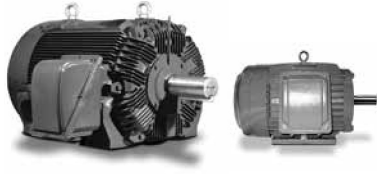


# MAX-HT™ LOW VOLTAGE CRUSHER DUTY



**AEHHGD, NEMA PREMIUM, DESIGN C (20 HP - 200 HP) [CDP]**  
**AAEAGD, HIGH EFFICIENCY, DESIGN C [CD]**

Effective 07-08-18  
Supersedes 03-24-17



## APPLICATIONS:

- Crushers
- Impactors
- Chippers/ Shredders
- Ball Mills/ Rolling Mills
- Any High Torque Application

## FEATURES:

- Output Range: 20 - 600 HP
- Speed: 1800, 1200 & 900 RPM
- Enclosure: Totally Enclosed Fan Cooled (IP55)
- Voltage: 230/460V (Usable on 208V); 150HP and Larger is 460V Only<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 B, C, D - Temp Code T3 Minimum<sup>(6)</sup>
- CSA Certified for Class II, Div. 2, Groups F & G - Temp Code T3 Minimum (Frame 444T and above)<sup>(6)</sup>
- Class F Insulation
- Class B Temperature Rise
- NEMA Design C Torques; Equal or Greater Than 200% Starting Torque / 250% Breakdown Torque
- Cast Iron Frame, End Brackets, Main Conduit Box; Rolled Steel Fan Cover<sup>(7)</sup>
- Grounding Terminal Inside Main Conduit Box<sup>(8)</sup>
- Oversized Main Conduit Box Rotatable in 90 Degree Increments - F1 Mounted
- Designed for 40°C Ambient Temperature<sup>(2)</sup>
- Designed for 3300 ft. Elevation<sup>(3)</sup>
- Bi-Directional Rotation
- High Strength 4140 AISI Steel Shaft
- Aluminum Die Cast Squirrel Cage Rotor Construction
- Paint System: Phenolic Rust Proof Base Plus Polyurethane Top Coat
- Paint Color: Dark Gray - Munsell 7.5 BG 3.5/0.5
- High Quality Ball (or Roller) Bearings Regreasable with Mobil Polyrex™ EM
- Automatic Grease Discharge Fittings
- Gamma (Axial Face) Seal on Both Ends for F# 140T - 400T
- Labyrinth Type Metal Flinger on Both Ends for F# 440T and Larger
- Cast Iron Inner and Outer Bearing Caps for F# 320T and Larger
- Stainless Steel Nameplate
- New Dual Column Design Nameplate as Standard (60/50 Hz)
- Suitable for Inverter Use per NEMA MG-1.4.4.2, Part 31<sup>(4,5)</sup>
- Inverter Duty Speed Range: 20:1 Variable Torque, 10:1 Constant Torque (350 HP and Larger are 3:1 Constant Torque)
- 12 Leads for 125 HP and Smaller
- 6 Leads for 150 HP and Larger
- Standard With Thermistors (PTC 140°C) 1 per Phase
- Locknut and Washer on NDE for Vertical Shaft Down Applications on F# 440 and Larger
- Drain Holes / Plugs on Both End Brackets for Vertical Applications
- Threaded One Way Breather Drains for Horizontal Mount Applications

## EXTRAS/ OPTIONS:

Please refer to pages 147 - 154 for common modifications that can be performed.

## Notes:

- (1) 575V motors available on a made-to order basis. Consult a Stock Product Application Specialist for details.
- (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) **CSA Certification for Hazardous Locations only applies to AEHHGD, NEMA Premium Type.**
- (7) F# 5000 and with Larger with Pressed Steel Plate Main Conduit Box; CDPxxxxRZs have a cast iron box with grade 8 bolts.
- (8) Additional Foot Grounding Provision for F# 440 and Larger.