

MAX-E2/841™ FAMILY NEMA PREMIUM EFFICIENCY

TYPE AEHH8B, AEHH8BCF, AEUH8BDC

ee CCO02A



Effective 05-01-13
Supersedes 08-01-11



APPLICATIONS:

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

FEATURES:

- 1 - 500 hp
- 3600, 1800, 1200 RPM
- Totally Enclosed Fan Cooled (IP55 Rating)
- Meets or Exceeds IEEE 841 Standards - Note (1)
- Meets GM 7E-TA Specifications
- Meets IEEE 45 Marine Duty and ABS "Design Assessment" up to 150 hp
- NEMA Premium Efficient
- Department of Energy Efficiency Certification #CC002A
- 60 Month Warranty from Date of Manufacture
- 3 Phase, 60 Hz, 460V
- 1.15 Service Factor – Continuous
- NEMA Design B Torques as a Minimum
- Class B Temperature Rise, Class F Insulation with Phenolic Alkyd Resin Varnish – 2 Dips and Bakes
- Oversized Main Conduit Box Rotatable in 90 Degree Increments – Fully Gasketed with NPT Threaded Entrance – F1 Mounted. F2 Available – See EXTRAS/ OPTIONS Below
- Designed for 40°C Ambient Temperature or 50°C @ 1.0 S.F. - Note (2)
- Designed for 3300 ft. Elevation - Note (2)
- CSA Certified for Class I, Division II, Groups B, C, D; Temp Code T3C, Non-Sparking, Non-Static Fan
- Bidirectional Rotation
- Cast Iron Frame, End Brackets, Fan Cover, and Main Conduit Box
- Dual Drilled Feet – Longer Frames. (i.e. 145T Drilled Also for 143T)
- 1045 Carbon Steel Shaft
- Aluminum Die Cast Squirrel Cage Rotor Construction
- Paint System: 2 Part Epoxy
- Paint Color: Blue – Munsell 5PB 3/ 8
- Single Shielded Regreasable Bearings with Polyrex Grease
- Vacuum De-Gassed Re-Greasable Ball Bearings for Frames 280TS - 5808B Using Polyrex EM Grease
- Automatic Grease Discharge Fittings on Frames on Re-Greasable motors
- Grounding Terminal Inside Main Box with Provisions for Grounding on Frame
- Stainless Steel Nameplate and Hardware
- Stainless Steel Automatic Breather Drains
- UL Recognized and CSA Approved for Inverter Duty per NEMA MG 1, Part 31 - Note (3)
- Inverter Duty Magnet Wire Capable of Withstanding Voltage Spikes of Up to 2200V
- **Precautions should be taken to eliminate or reduce shaft currents that may be imposed on the motor by the VFD.**
- Speed Ranges: 20:1 VT, 10:1 CT. 3:1 CT for 350 hp and up
- 3 Leads Only
- Vibration Not to Exceed 0.08 Inches per Second
- Noise Level Not to Exceed 85 dB(A) at 1 Meter Unloaded
- INPRO™ Seals Installed on Both Ends
- Breather Drains in Both End Frames for Vertical Mount

EXTRAS/ OPTIONS:

Please refer to pages 77 - 82 for common modifications that can be performed.

Notes:

- (1) Main conduit box on 444-449T/TS and larger is TWMC standard size.
- (2) Please consult factory for suitability in higher ambients and higher elevations.
- (3) Motor service factor is 1.0 when operated on a VFD.
- (4) HB3006, HB3502, HB3504, and 5000 frames and larger are not dual drilled.