

# TOSHIBA

Leading Innovation >>>



**3** THREE YEAR WARRANTY

Toshiba's Explosion Proof motor series is specifically designed for traditionally hazardous industries where explosive gases and vapors are present.

This totally enclosed explosion proof product line is equipped to contain an explosion that may occur inside the motor, as well as prevent explosive gases and vapors from being released into the environment. Its robust construction meets the requirements for UL- and CSA-Listed Hazardous Locations and offers the highest performance and reliability for indoor and outdoor use.

Built for the petrochemical, mining and mineral, pharmaceutical, and agricultural industries, Toshiba's Explosion Proof motor is the clear choice for your toughest environments and applications.

Horsepower	¼ to 350 HP
Speed (60 Hz)	3600, 1800, 1200, or 900 RPM
Voltage (60 Hz)	230/460, 460, or 575 V
Enclosure	Totally Enclosed Explosion Proof
Frame Size	143T through N449T
Protection	IP55
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

- Premium Efficiency
- Dual Label with 1.15 Service Factor
  - Class I, Division 1, Group D
  - Class II, Division 1, Groups E, F, & G
  - Operating Temperature Code, T3B
- Thermal Protection
- C-Flange Available through 365T Frame



# EXPLOSION PROOF

LOW VOLTAGE MOTOR  
SEVERE DUTY





## BUILT FOR SEVERE DUTY APPLICATIONS



### Nameplate

- Stainless Steel
- Connection Diagram Included
- Etched Lettering



### Construction

- Cast Iron Frame & Bearing Brackets
- Stainless Steel Drain & Breather Plugs
- Corrosion-Resistant ASTM Grade 5 Hardware
- IP55 Protection



### 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 Bearings
- Regreasable 280 Frame & Larger
- Non-Sparking Brass V-Ring Slingers
- Ball Bearing 143T Through 405T Frames
- Roller Bearing on 444T Frame & Larger (4- & 6-Pole)



### Insulation System

- Class F Insulation
- Major Components Made from Class H Rated Materials
- Class B Temperature Rise at 1.15 Service Factor (445T Frame & Below)
- Normally-Closed Winding Thermostat
- T3B (165°C) Temperature Code Rating



### Testing

- 100% No-Load Commercial Test per IEEE 112 on All Motors
- On 440 Frame & Larger:
  - » Commercial Test & Vibration Test
  - » 100% of Bearings are Ball-Pass Frequency Tested

