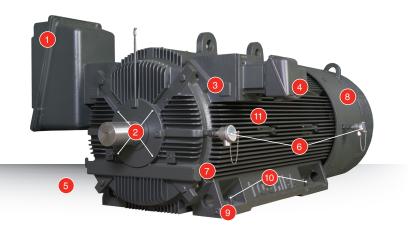
TOSHIBA

Leading Innovation >>>



| | Oversized Cast Iron Top-Mount T-Box Capability with 90-Step Rotational & Field- |
|--|---|
| | Replaceable F1 & F2 Positioning |

- Four-Position Air Gap Inspection Holes
- 3. Vibration Provision Mounting Pads
- 4. Boxes (Space Heater & Multi-Functional All Cast Iron Auxiliary Terminal Box)
- 5. Sufficient Clearance Between Box & Floor for Easy Connection
- 6. Bearing RTD Provisions Oversized, Same Diameter Bearings on Both Ends for Extended Life
- 7. Cartridge-Type Field-Replaceable Grease Outlet
- Side-Ventilated Heavy Duty Cast Iron or Fabricated Steel Fan Covers to Allow for Installation in Limited Spaces
- g. Ground Terminals on All Four Corners of Frame with Vertical Jacking Screws & Four-Position Dowel Holes for Easy Alignment
- 0. Multi-Mount Capability for Replacement 5009, 5010, 5011, 5809, 5810, 5811 with Same BA
- Available Copper Bar Design with API Style End Ring to Eliminate Need for Trim Balancing



The Dura-Bull TX® offers what our customers care about most–superior performance, tri-mount capability, low maintenance, short delivery times, and competitive pricing. Its low temperature, low vibration design, advanced insulation system for drive applications, API 541 and API 547 4th Edition capabilities, along with its other standard features, provide additional value that our customers have come to expect from Toshiba.

Whether our customers need copper or die-cast aluminum rotors, or anti-friction or sleeve bearings, the Dura-Bull TX is the ideal solution.

> ONE CALL. ONE SOLUTION.

Toshiba International Corporation is proud to be a single-source solution for our customers, offering a complete lineup of electric motors, adjustable speed drives, and motor controls for a variety of applications. Most products are completely designed, engineered, and manufactured at our one million square foot manufacturing facility located in Houston, Texas. This gives us the flexibility to customize our motors to perform beyond a wide variety of industrial and application requirements. We also have the capability to test our products together, as a complete system, before it goes out into the field—ensuring the highest level of quality, performance, and reliability.



> RUGGED CONSTRUCTION FOR ULTIMATE DURABILITY

- ► HORSEPOWER: 100 to 800 HP
- **SPEED (60 Hz):** 3600, 1800, 1200, or 900 RPM
- ▶ **VOLTAGE (60 Hz):** 2300, 4000, or 6600 V
- ► ENCLOSURE: Totally Enclosed Fan Cooled
- FRAME SIZE: 5011/5811 Multi-Mount

- **PROTECTION:** IP44 or IP55
- **CONSTRUCTION:** Cast Iron Fin-Type
- ▶ INSULATION: Class F, Meets NEMA MG1 Part 31 (Inverter Duty)
- MOUNTING: Horizontal Foot Mounting
- ► ENVIRONMENT: Indoor & Outdoor Use







OUR TOUGHEST MEDIUM VOLTAGE MOTOR

| Frame Size | 5011/5811 Multi-Mount | 5011/5811 Multi-Mount; Direct Coupled & Belt Drive (4-Pole & Greater) | | | |
|---|--|--|--------------|--------------|--|
| Pole Speed | 2-, 4-, 6-, & 8-Pole | 2-, 4-, 6-, & 8-Pole | | | |
| Target Output | 2-Pole | 4-Pole | 6-Pole | 8-Pole | |
| 5009/10/11 TEFC | Up to 450 HP | Up to 500 HP | Up to 450 HP | Up to 250 HP | |
| 5809/10/11 TEFC | Up to 600 HP | Up to 800 HP | Up to 700 HP | Up to 500 HP | |
| Voltage | 2300, 4000, or 6600 V | 2300, 4000, or 6600 V (Dual-Voltage Option Available) | | | |
| Frequency | 50 or 60 Hz | | | | |
| Insulation | Class F, Meets NEMA | Class F, Meets NEMA MG1 Part 31 (Inverter Duty) | | | |
| Service Factor | 1.15 | 1.15 | | | |
| Time Rating | Continuous | Continuous | | | |
| Applicable Standards | NEMA MG1; API 541, | NEMA MG1; API 541, API 547, IEEE 840 (As Requested); CSA Construction | | | |
| OPERATING CONDITIONS | | | | | |
| Ambient Temperature | -20° to 40°C | | | | |
| Humidity | <100% | <100% | | | |
| Altitude | <3300 Feet (1000 Met | <3300 Feet (1000 Meters); Consult Factory for Higher Altitude Applications | | | |
| Enclosure | Totally Enclosed Fan Cooled, Cast Iron Fin-Type | | | | |
| Starting Method | Direct On-Line, per NEMA | | | | |
| Starting Duty | (1) Hot or (2) Cold, per | (1) Hot or (2) Cold, per NEMA MG1 | | | |
| Allowable Load Wk ² | Per NEMA MG1; 1/2 W | Per NEMA MG1; 1/2 Wk² for 2-Pole | | | |
| Area Classification Class I, Division 2, Group C & D (T3 Temperature Code); Class II, Division 2, Group C & D (T3 Temperature Code) | | | | | |
| BEARING DETAILS | | | | | |
| Туре | Anti-Friction Bearing as Standard; Sleeve Bearing Option Available | | | | |
| Lubrication Type | Grease Lubrication - C | Grease Lubrication - Chevron SRI or Equivalent; Oil Lubricant - ISO VG32 | | | |
| Temperature | emperature 55°C Rise Maximum at 1.15 Service Factor by RTD; 53°C Rise Maximum at 1.15 Service Factor When Sleeve Bearing is Specific | | | | |
| Insulation | OS Insulation Bearing | OS Insulation Bearing | | | |
| CONSTRUCTION DETA | AILS | | | | |
| Mounting | Horizontal Foot Mount | Horizontal Foot Mounting | | | |
| Direction of Rotation | Bi-Directional (2-Pole l | Bi-Directional (2-Pole Uni-Directional) | | | |
| T-Box Location | DE Side as Standard; | DE Side as Standard; Cast Iron F1 | | | |
| Number of Leads | mber of Leads Three or Six | | | | |
| Shaft Material Hot-Rolled 1045 or 4142 | | | | | |
| Core Plate C5 | | | | | |
| Frame/Brackets Cast Iron | | | | | |
| Rotor Cage Aluminum Die Cast as Standard; Copper Bar Option Available | | | | | |
| Construction | Non-Sparking | Non-Sparking | | | |

APPLICABLE APPLICATIONS:

- Compressors
- Pumps

- Fans
- Conveyors

APPLICABLE INDUSTRIES:

- Oil & Gas
- Mining & Minerals
- Pulp & Paper













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