

TOSHIBA

Medium Voltage Motors



XT

DURA  BULL TX



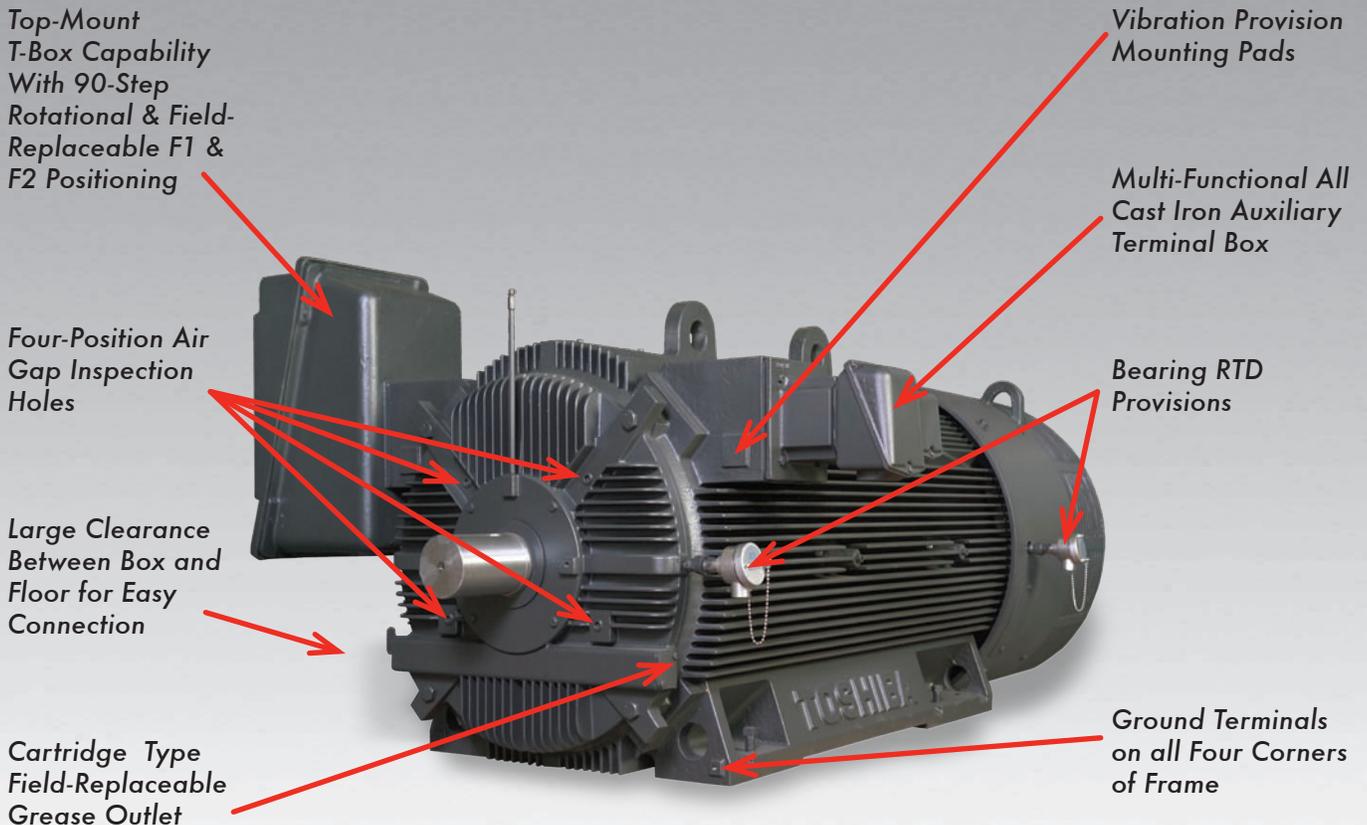
Toshiba — Leading Innovation in Medium Voltage Motors

Toshiba's new medium voltage totally-enclosed fan-cooled motor series, the Dura-Bull TX, is designed and made in Texas and offers a multitude of features and options allowing you to customize the motor to your needs. Its rugged, total cast iron construction, high torque, high efficiency, and unique multi-mount capability make the Dura-Bull the perfect choice for tough applications where reliability and durability are essential for minimizing down time and maximizing production.

Whether your need includes copper or die-cast aluminum rotors, anti-friction, or sleeve bearings, the Dura-Bull TX can provide the solution.

Toshiba Value

Toshiba focuses on providing motor solutions that not only meet but exceed customer expectations. The Dura-Bull provides what customers care about most — superior performance, triple-rated capacity, low maintenance, short delivery times, and competitive pricing.



We Don't Just Design Motors, We Design Solutions

Standard Features

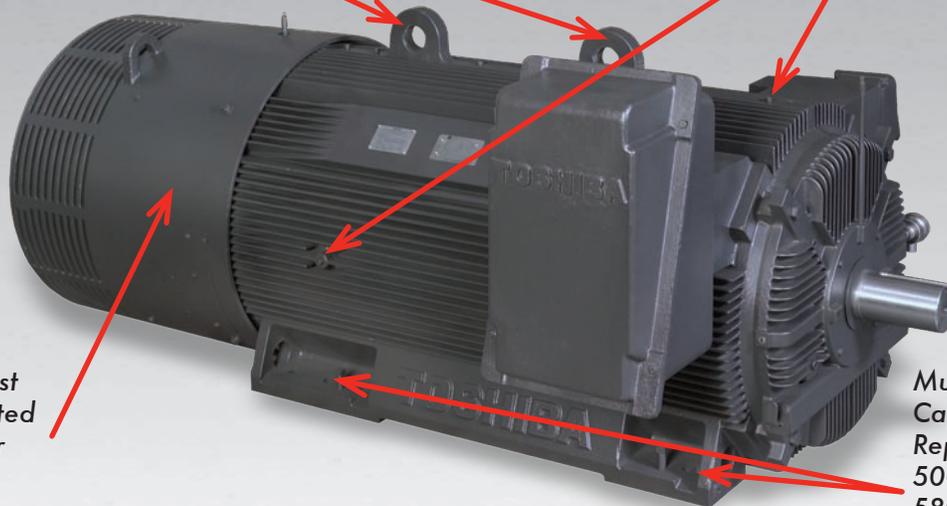
- 5009, 5010, 5011 Multi-Mount for Easy Replacement of Existing 5000 Frame Motors
- 5809, 5810, 5811 Multi-Mount for Easy Replacement of Existing 5800 Frame Motors
- Side-Ventilated Cast Iron Fan Covers to Allow Installation in Tight Spots Where Traditional End-Ventilation May Restrict Cooling
- Low Temperature, Low Vibration Design
- Oversized Cast Iron Main Terminal Box with F1, F2, or Top-Mount Capability
- Multi-Functional Cast Iron Auxiliary Terminal Box Configuration
- Provision for Vibration Pads and Four-Position Air Gap Measurement Holes as Standard
- Advanced Insulation System for VFD Applications
- API 541 4th Edition Capability (Optional)
- Oversized, Same Diameter Bearings on Both Ends for Extended Life
- Vertical Jacking Screws and Four-Position Dowel Holes for Easy Alignment

*Cast Lifting Eyes
on Frame and Fan
Cover Ensure No
Loose Eye Bolts
and No Water
Gets in Threads*

*Bolt Provision for
Motor Covers or
Large Terminal Box*

*Heavy Duty Cast
Iron or Fabricated
Steel Fan Cover*

*Multi-Mount
Capability for
Replacement -
5009, 5010, 5011,
5809, 5810, 5811
with Same BA*



Ultimate Reliability

Toshiba engineers are dedicated to designing the right product for your application requirements. Our experience combined with innovative technology, superior quality, and reliability allows us to customize our motors to fit your need. The Dura-Bull TX is no exception. With its range of features, options, and array of services, it is suitable for virtually every market and industrial application.

Typical Markets

- Oil and Petro-Chemical
- Mining and Aggregate
- Pipeline
- Pulp and Paper

Typical Applications

- Compressors
- Pumps
- Fans
- Conveyors



DE and NDE Bearings are Same Diameter for Long Life

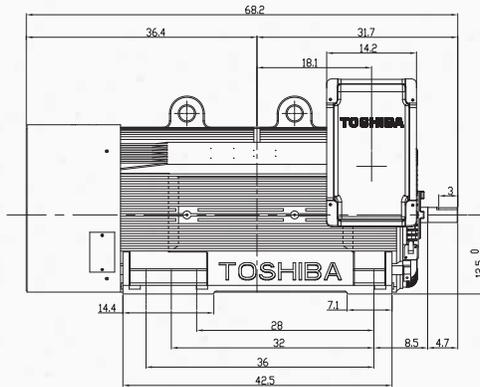


Side-Entry Air Intake Fan Cover for Easy Installation and Low Noise

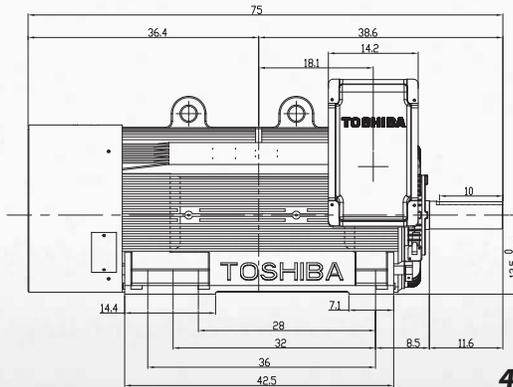
Vertical Jacking Screws and Provision for Dowel Pins on all Four Positions of Mounting Feet

Meets or Exceeds Your Specifications

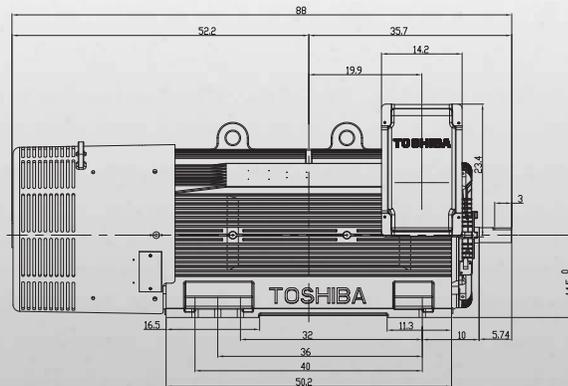
PRODUCT SCOPE				
Frame Size	5010/5810 Multi-Mount; Direct Coupled and Belt Drive (4-Pole and Greater)			
Pole Speed	2, 4, 6, and 8-Pole			
Target Output	2-Pole	4-Pole	6-Pole	8-Pole
5009/10/11 TEFC	Up to 450 HP	Up to 500 HP	Up to 450 HP	Up to 250 HP
5809/10/11 TEFC	Up to 600 HP	Up to 800 HP	Up to 700 HP	Up to 500 HP
Voltage	2300 V or 4000 V (Optional Dual-Voltage Available)			
Frequency	60 Hz			
Insulation	Class F			
Service Factor	1.15			
Time Rating	Continuous			
Applicable Standards	NEMA MG-1, API 541 (As Requested), CSA (Class I, Division 2), CSA Construction			
OPERATING CONDITIONS				
Ambient	-20° to 40°C			
Humidity	Less than 100%			
Altitude	Less than 3300 ft. (1000 m)			
Enclosure	TEFC, Cast Iron Fin-Type			
Starting Method	Direct On-Line, per NEMA			
Starting Duty	(1) Hot, (2) Cold			
Allowable Wk ²	Per NEMA MG-1; 1/2 Wk ² for 2-Pole			
Area Classification	Class I, Division 2, Group C & D (T3 Temperature Code)			
BEARING DETAILS				
Type	Anti-Friction Bearing as Standard; Sleeve Bearing Available on 2-Pole			
Lubrication	Grease Lubrication; Oil on Sleeve Bearing			
Temperature	55°C Rise Maximum at 1.15 Service Factor by RTD; 53°C Rise Maximum at 1.15 Service Factor When Sleeve Bearing is Specified			
Insulation	OS Insulation Bearing			
Grease	Chevron SRI or Equivalent			
CONSTRUCTION DETAILS				
Mounting	Horizontal Foot Mounting			
Direction of Rotation	CCW from ODE (CW Option)			
T-Box Location	DE Side as Standard; Cast Iron			
Number of Leads	Three			
Shaft Material	Minimum 1045 Hot-Rolled			
Core Plate	C5			
Frame/Brackets	Cast Iron			
Rotor Cage	Aluminum Die Cast			
Construction	Non-Sparking			



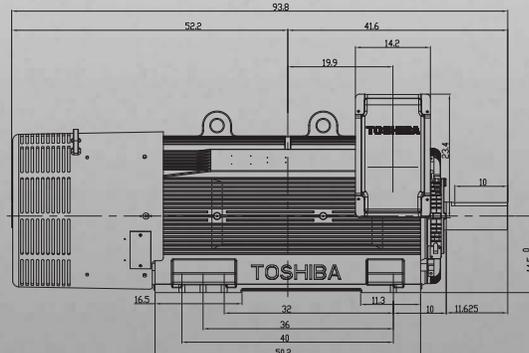
**5011
2-Pole**



**5011
4-Pole, 6-Pole, 8-Pole**



**5811
2-Pole**



**5811
4-Pole, 6-Pole, 8-Pole**

TOSHIBA INTERNATIONAL CORPORATION



North American Headquarters and Manufacturing Facility (Houston, TX)

TOSHIBA – Quality by Design

Toshiba's culture and history are strongly rooted in quality. Our designs are technologically innovative, and our products are manufactured from start to end using only the highest quality domestic and foreign parts.

Product Warranty

Toshiba offers a comprehensive warranty program on its full line of industrial products. Consult your salesperson or the factory for specific information.

Need to Know More?

Be sure to visit our website located at www.toshiba.com/ind for the latest information on Toshiba products and services.

Customer Support Services

Toshiba offers 24-hour service nationwide. For assistance of any type call: 1-800-231-1412.



MOTORS ADJUSTABLE SPEED DRIVES CONTROLS UPS INSTRUMENTATION PLC

TOSHIBA

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