

# MAX-E2® NEMA PREMIUM EFFICIENCY



## TYPE AEHH

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



### APPLICATIONS:

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

### FEATURES:

- 1 - 300 hp
- 3600, 1800, 1200 RPM
- Totally Enclosed Fan Cooled (IP55 Rating)
- IEEE 841 Ready
- Meets GM 7E-TA Specifications
- Meets IEEE 45 Marine Duty
- NEMA Premium Efficient
- Department of Energy Efficiency Certification #CC002A
- 36 Month Warranty from Date of Manufacture
- 60 Hz, 460V Only
- 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 - Note (1)
- 50°C @ 1.0 S.F - Note (1,2)
- 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
- Cast Iron Inner and Outer Bearing Caps
- 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
- Vacuum De-Gassed Re-Greaseable Ball Bearings Using Polyrex EM Grease
- Automatic Grease Discharge Fittings on Frames on Re-Greaseable Motors
- Grounding Terminal Inside Main Box with Provisions for Grounding on Foot
- Stainless Steel Nameplate and Hardware
- Stainless Steel Automatic Breather Drains
- UL 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 as stated per NEMA MG1, Part 31.4.4.3.**
- Speed Ranges: 20:1 VT, 10:1 CT
- 3 Leads Only
- Vibration Not to Exceed 0.08 Inches per Second
- Noise Level Not to Exceed 85 dB(A) at 1 Meter Unloaded

### EXTRAS/ OPTIONS:

Please refer to the modifications document on our web site for a list of common modifications that can be performed.

#### Notes:

- (1) Please consult factory for suitability in higher ambients.
- (2) Please consult factory for suitability in higher elevations.
- (3) Motor service factor is 1.0 when operated on a VFD.