

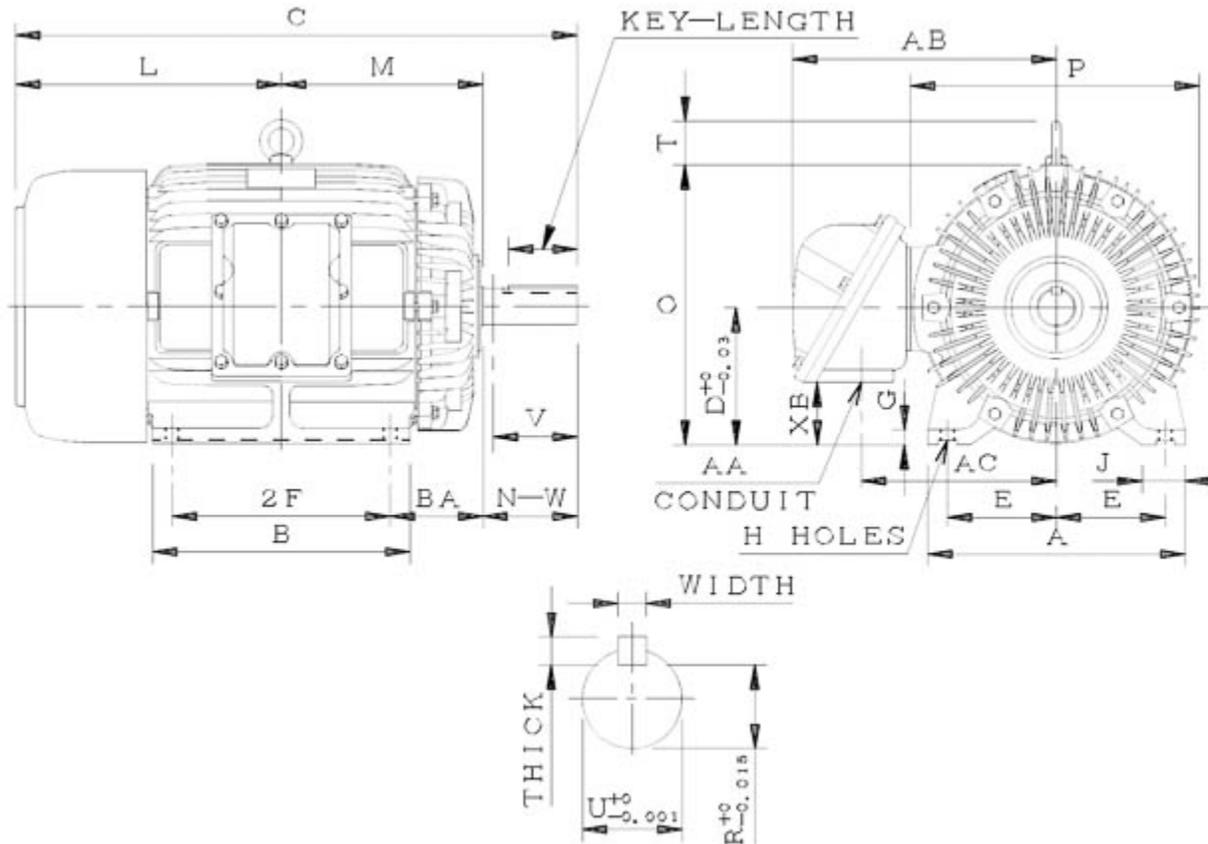
Technical Documentation

XC01065
Optim TEXP | AEHHXV

Date: December 1, 2016

Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
XC01065	AEHHXV	10	6	7.5	Continuous	575 V	60	1200



AEHHXV-SMP-4 1 0

Frame Size	Mounting					A	B	C	CD	D	
	E	2F	2F2	H	BA						
256T	5	10		0.53	4.25	11.8	11.8	25.52		6.25	
G	J	K	L	M	O	P	T	Key			Keyseat
0.65	1.95		12.27	9.15	12.8	13.15	2	Width	Thick	Length	R
								0.375	0.375	2.91	1.416
Terminal Housing				Aux Box		C/D Flange					
AA	AB	AC	XB	AE	AX	BB	AH	AK	BD	AJ	BF
NPT11/4"	12.24	8.94	2.83								
Shaft Extension			Bearings		Approx. Weight Lbs	SPL dBA/3ft	Ins. Class	S.F.	Drive Method	Dimensions	
N-W	U	V	DE	NDE							
4	1.625	3.9	6309ZZ	6307ZZ	376	57.0	F	1.15	Direct Coupling / Belt Drive	Inches	

Technical Data Sheet

Motor Type: AEHHXV

Catalogue No: XC01065

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
10	6	1170	256T	575	60	3
Enclosure	Ins. Class	Service Factor	Time Rating	NEMA Design	Rated Amb.	Rated Altitude
TEXP	F	1.15	Continuous	C	°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.					
91.0	89.5	92.0	91.0	81.5	76.5	65.0
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
44.9	260.0	210.0	280.0	4.4	10.1	65
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	
H	2.9	137.0	333.7	26.0	18.0	57.0

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
6309ZZ	6307ZZ	376

Hazardous Locations Information

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

Connection Diagram

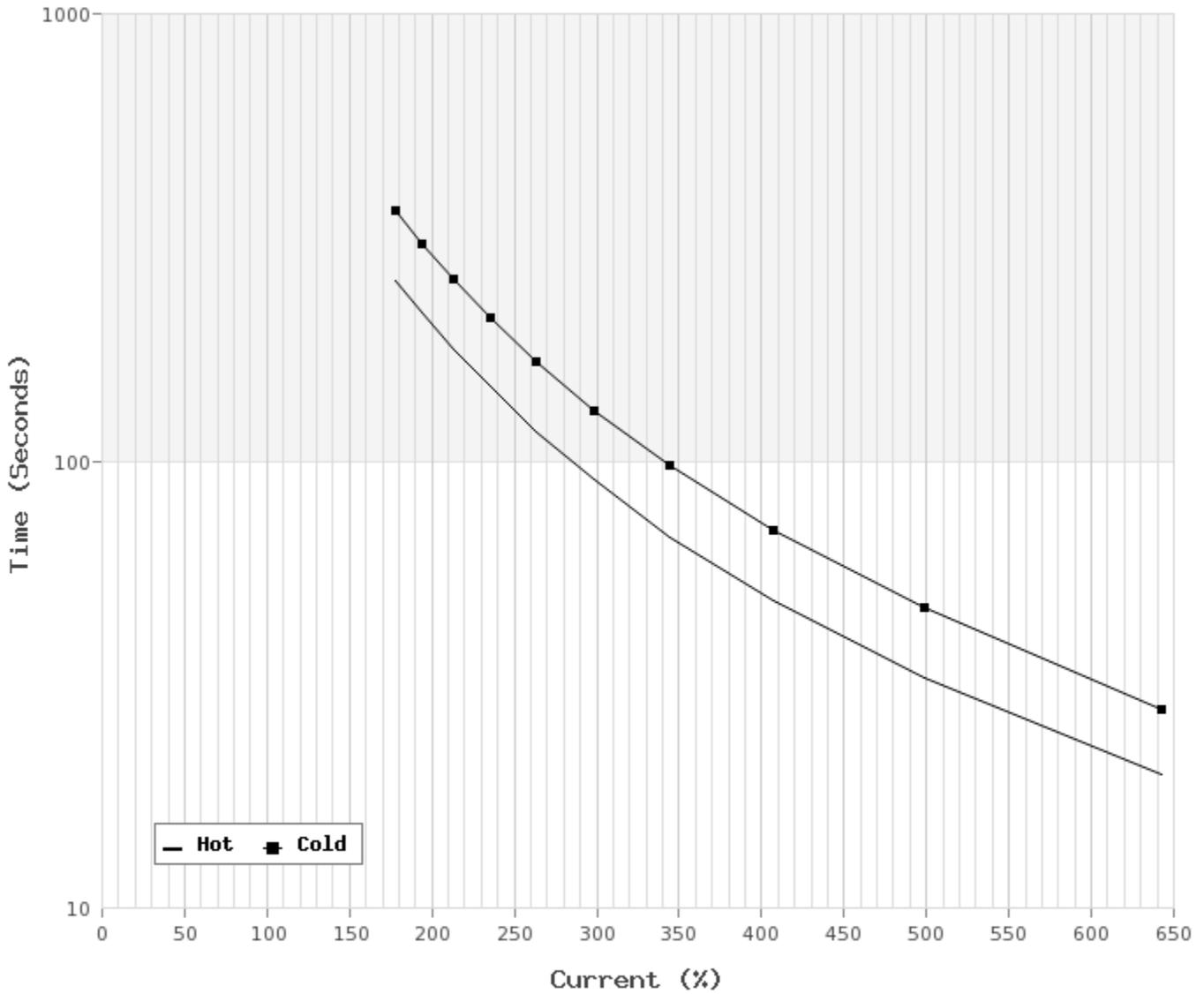


3 LEAD SINGLE VOLTAGE DELTA					
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD_3D

Thermal Limit Curves

Motor Type: AEHHXV		Catalogue No: XC01065		Family: Optim TEXP	
HP	10	Safe Stall Time		Full Load A	0.0 / 10.1 A
Voltage	0 / 575V 60Hz	Hot	18.0 s	Locked Rotor A	644 %
RPM	1200	Cold	26.0 s	Locked Rotor A	0.0 / 65 A



T-N and I-N Curves

Motor Type: AEHHXV		Catalogue No: XC01065		Family: Optim TEXP	
HP	10	Full Load T	44.9 lb-ft	Full Load A	10.1 A
Voltage	575V 60Hz	Locked Rotor T	260.0 %	Locked Rotor A	65.0 A
RPM	1200	Pull Up T	210.0 %	Break Down T	280.0 %

