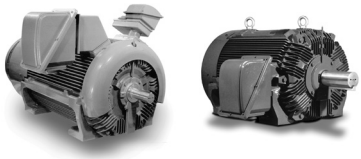
GLOBAL-PLUS TEFC NEMA PREMIUM EFFICIENCY

TYPE AEHGTK, AEHA

Effective 08-01-11
Supercedes 12-01-09



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 click here 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 mitigating 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 122 to check out our accompanying TEAMMaster starters.**