TEXP NEMA PREMIUM EXPLOSION PROOF FAMILY

TYPE AEHHXU, AEHHXF, AEUHXF

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

APPLICATIONS:

- Grain Elevators
- Pumps
- Blowers
- Applications Where Explosive Gases are Present
- Applications Where Explosive Dusts/ Grains are Present

FEATURES:

- 1 - 150 hp
- 1 - 100 hp – Foot Mounted with C-Flange or 1 - 75 hp Round Body with C-Flange
- 3600, 1800, 1200 RPM
- Toally Enclosed Fan Cooled - Explosion Proof (IP55 Rating)
- UL and CSA Listed for Class I, Division I, Group D and Class II, Groups E, F, G; Temp Code T2D/T3B
- UL File #: E84757
- CSA File #: 64671
- NEMA Premium Efficient Design
- Meets or Exceeds EPAct Efficiency Levels on the Round Body C-Face Design
- Department of Energy Efficiency Certification #CC002A
- 36 Month Warranty from Date of Manufacture
- 60 Hz - 230/ 460V (Usable on 208V). 150 hp is 460V Only
- 1.15 Service Factor – Continuous
- Class F Insulation with Phenolic Alkyd Resin Varnish
- Standard with Klixon 9700K Temperature Limiting Switch, 1 per Phase
- Class B Temperature Rise
- NEMA Design B Torques
- Oversized Main Conduit Box Rotatable in 90 Degree Increments – Fully Gasketed with NPT Threaded Entrance – F1 Mounted.
- Designed for 40˚C Ambient Temperature - Note (1)
- Designed for 3300 ft. Elevation - Note (2)
- Bidirectional Rotation
- Cast Iron Frame, Fan Cover, End Bells, and Main Conduit Box. Capable of Withstanding Explosion Force as Required by UL.
- Stainless Steel Breather Drains with Bronze Filters
- 1045 Carbon Steel Shaft
- Aluminum Die Cast Squirrel Cage Rotor Construction
- Paint System: Phenolic Rust Proof Base Plus Polyurethane Top Coat
- Paint Color: Dark Blue – Munsell 5PB 4.5/ 2
- Vacuum De-Gassed Regreasable Ball (or Roller) Bearings on Frames 280TS - 445T/ TS Using Polyrex EM Grease
- Double Shielded Bearings on Frames 140T-280T Pre-Packed with MULTEMP SRL Grease
- Brass Flinger on Both Ends
- Cast Iron Inner and Outer Bearing Caps for Frames 280TS - 445T/ TS
- Grounding Terminal Inside Main Box
- Stainless Steel Nameplate
- UL Listed for Inverter Duty - Note (3)
- Inverter Duty Magnet Wire Capable of Withstanding Voltage Spikes of Up to 2200 Volts
- Speed Ranges: VT = 3 - 60 Hz; CT for 140 - 210 frames = 10 - 60 Hz.; CT for 250 - 320 frames = 13 - 60 Hz; CT for 360 - 440 frames = 16 - 60 Hz
- 9 Leads for 5 hp and Below, 12 Leads for 7.5 hp to 125 hp, 6 Leads for 150 hp
- 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 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.
(4) EXTRAS/ OPTIONS are limited on TEXP products.