

GLOBAL-PLUS TEFC, NEMA PREMIUM EFFICIENCY



Effective 05-01-13
Supercedes 08-01-11

TYPE AEHGK, AEHG



APPLICATIONS:

- Pumps
- Fans & Blowers
- Compressors

FEATURES:

- 100 - 900 hp
- 3600, 1800, 1200, 900 RPM
- Totally Enclosed Fan Cooled (IP55 Rating)
- NEMA Premium Efficiency Design (250 hp - 500 hp, 2, 4, 6, Pole)
- 36 Month Warranty from Date of Manufacture
- 60 Hz, 2300/ 4160V
- Standard with 120V Space Heaters Terminated in Separate Auxiliary Box
- Standard with 100 Ohm Platinum Stator RTDs, 2 per Phase, Terminated in Separate Auxiliary Box
- Factory Self-Certified for Class I, Division II, Groups B, C, D; Temp Code T3B - Note (1)
- 1.15 Service Factor – Continuous
- Class F with VPI Treatment of Solventless Epoxy Varnish Insulation
- Class B Temperature Rise
- NEMA Design B Torques
- Oversized Main Conduit Box Rotatable in 90 Degree Increments – Fully Gasketed with NPT Threaded Entrances - F1 Mounted.
- Designed for 40°C Ambient Temperature - Note (2)
- Designed for 3300 ft. Elevation - Note (3)
- Bidirectional Rotation Except 2 Pole Motors, 5000 Frames and Larger which are Unidirectional, CCW, Facing the Drive-End. See EXTRAS/ OPTIONS Below if CW Rotation is Required.
- Cast Iron Frame, End Brackets, and Conduit Box
- Rolled Steel Fan Cover
- 1045 Carbon Steel Shaft
- Copper/ Copper Alloy Rotor Construction for Frames 5800 - 6800.
Aluminum Die-Cast Rotor Construction for All Others
- Paint System: Phenolic Rust Proof Base Plus Polyurethane Top Coat
- Paint Color: Blue Gray – Munsell 7.5BG 4/ 2
- Vacuum De-Gassed Re-Greasable Ball or Roller Bearings Using Polyrex EM Grease
- Insulated Non-Drive End Bearing on 3600 RPM Motors, 600 hp and Larger
- Labyrinth Type Metal Grease Flinger on Both Ends
- Cast Iron Inner and Outer Bearing Caps
- Grounding Terminal Inside Main Box and on Motor Foot
- Stainless Steel Nameplate
- Suitable for Use on a VFD 2:1 CT, 4:1 VT - Notes (4)(5)(6)
- 6 Leads
- Motors are CSA Approved
- **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.**

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 see modifications section if auxiliary nameplate stating this info is required.
- (2) Please consult factory for suitability in higher ambients.
- (3) Please consult factory for suitability in higher elevations.
- (4) Service factor is 1.0 when motor is used on a VFD.
- (5) An isolation transformer or other method of mitigate common mode voltages from motor terminals must be utilized.
- (6) Please contact TWMC for variable and constant torque speed ranges.
- (7) **Please refer to page 132 to check out our accompanying TEAMMaster starters.**