

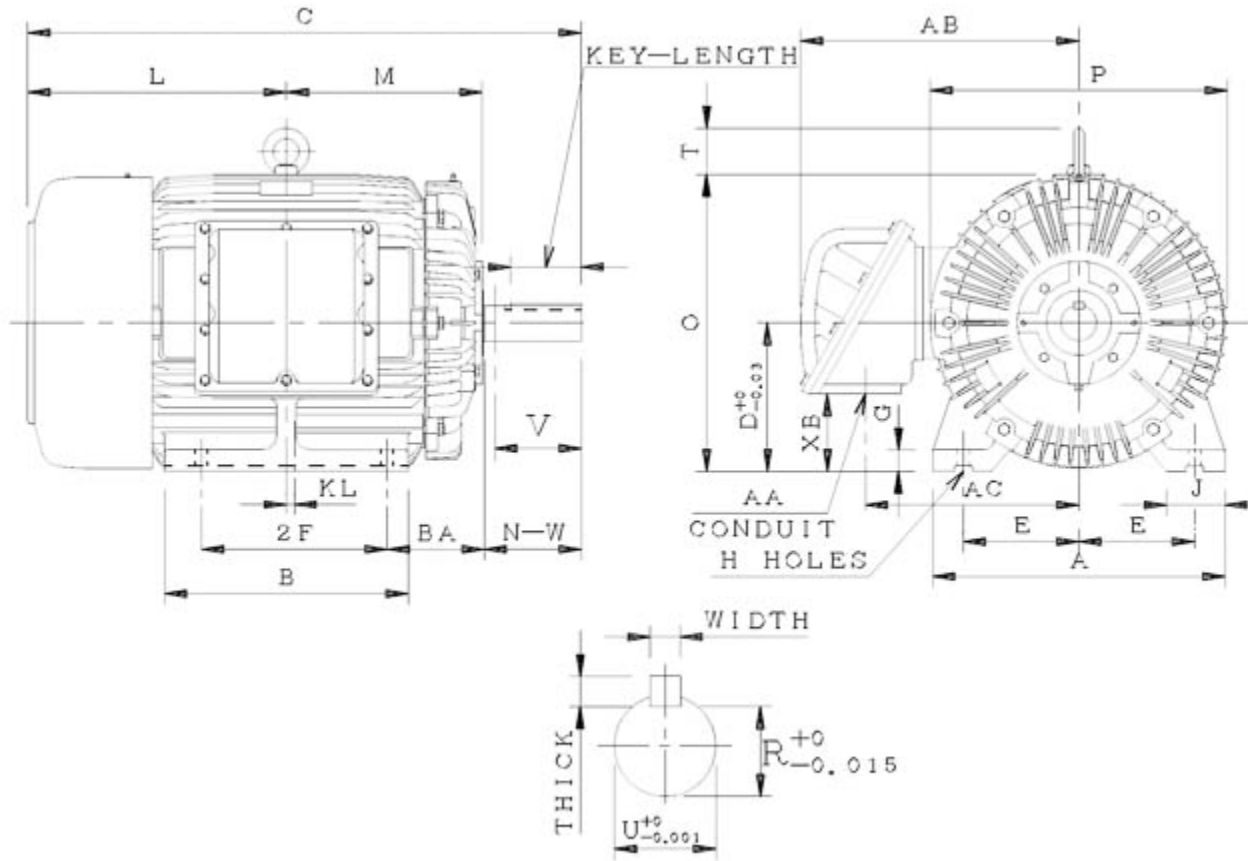
Technical Documentation

XH02525
Optim TEXP | AEHHXU

Date: December 1, 2016

Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
XH02525	AEHHXU	25	2	19	Continuous	575 V	60	3600



AEHHXU-SMP-4 1 0

Frame Size	Mounting					A	B	C	CD	D	
	E	2F	2F2	H	BA						
284TS	5.5	9.5		0.53	4.75	14	11.7	25.43		7	
G	J	K	L	M	O	P	T	Key			Keyseat
0.7	2.95		12.68	9.43	14.52	15.04	2.36	Width	Thick	Length	R
								0.375	0.375	1.93	1.416
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							
3.25	1.625	3.2	6211C3	6211C3	466	76.0	F	1.15	Direct Coupling	Inches	

Technical Data Sheet

Motor Type: AEHHXU

Catalogue No: XH02525

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
25	2	3540	284TS	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.					
91.7	90.2	93.0	92.0	92.0	91.0	87.0
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
37.1	210.0	150.0	250.0	4.4	22.2	146
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	1.7	26.0	59.0	32.0	22.0	76.0

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
6211C3	6211C3	466

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

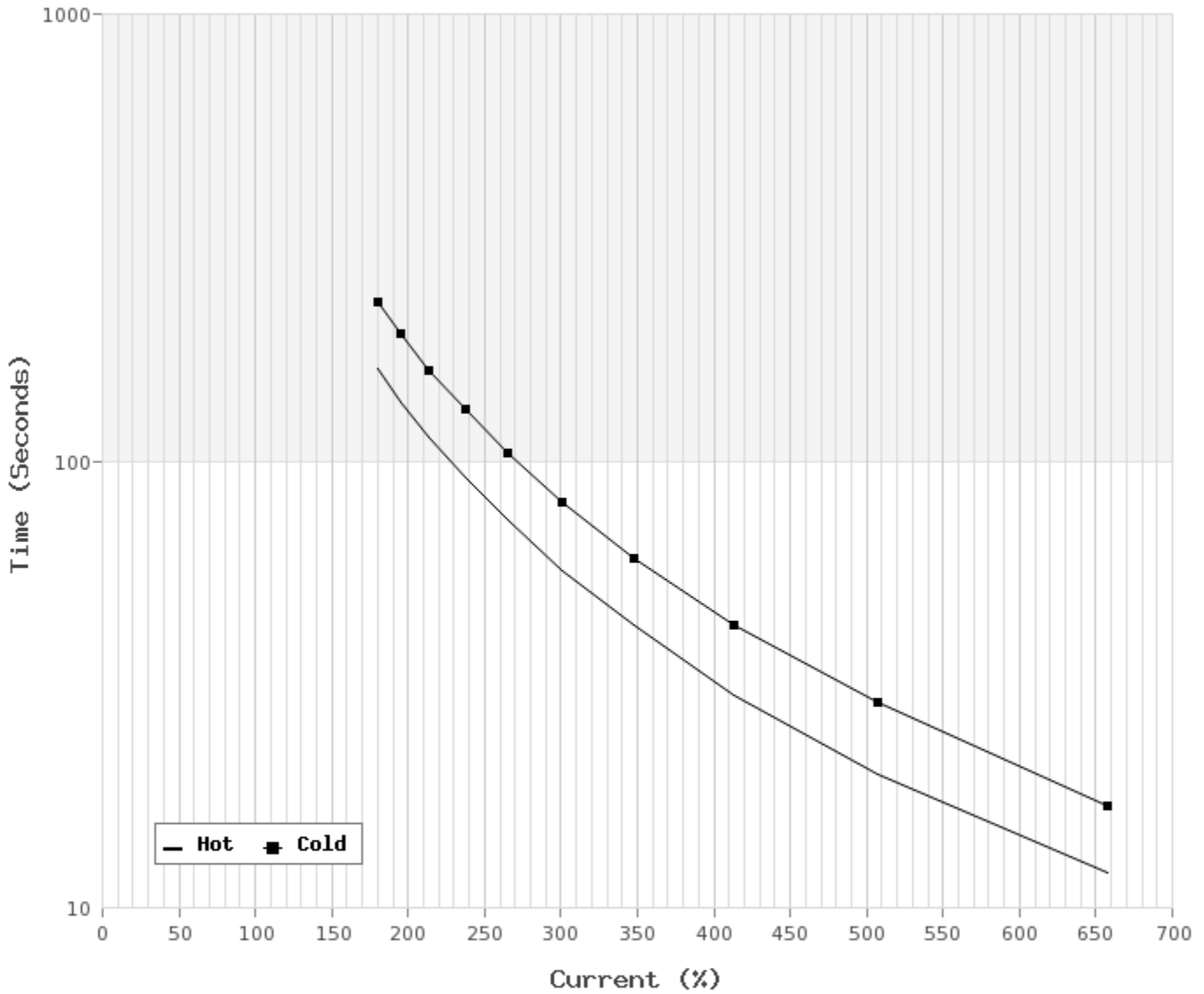


3 LEAD SINGLE VOLTAGE DELTA					
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD_3D

Thermal Limit Curves

Motor Type: AEHHXU		Catalogue No: XH02525		Family: Optim TEXP	
HP	25	Safe Stall Time		Full Load A	0.0 / 22.2 A
Voltage	0 / 575V 60Hz	Hot	22.0 s	Locked Rotor A	658 %
RPM	3600	Cold	32.0 s	Locked Rotor A	0.0 / 146 A



T-N and I-N Curves

Motor Type: AEHHXU		Catalogue No: XH02525		Family: Optim TEXP	
HP	25	Full Load T	37.1 lb-ft	Full Load A	22.2 A
Voltage	575V 60Hz	Locked Rotor T	210.0 %	Locked Rotor A	146.0 A
RPM	3600	Pull Up T	150.0 %	Break Down T	250.0 %

