame Size	143T through 6811
Protection	IP55 and IP56
Construction	All Cast Iron
Insulation	Class F
Vibration (Unfiltered)	Typically 0.08 Inches/Second or Less
Environment	Severe Duty, Suitable for Use in Division 1 Hazardous Locations

\* Contact Toshiba for 50 Hz Ratings and Designs

## > NAMEPLATE

- Stainless Steel
- Connection Diagram Included



## > CONSTRUCTION

- Cast Iron Frame & Bearing Brackets
- Stainless Steel Drain & Breather Plugs
- Multi-Mount on 140 through 445 & N449 Frames
- Corrosion-Resistant ASTM Grade 5 Hardware
- IP55 and IP56 Protection
- Typical Unfiltered Vibration Levels of 0.08 Inches/Second or Less



## > CONDUIT BOX

- Cast Iron Construction
- UL Ground Lug
- Compression-Type Terminal Lugs on 280 Frame & Larger
- Rotatable (90°)
- Potted Leads with Chico® Sealing Compound



## > BEARING SYSTEM

- Oversized 300 Series Bearings on 143-449 Frames (DE & ODE)
- Regreasable 280 Frame & Larger
- Non-Sparking Brass V-Ring Slings
- Locked Drive-End Bearing 210 through 449 Frames
- Ball Bearing 143T Through 405T Frames
- Roller Bearing on 444T through 449 Frames (4- & 6-Pole)
- Ball Bearing Standard on 500 Frame & Larger, Roller Bearing Available (4- & 6- Pole)



## > INSULATION SYSTEM

- Class F Insulation
- Normally-Closed Winding Thermostats
- T3C (160°C) Temperature Code Rating for 143 through 449 Frames (Contact Toshiba for Other T-Code Ratings)
- Suitable for ASD Operation (Low Voltage Frames 140 Through 449T)



## > TESTING

- 100% No-Load Commercial Test per IEEE 112 on All Motors
- On 440 Frame & Larger:
  - » Commercial Test & Vibration Test



**TOSHIBA MOTORS & DRIVES DIVISION**

- Adjustable Speed Drives
- Motors
- Motor Controls



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