# **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:

<ul> <li>1 - 150 hp</li> <li>1 - 150 hp</li> <li>1 - 100 hp - Foot Mounted with C-Flange or 1 - 75 hp Round Body with C-Flange</li> <li>3600, 1800, 1200 RPM</li> <li>Toally Enclosed Fan Cooled - Explosion Proof (IP55 Rating)</li> <li>U L and CSA Listed for Class I, Division I, Group D and Class II, Groups E, F, G; Temp Code T2D/T3B</li> <li>U L File #: E44757</li> <li>CSA File #: 64671</li> <li>NEMA Premium Efficient Design</li> <li>Meets or Exceeds EPAct Efficiency Levels on the Round Body C-Face Design</li> <li>Department of Encry Efficiency Certification #CC002A</li> <li>36 Month Warranty from Date of Manufacture</li> <li>60 Hz - 230/ 460V (Usable on 208V). 150 hp is 460V Only</li> <li>1.15 Service Factor - Continuous</li> <li>Class F Insulation with Phenolic Alkyd Resin Varnish</li> <li>Standard with Kiknon 9700K Temperature Limiting Switch, 1 per Phase</li> <li>Class B Temperature Rise</li> <li>NEMA Design B Torques</li> <li>NEMA Design B Torques</li> <li>Net Adv C Ambient Temperature - Note (1)</li> <li>Designed for 3300 ft. Elevation - Note (2)</li> <li>Bidirectional Rotation</li> <li>Designed for 3400 ft. Elevation - Note (2)</li> <li>Bidirectional Rotation</li> <li>Cast Iron Frame, Fan Cover, End Bells, and Main Conduit Box. Capable of Withstanding Explosion Force as Required by UL.</li> <li>Statiless Steel Breather Drains with Bronze Filters</li> <li>1045 Carbon Steel Shaft</li> <li>Aluminum Die Cast Sequired Cage Rotor Construction</li> <li>Paint Color: Dark Blue - Munsell SPB 4.5/2</li> <li>Vacuum De-Gassed Ball (or Roller) Bearings on Frames 280TS - 445T/TS Using Polyrex EM Grease</li> <li>Double Shielded Bearings on Frames 120T - Packed with MULTEMP SRL Grease</li> <li>Brass Filtinger on Both Ends</li> <li>Cast Iron Frameplate</li> <li>U Listed for Inverter Duty - Note (3)</li> <li>Inverter Duty Magnet Wire Capable of Withstanding Voltage Spikes of Up to 2200 Volts</li> <li>Statialess Steel Breamplate</li> <li>U Listed for Inverter Duty - Note (3)</li> <li>Inverter Duty Magnet Wire Capable of With</li></ul>	AIURES:	
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<ul> <li>UL Listed for Inverter Duty - Note (3)</li> <li>Inverter Duty Magnet Wire Capable of Withstanding Voltage Spikes of Up to 2200 Volts</li> <li>Speed Ranges: VT = 3 - 60 Hz CT for 250 - 320 frames = 13 - 60 Hz</li> <li>CT for 360 - 440 frames = 16 - 60 Hz</li> </ul>		
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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		
CT for 250 - 320 frames = 13 - 60 Hz CT for 360 - 440 frames = 16 - 60 Hz	Inverter Duty Magnet Wire Capable of Withstanding Voltag	e Spikes of Up to 2200 Volts
	Speed Ranges: VT = 3 - 60 Hz	CT for 140 - 210 frames = 10 - 60 Hz.
9 Leads for 5 hp and Below, 12 Leads for 7.5 hp to 125 hp, 6 Leads for 150 hp		
i server e here e here e h	■ 9 Leads for 5 hp and Below, 12 Leads for 7.5 hp to 125 hp, 6	5 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.		urrents that may be imposed on the motor by the

#### **EXTRAS/ OPTIONS:**

Please <u>click here</u> 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.

**TECO** Westinghouse