

MAX-E1™ NEMA PREMIUM EFFICIENCY



TYPE AEHE, AEHH8N

Effective 08-01-06
Supersedes 08-22-05



APPLICATIONS:

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

FEATURES:

- 3/4 - 800 HP
- 3600, 1800, 1200, 900 RPM
- Totally Enclosed Fan Cooled (IP54 Rating)
- NEMA Premium Efficient Ratings From 1 - 500 HP, Denoted Catalog Number Prefix of "EP" - Note (1)
- Department of Energy Efficiency Certification # CC002A
- 36 Months Warranty from Date of Manufacture
- 3 Phase, 60 Hz, 230/460V (Usable on 208V) - 150 HP and Larger are 460V Only
- 575V Ratings Available, Denoted by a Catalog Number Suffix of "5" - Note (2)
- 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 and Designed for 3300 ft. Elevation - Note (3)
- CSA Certified for Class I, Division II, Groups B, C, D, Temp Code T3C, Non Sparking, Non Static Fan - Note (4)
- Bi-Directional Rotation Except 2 Pole Motors 5000 Frame and Larger which are Unidirectional CCW Facing the Drive-End. See EXTRAS / OPTIONS Below if CW Rotation is Required.
- Cast Iron Frame, End Bells, Fan Cover, and Main Conduit Box
- Dual Drilled Feet - Longer Frames. (i.e. 145T Drilled Also for 143T) Through 449T Frames Only
- 1045 Carbon Steel Shaft
- Aluminum Die Cast Squirrel Cage Rotor Construction for Frames 5011 and Smaller. Copper / Copper Alloy Rotor for Frames 5800-6800.
- Paint System: Phenolic Rust Proof Base Plus Polyurethane Top Coat
- Paint Color: Light Grey - Munsell N5.0
- Vacuum De-Gassed Regreasable Ball Bearings (or Roller) Using Polyrex EM Grease
- Automatic Grease Discharge Fittings
- Labyrinth Type Metal Flinger on Both Ends for Frames 280TS to 6800
- Rubber Flinger on Drive-End for Frames 140T to 280T
- Cast Iron Inner and Outer Bearing Caps on Both Ends for Frames 280TS to 6800
- Grounding Terminal Inside Main Box
- Stainless Steel Nameplate
- UL Recognized and CSA Approved for Inverter Duty per NEMA MG 1, Part 31 - 300 HP and Below. 350 HP and Above are Suitable for Inverter Duty per NEMA MG 1, Part 31, 4.4.2 - Note (5)
- HPE Stator Wire Capable of Withstanding Voltage Spikes of Up to 2200 Volts
- Speed Ranges: 20:1 VT, 10:1 CT
- 9 Leads - 5 HP and Below, 12 Leads - 7.5 HP to 125 HP, 6 Leads - 150 HP and Larger

Notes:

- (1) NEMA Premium Efficiency levels only applies to 1-500 HP, 3600, 1800, 1200 RPM.
- (2) TWMC carries minimal 575V stock. Please check availability to ensure required motors are in stock. Ratings may be available from our Canadian warehouses at a higher price, or from our factory with longer lead time.
- (3) Please consult factory for suitability in higher ambients and higher elevations.
- (4) Additional charge for Division II nameplate.
- (5) Motor service factor is 1.0 when operated on a VFD.