# TOSHIBA

## Leading Innovation

3 THREE YEAR WARRANTY

**Toshiba's Quarry Duty motor has a proven track record of exceeding the extreme demands of the aggregate & cement and mining & mineral industries.**

The Quarry Duty motor utilizes a totally enclosed fan cooled design and provides exceptional high-starting torque, oversized superior-grade roller bearings, and shafts built with high strength 4142 steel to withstand the harshest environments. The roller bearings on the motor's drive-end allow for heavy radial loads normally associated with belt-driven applications. These key features allow our Quarry Duty motors to provide optimum reliability, performance, and efficiency for the toughest aggregate and mining operations.

- High-Starting Torque
- High Efficiency/NEMA Premium Efficiency Designs
- Cast Iron Construction
- 4142 Shaft Steel
- Bearing Lock Nuts for Vertical Mounting

| | |
|---|---|
| Horsepower | 125 to 600 HP |
| Speed (60 Hz) | 1800, 1200, or 900 RPM |
| Voltage (60 Hz) | 460 or 575 V |
| Enclosure | Totally Enclosed Fan Cooled |
| Frame Size | 505U through 5810U |
| Protection | IP55 |
| Construction | Cast Iron (Frame, Bearing Brackets, & Conduit Box) |
| Insulation | Class F, Exceeds NEMA MG1 Part 31 (Inverter Duty) |
| Vibration | Typically 0.10 Inches/Second or Less (Unfiltered) |
| Environment | Severe Duty |

# QUARRY DUTY

LOW VOLTAGE MOTOR
SEVERE DUTY

# QUARRY DUTY

# BUILT FOR MINING OR AGGREGATE APPLICATIONS


## Nameplate

- Stainless Steel
- Etched Lettering
- Four-Rivet Mounting

## Construction

- Cast Iron Frame & Bearing Brackets
- Totally Enclosed Fan Cooled
- 4142 High Strength Shaft Steel
- Corrosion-Resistant Grade-8 Hardware as Standard
- IP55 Protection

## Conduit Box

- Gasketed Cast Iron Construction
- Provision for Grounding
- Lead Seal Protection
- Terminal Lugs
- Rotatable (90°)
- NPT Conduit Opening

## Bearing System

- Oversized DE Roller Bearings
- Bearing Lock Nuts for Vertical Mounting
- DE Ring Shaft Slinger
- Efficient Flow-Through Grease Path for Improved Purging & Circulation

## Insulation System

- Major Components Made from Class H Rated Materials
- Low-Loss Electrical Steel
- Exceeds NEMA MG1 Part 31
- 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

## Testing

- 100% No-Load Commercial Test & Vibration Test on All Motors
- 100% of Bearings are Ball-Pass Frequency Tested
- Commercial Test Report with Vibration Data Supplied with All Motors

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**www.toshiba.com/tic**