

# MAX-E2/841® FAMILY



TYPE: AEHH8B, AEHH8BCF, AEUH8BDC - NEMA PREMIUM

Effective 06-14-15  
Supercedes 05-01-13



## APPLICATIONS:

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

## FEATURES:

- 1 - 500 HP
- 3600, 1800, 1200, 900 RPM
- Totally Enclosed Fan Cooled IP56 (IP66 - Note (5))
- 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
- Class B Temperature Rise, Class F Insulation with Phenolic Alkyd Resin Varnish – 2 Dips and Bakes
- NEMA Design B Torques as a Minimum, Design C Motors are Denoted with Subscript "C"
- Oversized Main Conduit Box Rotatable in 90 Degree Increments – Fully Gasketed with NPT Threaded Entrance – F1 Mounted. F2 Available – See EXTRAS/ OPTIONS Below
- Fabricated Steel Main Lead Box 447 Frames and Larger.
- Designed for 40°C Ambient Temperature @ 1.15 S.F.; S.F. Up to 440 Frames Designed for 50°C Ambient Temperature @ 1.15 S.F.; Larger Frames with Service Factor @ 1.0 - Note (1, 2)
- Designed for 3300 ft. Elevation - Note (2)
- CSA Certified for Class I, Division II, Groups B, C, D; Class II, Div. 2, Groups F & G. Non Sparking, Non Static Fan - Note (4)
- Bi-Directional 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 for Re-Greasable motors
- Grounding Terminal Inside Main Box with Provisions for Grounding on Frame
- Stainless Steel Nameplate and Hardware
- Stainless Steel Automatic Breather Drains (located at both end brackets for vertical mounts)
- 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 2200 Volts
- **Precautions Should be Taken to Eliminate or Reduce Shaft Currents that May be Imposed on the Motor by the VFD.**
- Speed Ranges: 60:1 VT; 20:1 CT Up to 200 HP; 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 One Meter Unloaded
- INPRO™ Seals Installed on Both Ends

## EXTRAS/ OPTIONS:

Please refer to the modifications document on our web site 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) HB3502, HB3504, and 5000 frames and larger are not dual drilled.
- (5) Please consult with factory about suitability for IP66 with VBXX seal mod.