

TOSHIBA

Leading Innovation >>>



3 THREE YEAR WARRANTY

Toshiba is proud to introduce the new Cooling Tower motor to its ever-expanding product offering.

Based on the success of the EQP Global® SD motor, the Cooling Tower motor features multiple enhancements specifically designed for cooling tower applications in wet and humid environments. Built with an IP56-rated enclosure and coated with corrosion-resistant Severe Duty epoxy paint system, the motor can withstand the most severe operating conditions with 100% humidity. The Cooling Tower motor is available in TEFC and TEAO designs for all operating conditions.

- API 661 Compliant
- NEMA Premium® Efficiency
- Inverter Duty Rated per NEMA MG1 Part 31
- Dual-Frequency 50/60 Hz Design (50/60 Hz Listed on Nameplate)
- Horizontal or Vertical Mounting
- Multiple Drain Plugs for all Mounting Positions
- Available Options:
 - » Space Heater
 - » Auxiliary Terminal Box
 - » Drip Cover
 - » Thermal Protection Devices (Thermostat & Thermistor)
 - » F2 Mount
 - » Rotate Main Terminal Box
 - » Shaft Grounding (Not Applicable for Div 2 Locations)
 - » Grease Fittings on 284T Frame & Larger

Horsepower	3/4 to 75 HP
Speed (60 Hz) (50 Hz)*	1800 or 1200 RPM 1500 or 1000 RPM
Voltage (60 Hz) (50 Hz)*	230/460 or 575 V 190/380 V
Enclosure	Totally Enclosed Fan Cooled or Totally Enclosed Air Over
Frame Size	143T through 365T
Protection	IP56 (100% Humidity-Protected)
Construction	Cast Iron Frame, Brackets & Terminal Box
Insulation	Class F, Exceeds NEMA MG1 Part 31 (Inverter Duty)
Vibration	Typically 0.08 Inches/Second or Less (Unfiltered)
Environment	Severe Duty, Suitable for Use in Division 2 Hazardous Locations

**50/60 Hz Listed on Nameplate for 230/460 designs
Larger Frames Available Upon Request*

Contact Toshiba for Other Voltage Options



COOLING TOWER

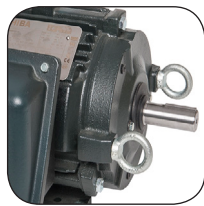
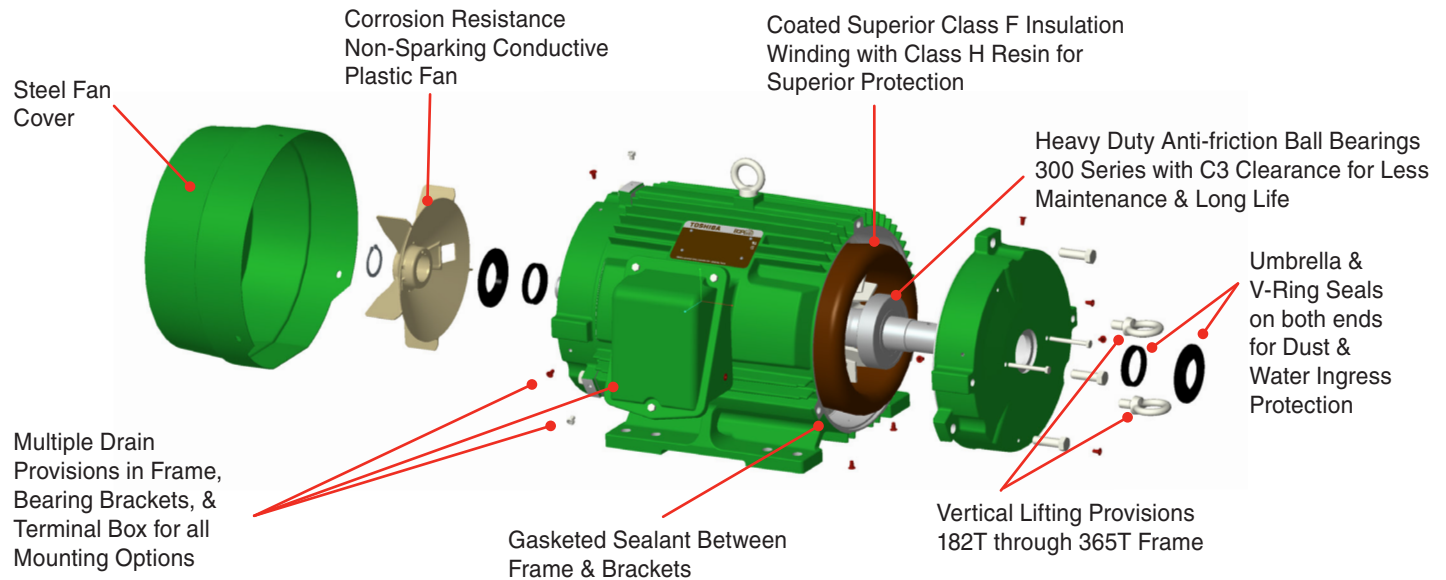
LOW VOLTAGE MOTOR
COOLING TOWER DUTY



COOLING TOWER



BUILT FOR COOLING TOWER APPLICATIONS



Construction

- Cast Iron Frame, Bearing Brackets, & Conduit Box
- Multi-Mount on 143T through 365T Frames
- Corrosion-Resistant Severe Duty Epoxy Paint System
- Painted Internal Machined Surfaces
- IP56 Protection Provides 100% Humidity Protection
- Locked Drive-End Bearing 213T through 365T Frame
- Sealed Bearing System 143T through 256T Frame
- Shielded Bearings with Re-Grease Option for 284T through 365T
- Corrosion Resistant Zinc Dichromate Plated Hardware
- Oversized 300 Series Bearings Designed for L10 Life of 40,000 hrs. for Belted Application and 150,000 hrs. for Direct Coupled Applications



Conduit Box

- Cast Iron Conduit Box
- Grounding Lug
- Terminal Lugs on All Frame Sizes (Compression Type Single-Ring)
- Rotatable (90°)
- NPT Drill & Tap Conduit Opening
- Lead Seal Gasket
- Multiple Drain Provisions for All Mounting Positions
- Neoprene Gasket between Conduit Box Halves
- Symmetrical Design Allows F2 Field Modification



Insulation System

- Low-Loss Electrical Steel
- Exceeds NEMA MG1 Part 31
- 10:1 Constant Torque & 60:1 Variable Torque (Division 2 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 on All Motor Ratings
- Additional Moisture Protective Coating on Windings and Stator Assembly
- Class B (90°C) Temperature Rise (By Resistance) at 1.15 SF
- Class F System with Class H Components & Resin



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