

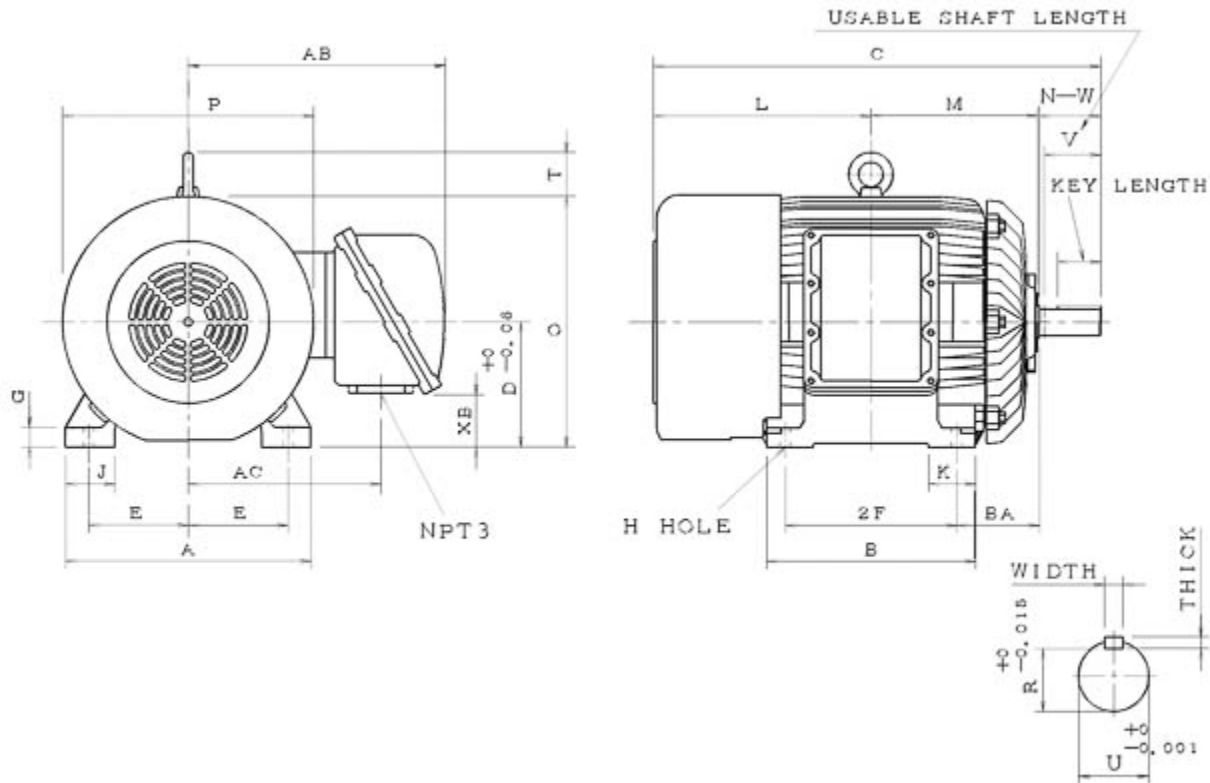
Technical Documentation

XH1502
Optim TEXP | AEHHXU

Date: December 1, 2016

Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
XH1502	AEHHXU	150	2	112	Continuous	460 V	60	3600



AEHHXU-HMP-1 1 0

Frame Size	Mounting					A	B	C	CD	D	
	E	2F	2F2	H	BA						
445TS	9	16.5		0.81	7.5	22.05	19.5	40.3		11	
G	J	K	L	M	O	P	T	Key			Keyseat R
								Width	Thick	Length	
1.55	4.35	4.35	19.8	15.45	22.25	23.3	3.55	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	1600	85	F	1.15	Direct Coupling	Inches	

Technical Data Sheet

Motor Type: AEHHXU

Catalogue No: XH1502

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
150	2	3570	445TS	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.					
95.0	94.1	94.5	93.6	90.0	85.0	81.5
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
220.5937359	100	80	210	42.0	164.0	1085
NEMA KVA Code	Inertia (WR ²)			Safe Stall Time (s)		Noise Level Sound Press. dB(A)
	Rotor (lb-ft ²)	NEMA Load (lb-ft ²)	Max. Allowable (lb-ft ²)	Cold	Hot	
G	22.000	133	215	55	17	85

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

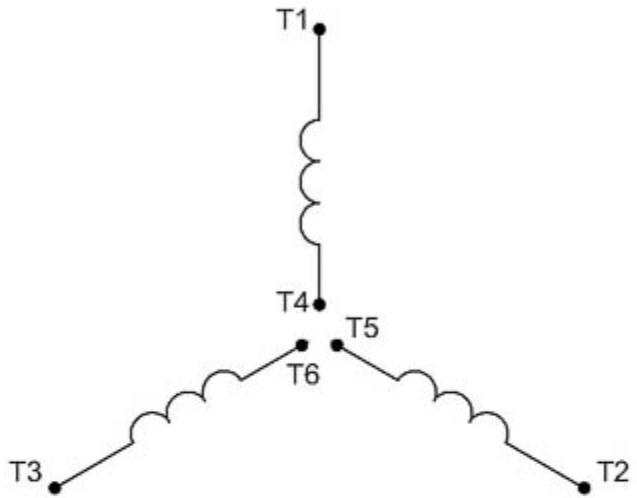
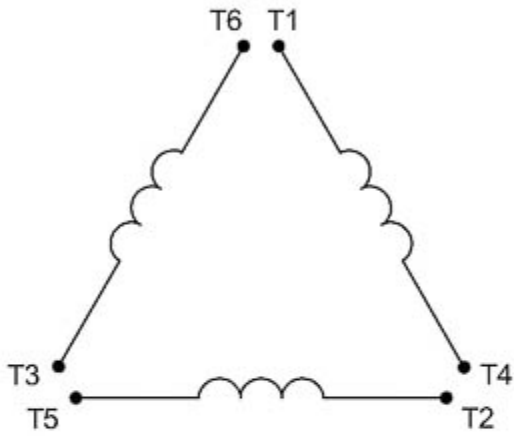
Additional Information

Bearings		Approx. Weight
DE	NDE	lbs
6313C3	6313C3	1600

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

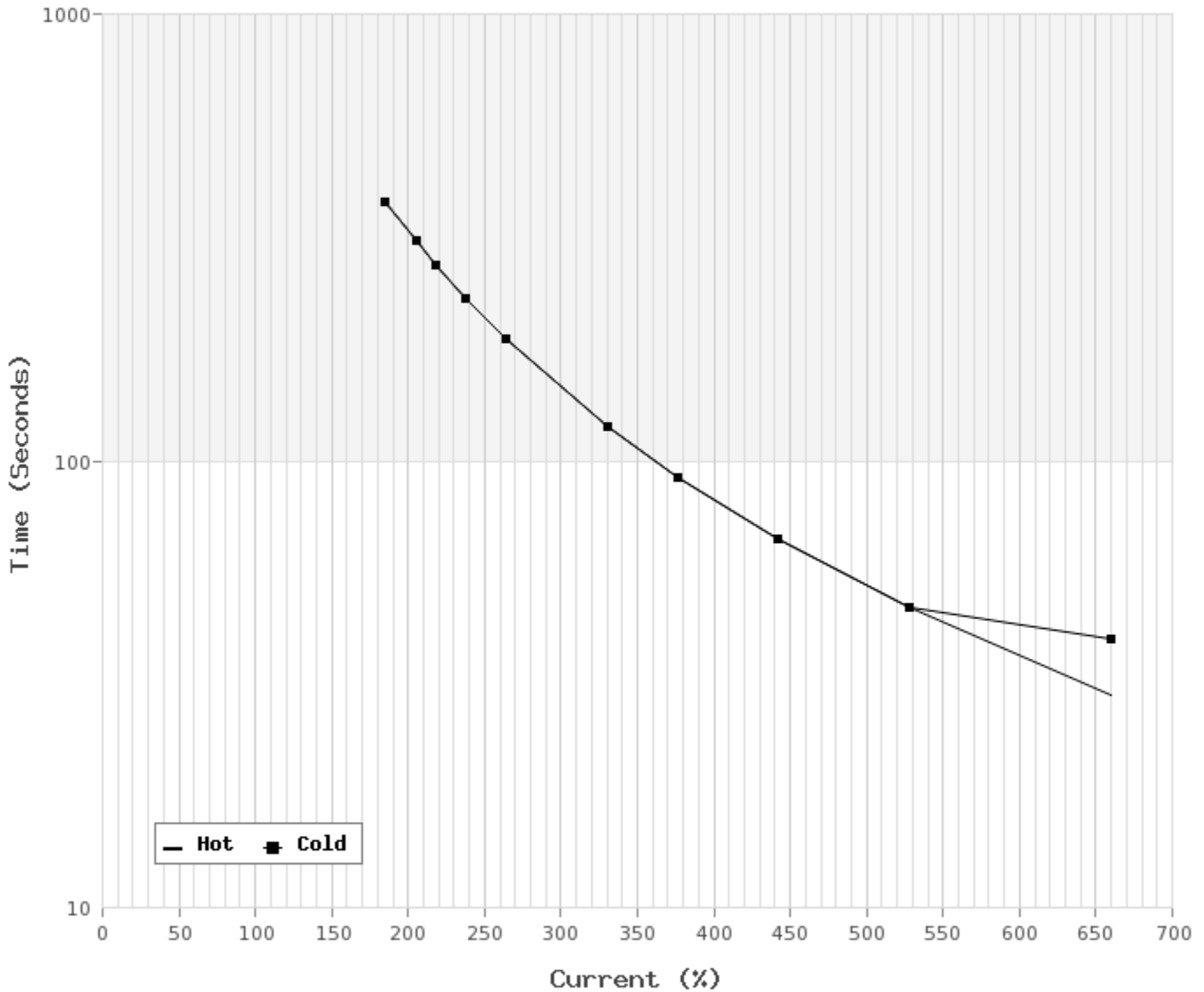


6 LEAD		SINGLE VOLTAGE			WYE/DELTA
CONNECTION		L1	L2	L3	JOIN
START	WYE	1	2	3	4&5&6
RUN	DELTA	1,6	2,4	3,5	-

WD_6YD

Thermal Limit Curves

Motor Type: AEHHXU		Catalogue No: XH1502		Family: Optim TEXP	
HP	150	Safe Stall Time		Full Load A	0.0 / 164.0 A
Voltage	0 / 460V 60Hz	Hot	17 s	Locked Rotor A	662 %
RPM	3600	Cold	55 s	Locked Rotor A	0.0 / 1 A



T-N and I-N Curves

Motor Type: AEHHXU		Catalogue No: XH1502		Family: Optim TEXP	
HP	150	Full Load T	220.5937359 lb-ft	Full Load A	164.0 A
Voltage	460V 60Hz	Locked Rotor T	100 %	Locked Rotor A	1,085.0 A
RPM	3600	Pull Up T	80 %	Break Down T	210 %

