

Technical Documentation

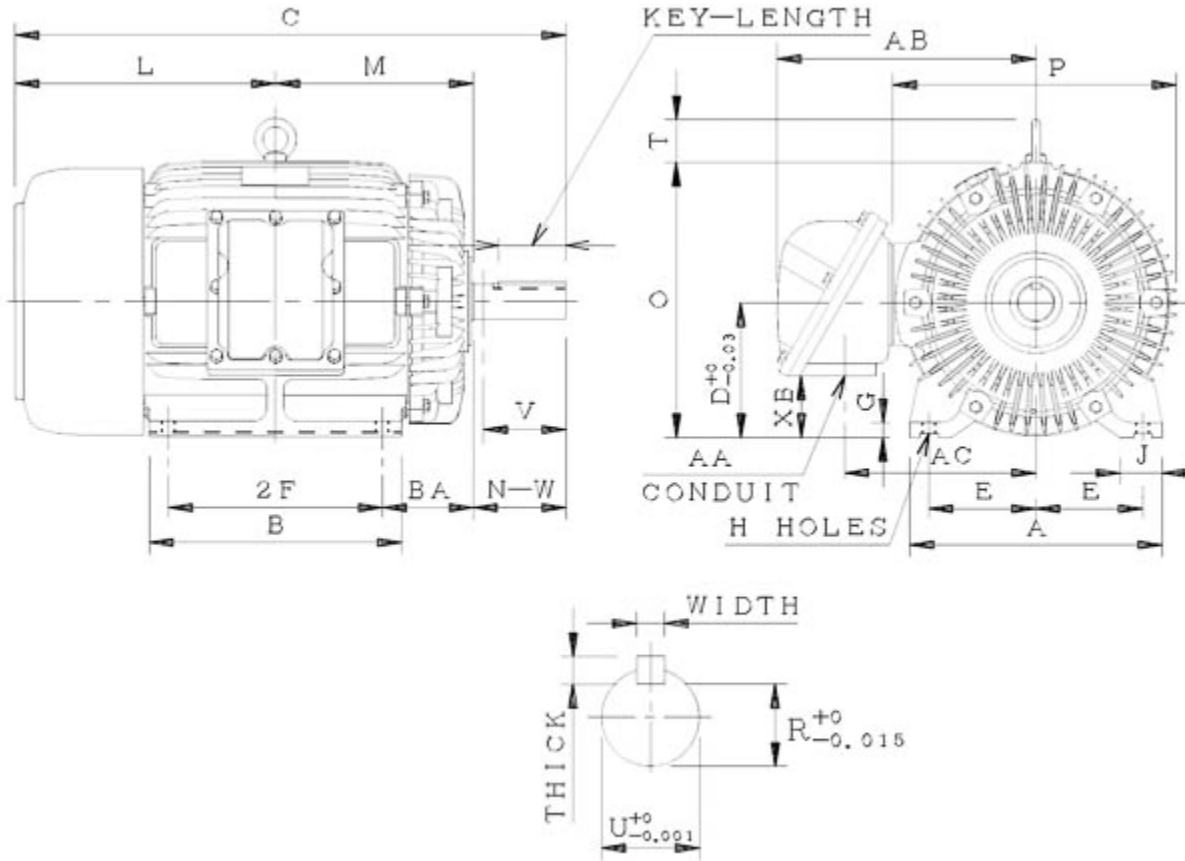
XH0156

Optim TEXP | AEHHXU

Date: December 1, 2016

Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
XH0156	AEHHXU	15	6	11	Continuous	230 / 460 V	60	1200



AEHHXU-SMP-3 1 0

Frame Size	Mounting					A	B	C	CD	D	
	E	2F	2F2	H	BA						
284T	5.5	9.5		0.53	4.75	14	11.7	26.8		7	
G	J	K	L	M	O	P	T	Key			Keyseat
0.7	2.95		12.68	9.27	14.52	15.04	2.36	Width	Thick	Length	R
								0.5	0.5	3.28	1.591
Terminal Housing				Aux Box		C/D Flange					
AA	AB	AC	XB	AE	AX	BB	AH	AK	BD	AJ	BF
NPT1 1/2"	13.23	9.92	3.57								
Shaft Extension			Bearings		Approx. Weight Lbs	SPL dBA/3ft	Ins. Class	S.F.	Drive Method	Dimensions	
N-W	U	V	DE	NDE							
4.62	1.875	4.5	6311ZZ	6310ZZ	488	57	F	1.15	Direct Coupling / Belt Drive	Inches	

Technical Data Sheet

Motor Type: AEHHXU

Catalogue No: XH0156

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
15	6	1180	284T	230 / 460	60	3
Enclosure	Ins. Class	Service Factor	Time Rating	NEMA Design	Rated Amb.	Rated Altitude
TEXP	F	1.15	Continuous	C	-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.					
91.7	90.2	92.0	91.5	83.0	79.5	70.5
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
67	250	190	250	13.0 / 6.5	36.9 / 18.5	232 / 116
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	6.824	200	484	29	20	57

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
6311ZZ	6310ZZ	488

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

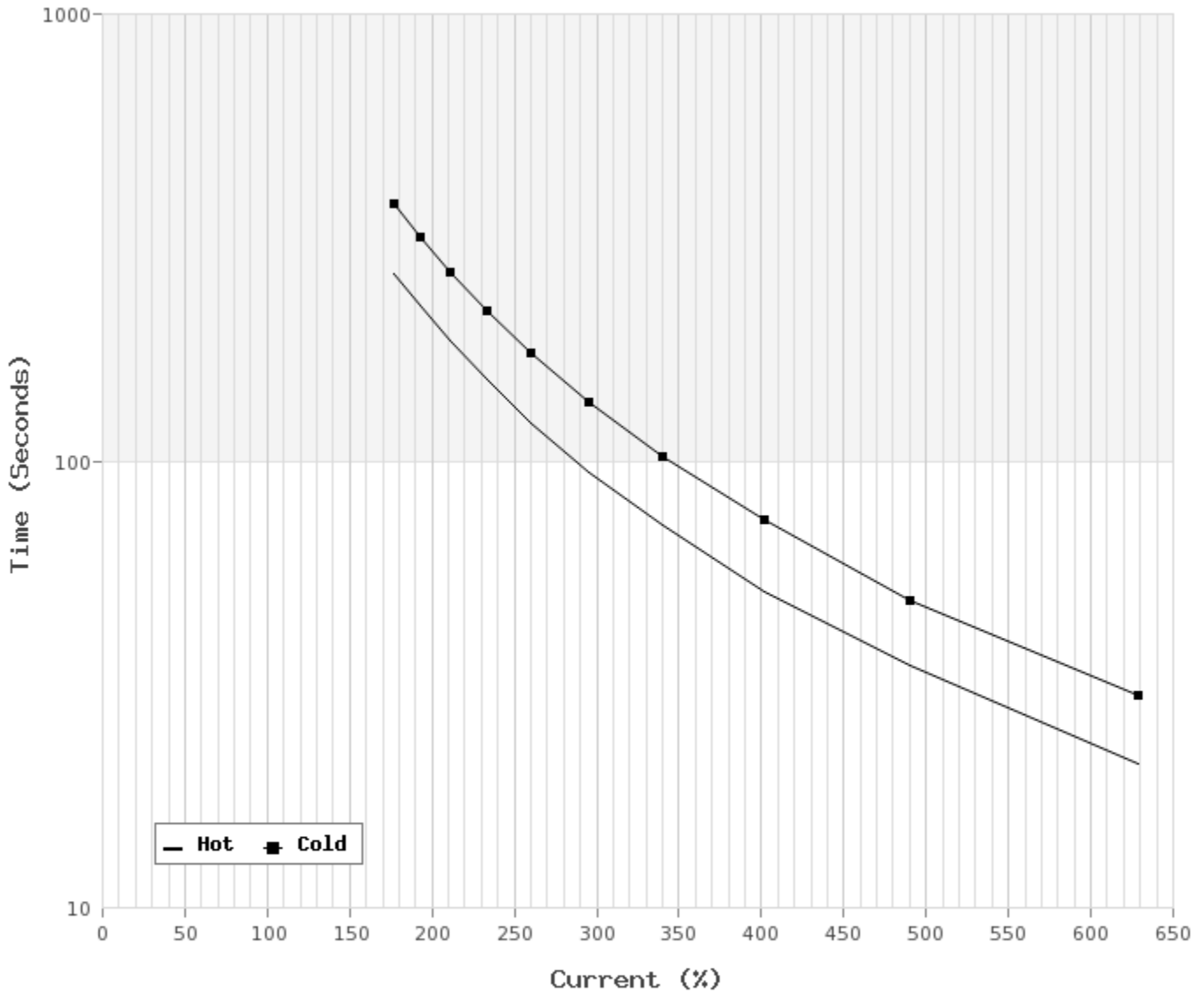


12 LEAD DUAL VOLTAGE WYE/DELTA						
VOLTAGE	CONNECTION		L1	L2	L3	JOIN
HIGH	START	WYE	1	2	3	4&7,5&8,6&9 10&11&12
	RUN	DELTA	1,12	2,10	3,11	4&7,5&8,6&9
LOW	START	2 WYE	1,7	2,8	3,9	4&5&6 10&11&12
	RUN	2 DELTA	1,6,7 12	2,4,8 10	3,5,9 11	

WD_12YD

Thermal Limit Curves

Motor Type: AEHHXU		Catalogue No: XH0156		Family: Optim TEXP	
HP	15	Safe Stall Time		Full Load A	36.9 / 18.5 A
Voltage	230 / 460V 60Hz	Hot	20 s	Locked Rotor A	629 / 627 %
RPM	1200	Cold	29 s	Locked Rotor A	232.0 / 116 A



T-N and I-N Curves

Motor Type: AEHHXU		Catalogue No: XH0156		Family: Optim TEXP	
HP	15	Full Load T	67 lb-ft	Full Load A	36.9 / 18.5 A
Voltage	230 / 460V 60Hz	Locked Rotor T	250 %	Locked Rotor A	232.0 / 116.0 A
RPM	1200	Pull Up T	190 %	Break Down T	250 %

