

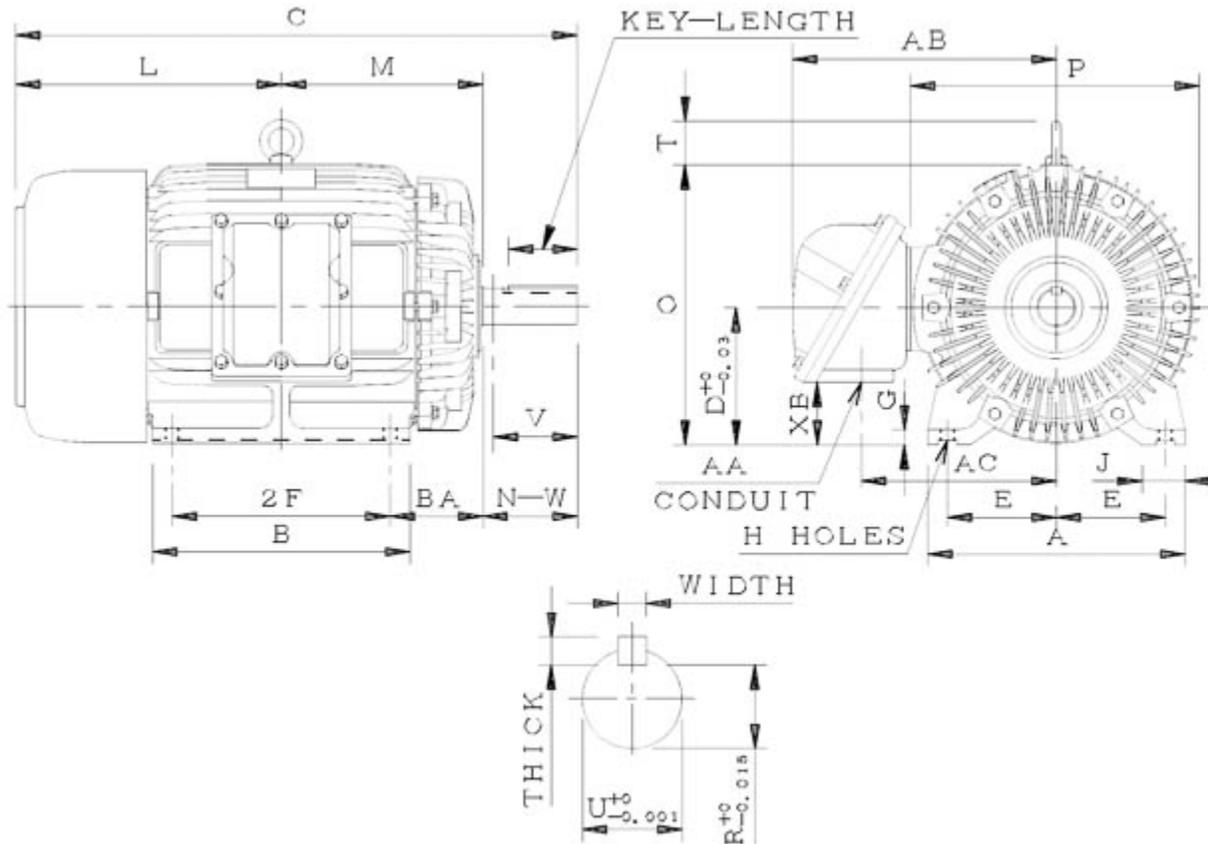
Technical Documentation

**XC01545**  
**Optim TEXP | AEHHXV**

Date: December 1, 2016

**Dimensional Drawing**

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
XC01545	AEHHXV	15	4	11	Continuous	575 V	60	1800



AEHHXV-SMP-4 1 0

Frame Size	Mounting					A	B	C	CD	D	
	E	2F	2F2	H	BA						
254T	5	8.25		0.53	4.25	11.8	9.85	23.78		6.25	
G	J	K	L	M	O	P	T	Key			Keyseat
0.65	1.95		11.41	8.3	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	330	64.0	F	1.15	Direct Coupling / Belt Drive	Inches	

### Technical Data Sheet

Motor Type: AEHHXV

Catalogue No: XC01545

#### Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
15	4	1770	254T	575	60	3
Enclosure	Ins. Class	Service Factor	Time Rating	NEMA Design	Rated Amb.	Rated Altitude
TEXP	F	1.15	Continuous	B	°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.					
92.4	91.0	92.5	92.0	85.0	82.0	73.0
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
44.5	200.0	145.0	275.0	5.0	14.3	93
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	2.2	75.0	145.0	17.0	12.0	64.0

#### 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

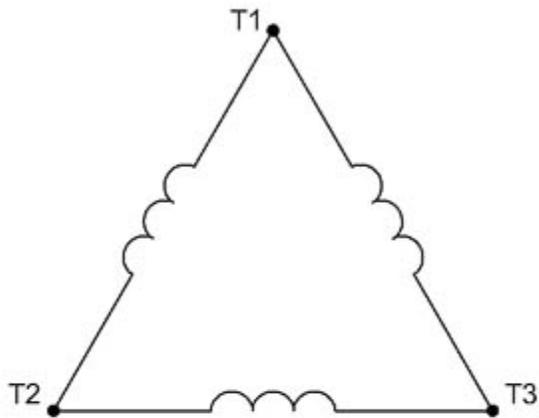
#### Additional Information

Bearings		Approx. Weight
DE	NDE	lbs
6309ZZ	6307ZZ	330

#### 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**

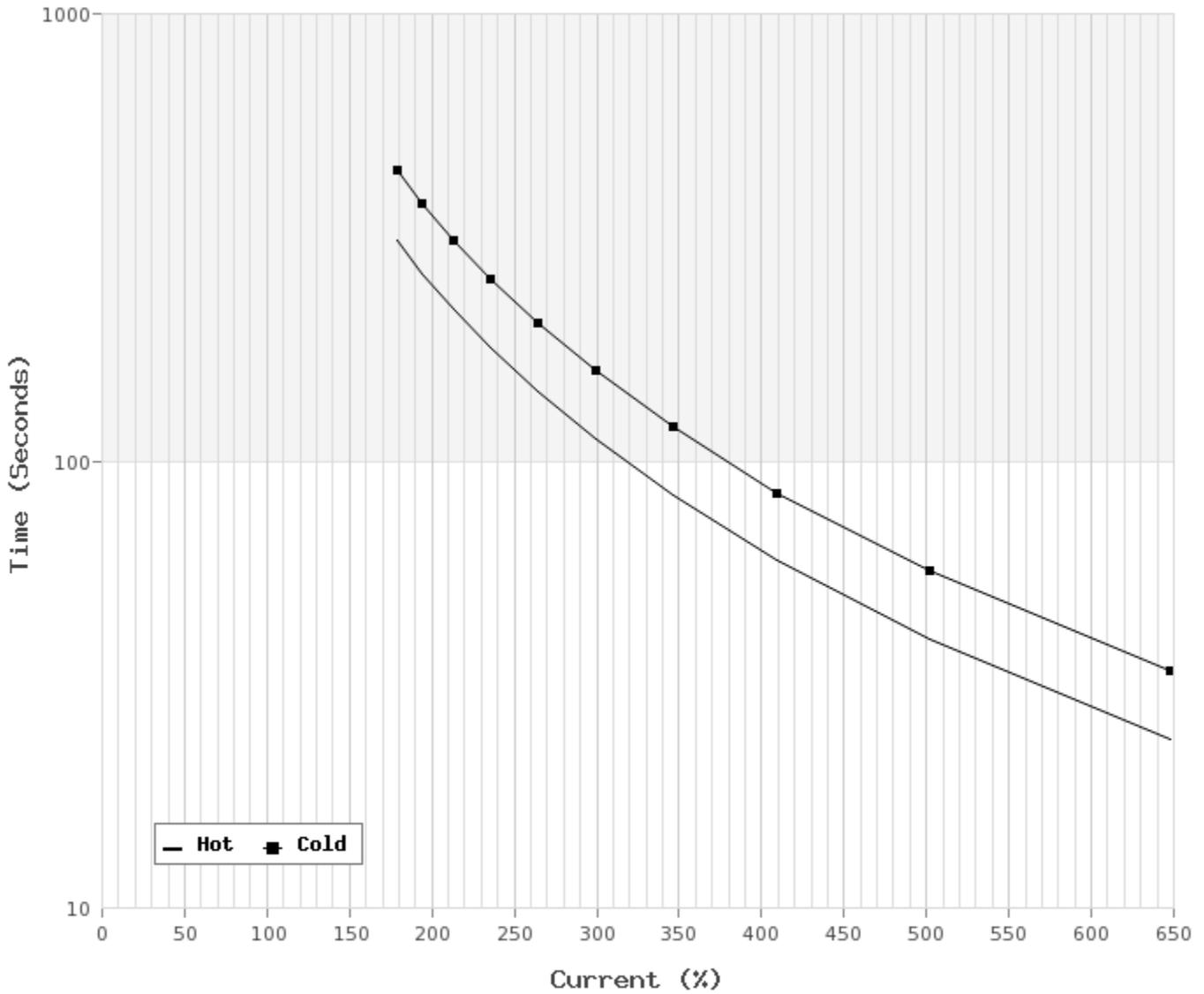


3 LEAD SINGLE VOLTAGE DELTA					
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD\_3D

**Thermal Limit Curves**

Motor Type: AEHHXV		Catalogue No: XC01545		Family: Optim TEXP	
HP	15	Safe Stall Time		Full Load A	0.0 / 14.3 A
Voltage	0 / 575V 60Hz	Hot	12.0 s	Locked Rotor A	650 %
RPM	1800	Cold	17.0 s	Locked Rotor A	0.0 / 93 A



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

Motor Type: AEHHXV		Catalogue No: XC01545		Family: Optim TEXP	
HP	15	Full Load T	44.5 lb-ft	Full Load A	14.3 A
Voltage	575V 60Hz	Locked Rotor T	200.0 %	Locked Rotor A	93.0 A
RPM	1800	Pull Up T	145.0 %	Break Down T	275.0 %

