

**AFHH, TEFC, NEMA PREMIUM, F3 CONVERTIBLE**  
**200 HP - 1000 HP [EPF]****APPLICATIONS:**

- |                    |               |                                |
|--------------------|---------------|--------------------------------|
| ■ Fans and Blowers | ■ Compressors | ■ Any Severe-Duty/ Petro-Chem/ |
| ■ Pumps            | ■ Mixers      | Pulp & Paper Application       |
| ■ Crushers         | ■ Conveyors   |                                |

**FEATURES:**

- Output Range: 200-1000 HP
- Speed: 3600, 1800, 1200 & 900 RPM
- Enclosure: Totally Enclosed Fan Cooled (IP55)
- Voltage: 460V<sup>1</sup>
- Three Phase, 60 Hz, 1.15 Service Factor (Continuous); 50 Hz, 1.0 Service Factor (Continuous)
- CSA Certified for Class I, Div. 2, Groups A, B, C, D - Temp Code T2D Minimum<sup>6</sup>
- CSA Certified for Class II, Div. 2, Groups F & G - Temp Code T3C Minimum<sup>6</sup>
- Class F Insulation
- Class B Temperature Rise
- NEMA Design B Torques
- Cast Iron Frame, End Brackets & Pressed Steel Fan Cover and Plate Main Conduit Box.
- Oversized Fabricated Steel Main Conduit Box Rotatable in 90 Degree Increments Fully Gasketed with NPT Threaded Entrance - F1 Mounted, Field Convertible to F2 and F3
- Oversized Main Conduit Box Rotatable in 90 Degree Increments
- Designed for 40°C Ambient Temperature<sup>2</sup>
- Designed for 3300 ft. Elevation<sup>3</sup>
- Bi-Directional Rotation; Except 2 Pole are Counter-Clockwise facing the DE
- 1045 Carbon Steel Shaft
- Aluminum Die Cast Squirrel Cage Rotor Construction or Copper Bar Rotor Construction
- Paint System: Phenolic Rust Proof Base Plus Polyurethane Top Coat
- Paint Color: Light Gray - Munsell N5.0
- High Quality Ball (or Roller) Bearings Regreasable with Mobil Polyrex<sup>TM</sup> EM
- Automatic Grease Discharge Fittings
- Metal Flinger on Both Ends
- Cast Iron Inner and Outer Bearing Caps
- Stainless Steel Nameplate
- Dual Column Design Nameplate as Standard (60/50 Hz)
- 6 Leads
- Motors are CSA Approved
- Dual Drilled Feet Available on Most Ratings - Longer Frames (i.e. 5009 Drilled also for 5007)
- Pre-Formed Random Wound, Made of High Pulse Endurance Index Wire, CIV Tested to 2000V/0.1us
- Suitable for Inverter Use per NEMA MG-1 Part 31.4.4.2<sup>(4,5)</sup>
- Inverter Duty Speed Range: 10:1 Variable Torque, 3:1 Constant Torque
- 2-Pole Motors 400 HP and Larger Standard Features: 100 Ohm Platinum Stator RTD's(2/Phase), Space Heaters(120V), and Insulated Non-Drive End Bearings
- Catalog Numbers Ending in "R" Come Standard with Roller Bearings for Belted Applications.
- Spotface ¼ -28UNF Tap x 12mm Deep on Top of Both End Brackets with VB300 Vibration Sensor

**EXTRAS / OPTIONS:**

Please refer to pages 149-154 for common modifications that can be performed.

**Notes:**

1. TWMC carries minimal MAX-E1® 575V stock; please check availability to ensure required motors are available.  
Ratings may be available from our Canadian warehouses at a higher price or from our factory with a longer lead time. Pricing and lead time may vary.
2. Consult a Stock Product Application Specialist for suitability in higher ambient environments.
3. Consult a Stock Product Application Specialist for suitability at higher elevations.
4. Motor service factor is 1.0 when operated on a VFD.
5. Precautions should be taken to eliminate or reduce shaft currents that may be imposed on the motor by the VFD as stated per NEMA MG-1. Part 31.
6. Various temp codes apply to ratings. Consult a stock product specialist for accurate code.