

# TOSHIBA

Leading Innovation >>>



**Toshiba's Brake Motor series is designed to meet the needs of general holding applications.**

This totally enclosed fan cooled product line is built to withstand the toughest conditions from conveyors, windmills, airports, machine tools, and other applications requiring quick stops and positive holds. Toshiba's Brake Motor offers some of the highest torque ratings while producing some of the lowest vibration ratings in the industry—leading to a longer life and greater reliability. Toshiba's Brake Motor is suitable for indoor or outdoor use.

Horsepower	1/2 to 30 HP
Speed (60 Hz)	1800, 1200, or 900 RPM
Voltage (60 Hz)	230/460, 460, or 575 V
Enclosure	Totally Enclosed Fan Cooled
Frame Size	143T through 286T
Protection	IP23 (SD), IP54 (840)
Construction	Cast Iron
Vibration	Typically 0.10 Inches/Second or Less (Unfiltered)
Insulation	Class F, Exceeds NEMA MG1 Part 31 (Inverter Duty)
Mounting	Vertical on 140 & 180 Frames (210 & Larger Available)

- NEMA Premium® Efficiency
- Inverter-Duty Rated
- Cast Iron Construction
- Suitable for Horizontal & Vertical Applications
- Various Brake Options Available



# BRAKE MOTOR

LOW VOLTAGE MOTOR  
HOLDING DUTY





## BUILT FOR GENERAL HOLDING APPLICATIONS



### Nameplate

- Stainless Steel
- NEMA Premium® Design
- Etched Lettering



### Construction

- Cast Iron Frame & Fan Cover
- C-Face Footed & Footless Stock Designs Available
- Shaft Slinger Protection
- Gasket Provided Between Motor Frame & Conduit Box
- Typical Unfiltered Vibration Levels of 0.10 Inches/Second or Less
- IP23 (SD) or IP54 (840) Protection
- Brake Enclosures: NEMA 2 Steel (SD) or NEMA 4 Cast Iron (840)
- Multiple Drain Provisions for Horizontal & Vertical Mounting



### Conduit Box

- Gasketed Cast Iron Construction
- Provision for Grounding
- Terminal Lugs on 280 Frame
- Rotatable (90°C)



### Bearing System

- Regreaseable 280 Frame
- Locked Drive-End Bearing 210 Frame & Larger
- Low Temperature-Rise for Extended Life
- L-10 Life of 150,000 Hours for Direct-Coupled Applications
- L-10 Life of 40,000 Hours for Belted Applications



### Insulation System

- Major Components Made from Class H Rated Materials
- Low-Loss Electrical Steel
- Class F, Exceeds NEMA MG1 Part 31
- 20:1 Constant Torque & 60:1 Variable Torque
- Voltage Withstand Capability of 2000 V in 0.1  $\mu$ s
- Large Thermal Margins for Extended Life & Reliability
- Phase Paper & Coil Bracing on Both Ends on All Motor Ratings



### Testing

- 100% No-Load Commercial Test per IEEE 112 on All Motors

