

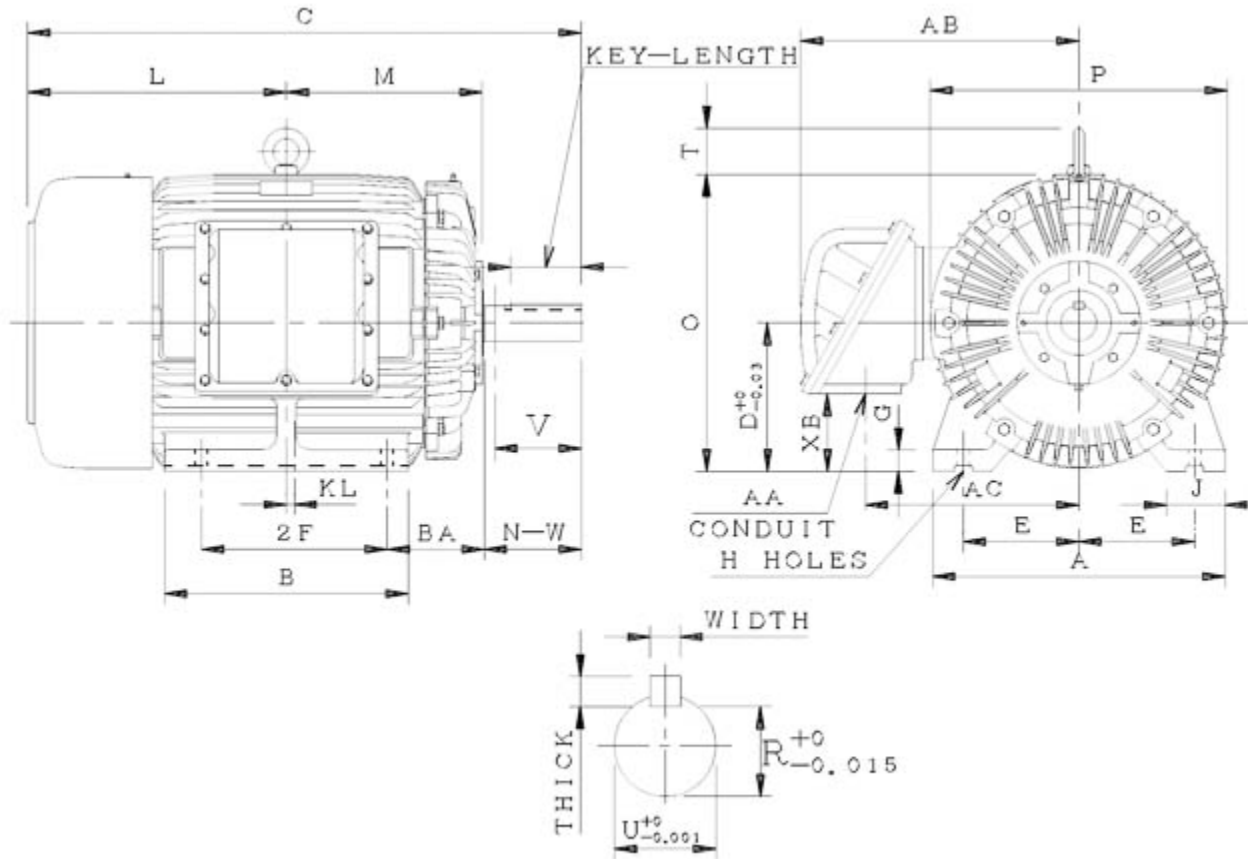
Technical Documentation

**XH0756**  
**Optim TEXP | AEHHXU**

Date: December 1, 2016

**Dimensional Drawing**

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
XH0756	AEHHXU	75	6	56	Continuous	230 / 460 V	60	1200



AEHHXU-SMP-4 1 0

Frame Size	Mounting					A	B	C	CD	D	
	E	2F	2F2	H	BA						
405T	8	13.75		0.81	6.62	19.69	16.73	38.38		10	
G	J	K	L	M	O	P	T	Key			Keyseat
1.58	3.94		17.64	13.73	20.05	20.6	3.54	Width	Thick	Length	R
								0.75	0.75	5.65	2.45
Terminal Housing				Aux Box		C/D Flange					
AA	AB	AC	XB	AE	AX	BB	AH	AK	BD	AJ	BF
NPT3"	20.47	15.43	4.33								
Shaft Extension			Bearings		Approx. Weight Lbs	SPL dBA/3ft	Ins. Class	S.F.	Drive Method	Dimensions	
N-W	U	V	DE	NDE							
7.25	2.875	6.5	6317	6313	1408	70	F	1.15	Direct Coupling / Belt Drive	Inches	

### Technical Data Sheet

Motor Type: AEHHXU

Catalogue No: XH0756

#### Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
75	6	1180	405T	230 / 460	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.					
94.5	93.6	95.0	95.0	86.5	85.0	79.0
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
334	185	155	220	46.4 / 23.2	172.0 / 85.9	1085 / 543
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	32.453	904	1543	17	12	70

#### 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
6317	6313	1408

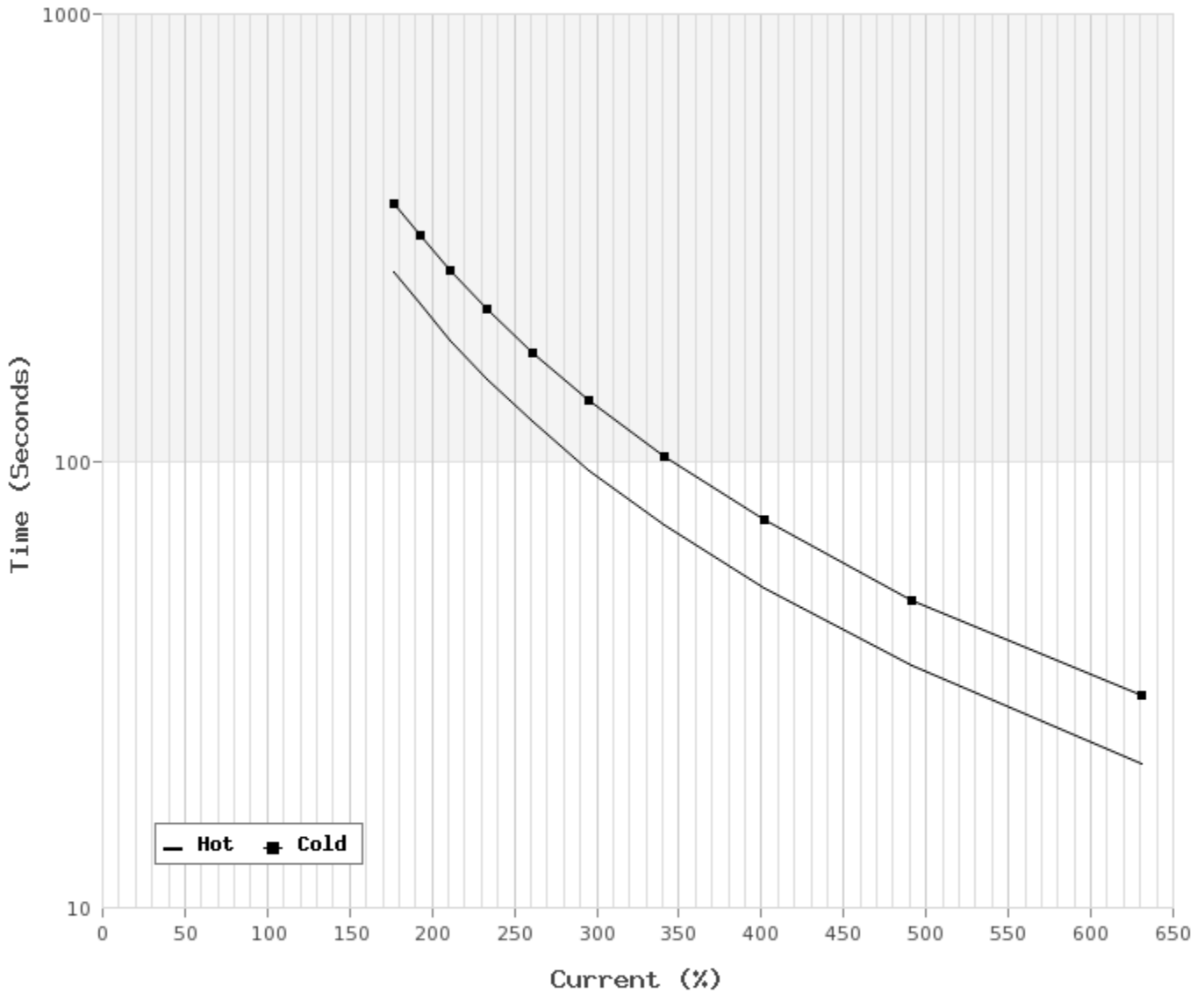
#### Hazardous Locations Information

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



**Thermal Limit Curves**

Motor Type: AEHHXU		Catalogue No: XH0756		Family: Optim TEXP	
HP	75	Safe Stall Time		Full Load A	172.0 / 85.9 A
Voltage	230 / 460V 60Hz	Hot	12 s	Locked Rotor A	631 / 632 %
RPM	1200	Cold	17 s	Locked Rotor A	1,085.0 / 543 A



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

Motor Type: AEHHXU		Catalogue No: XH0756		Family: Optim TEXP	
HP	75	Full Load T	334 lb-ft	Full Load A	172.0 / 85.9 A
Voltage	230 / 460V 60Hz	Locked Rotor T	185 %	Locked Rotor A	1,085.0 / 543.0 A
RPM	1200	Pull Up T	155 %	Break Down T	220 %

