

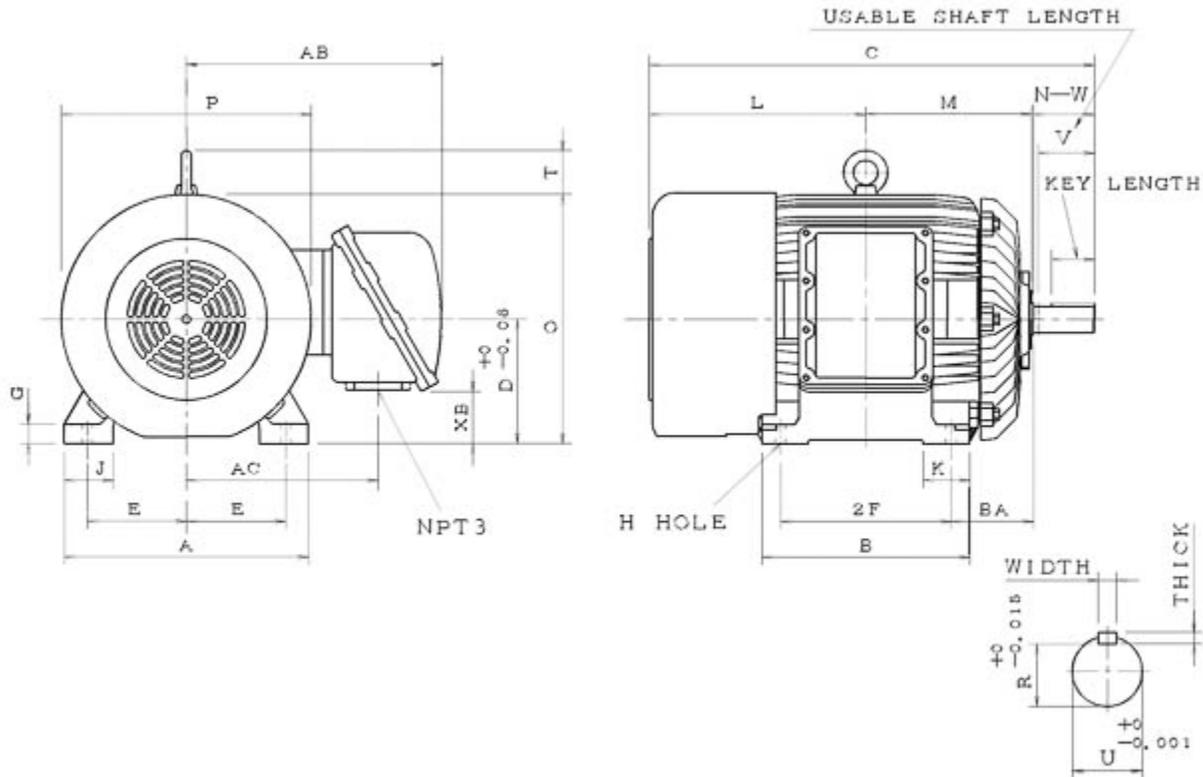
Technical Documentation

**XH12525**  
**Optim TEXP | AEHHXU**

Date: December 1, 2016

**Dimensional Drawing**

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
XH12525	AEHHXU	125	2	93	Continuous	575 V	60	3600



AEHHXU-HMP-1 1 0

Frame Size	Mounting					A	B	C	CD	D	
	E	2F	2F2	H	BA						
444TS	9	14.5		0.81	7.5	22.05	17.5	38.3		11	
G	J	K	L	M	O	P	T	Key			Keyseat
1.55	4.35	4.35	18.8	14.45	22.25	23.3	3.55	Width	Thick	Length	R
								0.625	0.625	3.03	2.021
Terminal Housing				Aux Box		C/D Flange					
AA	AB	AC	XB	AE	AX	BB	AH	AK	BD	AJ	BF
NPT3"	21.65	16.6	5.1								
Shaft Extension			Bearings		Approx. Weight Lbs	SPL dBA/3ft	Ins. Class	S.F.	Drive Method	Dimensions	
N-W	U	V	DE	NDE							
4.75	2.375	4.5	6313C3	6313C3	1560	85.0	F	1.15	Direct Coupling	Inches	

### Technical Data Sheet

Motor Type: AEHHXU

Catalogue No: XH12525

#### Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
125	2	3566	444TS	575	60	3
Enclosure	Ins. Class	Service Factor	Time Rating	NEMA Design	Rated Amb.	Rated Altitude
TEXP	F	1.15	Continuous	B	-40 to 40 °C	<3300 ft

#### Typical Performance

Efficiency (%)				Power Factor (%)		
Full Load		3/4 Load	1/2 Load	Full Load	3/4 Load	1/2 Load
Nom.	Min.					
95.0	94.1	94.5	93.6	90.0	83.5	80.5
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
184.0	100.0	80.0	210.0	29.8	109.5	726
NEMA KVA Code	Inertia (WR <sup>2</sup> )			Safe Stall Time (s)		Noise Level Sound Press. dB(A)
	Rotor (lb-ft <sup>2</sup> )	NEMA Load (lb-ft <sup>2</sup> )	Max. Allowable (lb-ft <sup>2</sup> )	Cold	Hot	
G	17.0	113.0	196.0	52.0	17.0	85.0

#### VFD Duty Information

Speed Range			VFD		S.F.
Constant Torque	Variable Torque	Constant Power	Carrier	Type	
6-60Hz	3-60Hz	60-90Hz	≤ 5 kHz	VPWM or CPWM	1.0 Only

#### Additional Information

Bearings		Approx. Weight
DE	NDE	lbs
6313C3	6313C3	1560

#### Hazardous Locations Information

CSA/UL Certified	
Class I, Div 1, Groups D; Class II, Div 1, Groups E, F & G Class I, Zone 1, Groups IIA; Class II, Div 1, Groups E, F & G	
Temp Code (Sinewave / VFD)	T3B / T3B

**Connection Diagram**

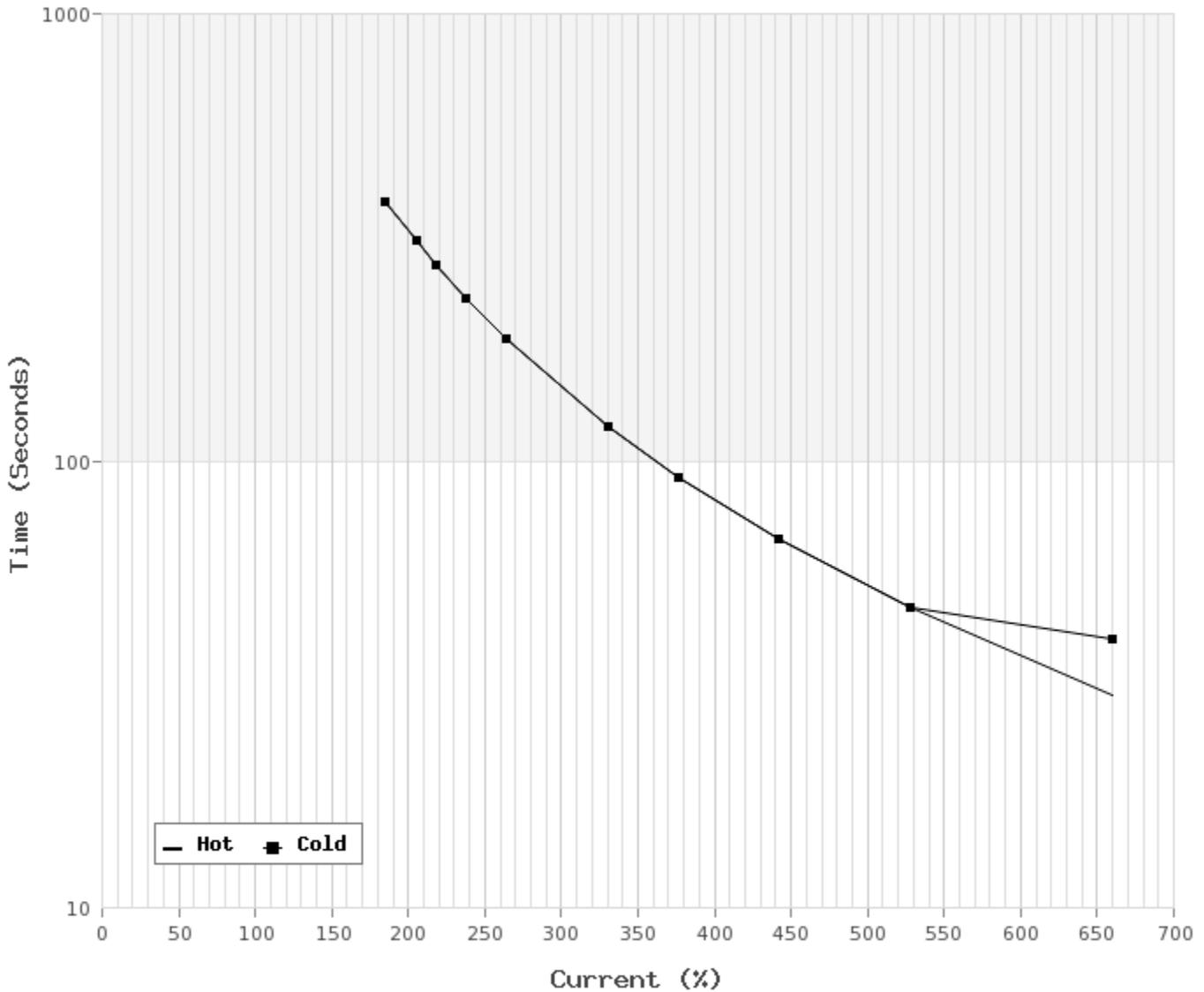


3 LEAD SINGLE VOLTAGE DELTA					
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD\_3D

**Thermal Limit Curves**

Motor Type: AEHHXU		Catalogue No: XH12525		Family: Optim TEXP	
HP	125	Safe Stall Time		Full Load A	0.0 / 109.5 A
Voltage	0 / 575V 60Hz	Hot	17.0 s	Locked Rotor A	663 %
RPM	3600	Cold	52.0 s	Locked Rotor A	0.0 / 726 A



**T-N and I-N Curves**

Motor Type: AEHHXU		Catalogue No: XH12525		Family: Optim TEXP	
HP	125	Full Load T	184.0 lb-ft	Full Load A	109.5 A
Voltage	575V 60Hz	Locked Rotor T	100.0 %	Locked Rotor A	726.0 A
RPM	3600	Pull Up T	80.0 %	Break Down T	210.0 %

