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 - 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) U L and CSA Listed for Class I, Division I, Group D and Class II, Groups E, F, G; Temp Code T2D/T3B U L File #: E44757 CSA File #: 64671 NEMA Premium Efficient Design Meets or Exceeds EPAct Efficiency Levels on the Round Body C-Face Design Department of Encry 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 Kiknon 9700K Temperature Limiting Switch, 1 per Phase Class B Temperature Rise NEMA Design B Torques NEMA Design B Torques Net Adv C Ambient Temperature - Note (1) Designed for 3300 ft. Elevation - Note (2) Bidirectional Rotation Designed for 3400 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. Statiless Steel Breather Drains with Bronze Filters 1045 Carbon Steel Shaft Aluminum Die Cast Sequired Cage Rotor Construction Paint Color: Dark Blue - Munsell SPB 4.5/2 Vacuum De-Gassed Ball (or Roller) Bearings on Frames 280TS - 445T/TS Using Polyrex EM Grease Double Shielded Bearings on Frames 120T - Packed with MULTEMP SRL Grease Brass Filtinger on Both Ends Cast Iron Frameplate U Listed for Inverter Duty - Note (3) Inverter Duty Magnet Wire Capable of Withstanding Voltage Spikes of Up to 2200 Volts Statialess Steel Breamplate U Listed for Inverter Duty - Note (3) Inverter Duty Magnet Wire Capable of With	AIURES:	
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 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 250 - 320 frames = 13 - 60 Hz 	NEMA Design B Torques	
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 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 250 - 320 frames = 13 - 60 Hz CT for 360 - 440 frames = 16 - 60 Hz 		
 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 	Designed for 3300 ft. Elevation - Note (2)	
 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 SPB 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 250 - 320 frames = 13 - 60 Hz 	Bidirectional Rotation	
 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 250 - 320 frames = 13 - 60 Hz CT for 360 - 440 frames = 16 - 60 Hz 	Cast Iron Frame, Fan Cover, End Bells, and Main Conduit Bo	x. Capable of Withstanding Explosion Force as Required by UL.
 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 250 - 320 frames = 13 - 60 Hz CT for 360 - 440 frames = 16 - 60 Hz 	Stainless Steel Breather Drains with Bronze Filters	
 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 250 - 320 frames = 13 - 60 Hz CT for 360 - 440 frames = 16 - 60 Hz 	1045 Carbon Steel Shaft	
 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 250 - 320 frames = 13 - 60 Hz CT for 360 - 440 frames = 16 - 60 Hz 		
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 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 	Paint Color: Dark Blue – Munsell 5PB 4.5/ 2	
 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 		
 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 	Double Shielded Bearings on Frames 140T-280T Pre-Packed	d with MULTEMP SRL Grease
 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 250 - 320 frames = 13 - 60 Hz CT for 360 - 440 frames = 16 - 60 Hz 	Brass Flinger on Both Ends	
 Stainless Šteel 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 	Cast Iron Inner and Outer Bearing Caps for Frames 280TS -	445T/ TS
 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 250 - 320 frames = 13 - 60 Hz CT for 360 - 440 frames = 16 - 60 Hz 		
 Inverter Duty Magnet Wire Capable of Withstanding Voltage Spikes of Up to 2200 Volts Speed Ranges: VT = 3 - 60 Hz CT for 250 - 320 frames = 13 - 60 Hz CT for 360 - 440 frames = 16 - 60 Hz 	Stainless Steel Nameplate	
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