

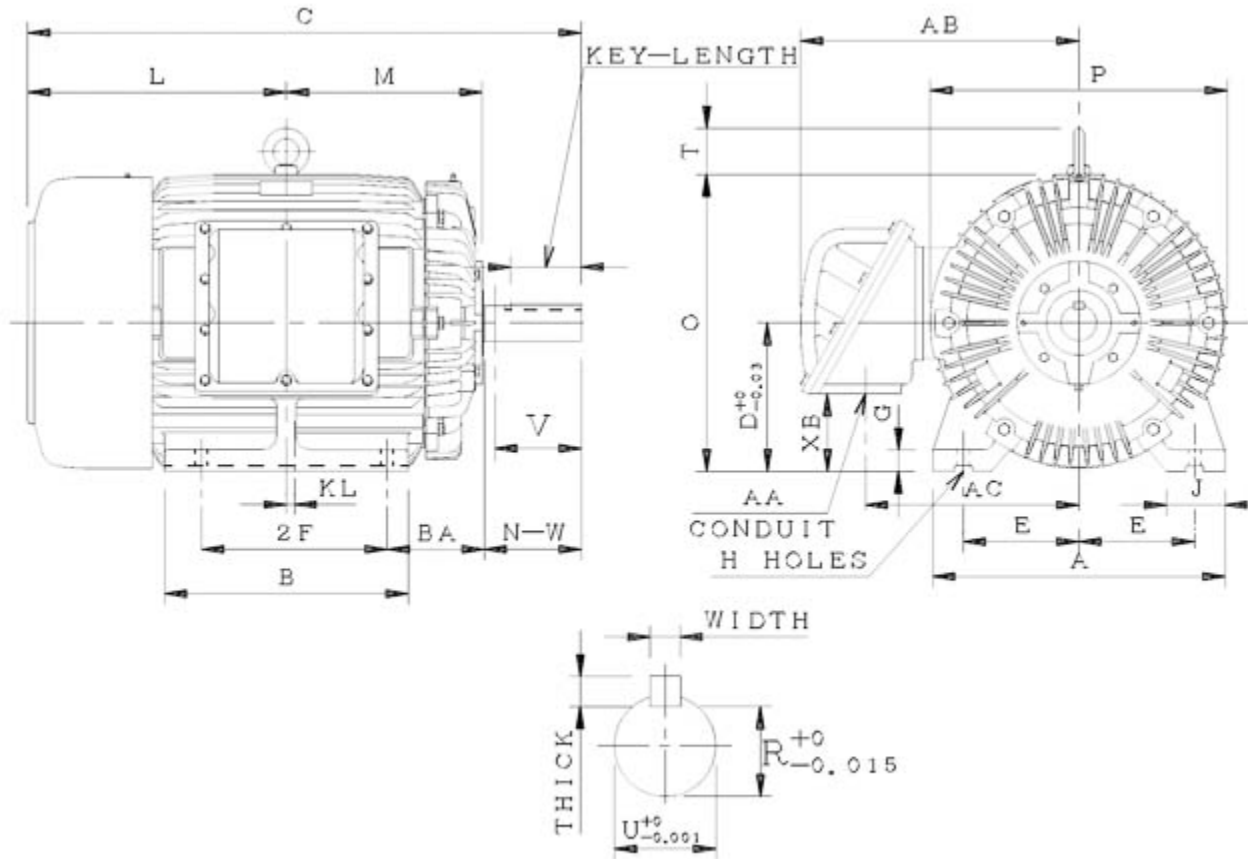
Technical Documentation

XH0258
Optim TEXP | AEHHXU

Date: July 10, 2017

Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
XH0258	AEHHXU	25	8	19	Continuous	230 / 460 V	60	900



AEHHXU-SMP-4 1 0

Frame Size	Mounting					A	B	C	CD	D	
	E	2F	2F2	H	BA						
326T	6.25	12		0.66	5.25	15.75	14.35	31.42		8	
G	J	K	L	M	O	P	T	Key			Keyseat
1.1	3.15		14.92	11.04	16.22	16.54	2.36	Width	Thick	Length	R
								0.5	0.5	3.91	1.845
Terminal Housing				Aux Box		C/D Flange					
AA	AB	AC	XB	AE	AX	BB	AH	AK	BD	AJ	BF
NPT2"	16.18	12.17	3.31								
Shaft Extension			Bearings		Approx. Weight Lbs	SPL dBA/3ft	Ins. Class	S.F.	Drive Method	Dimensions	
N-W	U	V	DE	NDE							
5.25	2.125	5.15	6312	6212	781	65	F	1.15	Direct Coupling / Belt Drive	Inches	

Technical Data Sheet

Motor Type: AEHHXU

Catalogue No: XH0258

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
25	8	875	326T	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 °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.					
90.2	88.5	91.0	91.0	79.5	76.0	66.5
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
150	200	175	220	27.0 / 13.5	65.3 / 32.6	365 / 183
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	12.373	647	825	30	21	65

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
6312	6212	781

Hazardous Locations Information

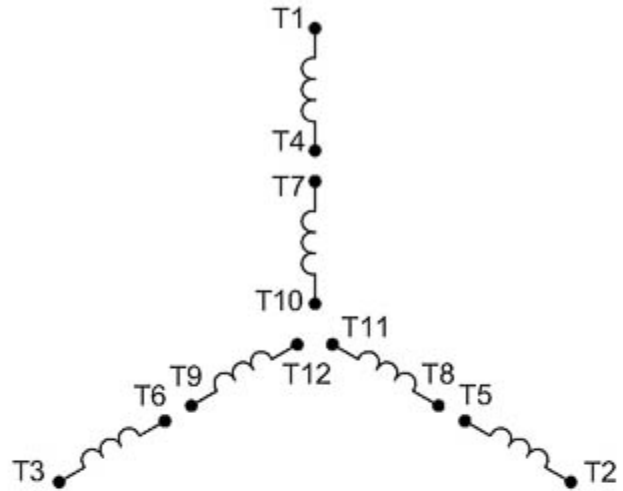
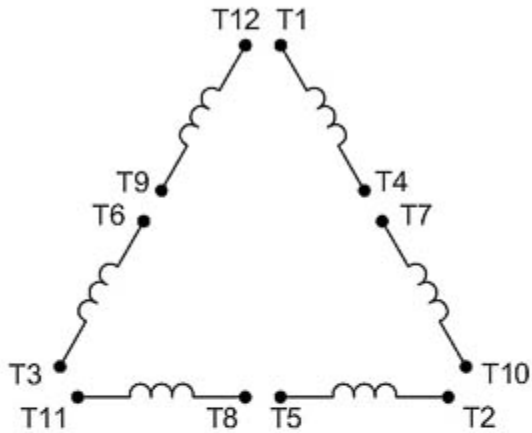
CSA/UL Certified	
Class I, Div 1, Groups D; Class II, Div 1, Groups E, F & G Class I, Zone 1, Groups IIA; Class II, Div 1, Groups E, F & G	
Temp Code (Sinewave / VFD)	T3B / T3B

Nameplate Drawing

Optim TEXP

TYPE	AEHHXU	CAT. NO.	XH0258		
OUTPUT	25 HP 19 kW	FRAME	326T	TEXP	
R.P.M.	875	POLE	8	INS.	F
VOLTS	230 / 460	PHASE	3	Hz	60
AMPS	65.3 / 32.6	CODE	G	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 90.2		MIN. EFF. 88.5	
BEARINGS	6312 / 6212			RATING Cont.	
SER. NO.	TBD	DESIGN	C	WT. 781 LBS	
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	6-60Hz	60-90Hz	1.0 Only	

Connection Diagram

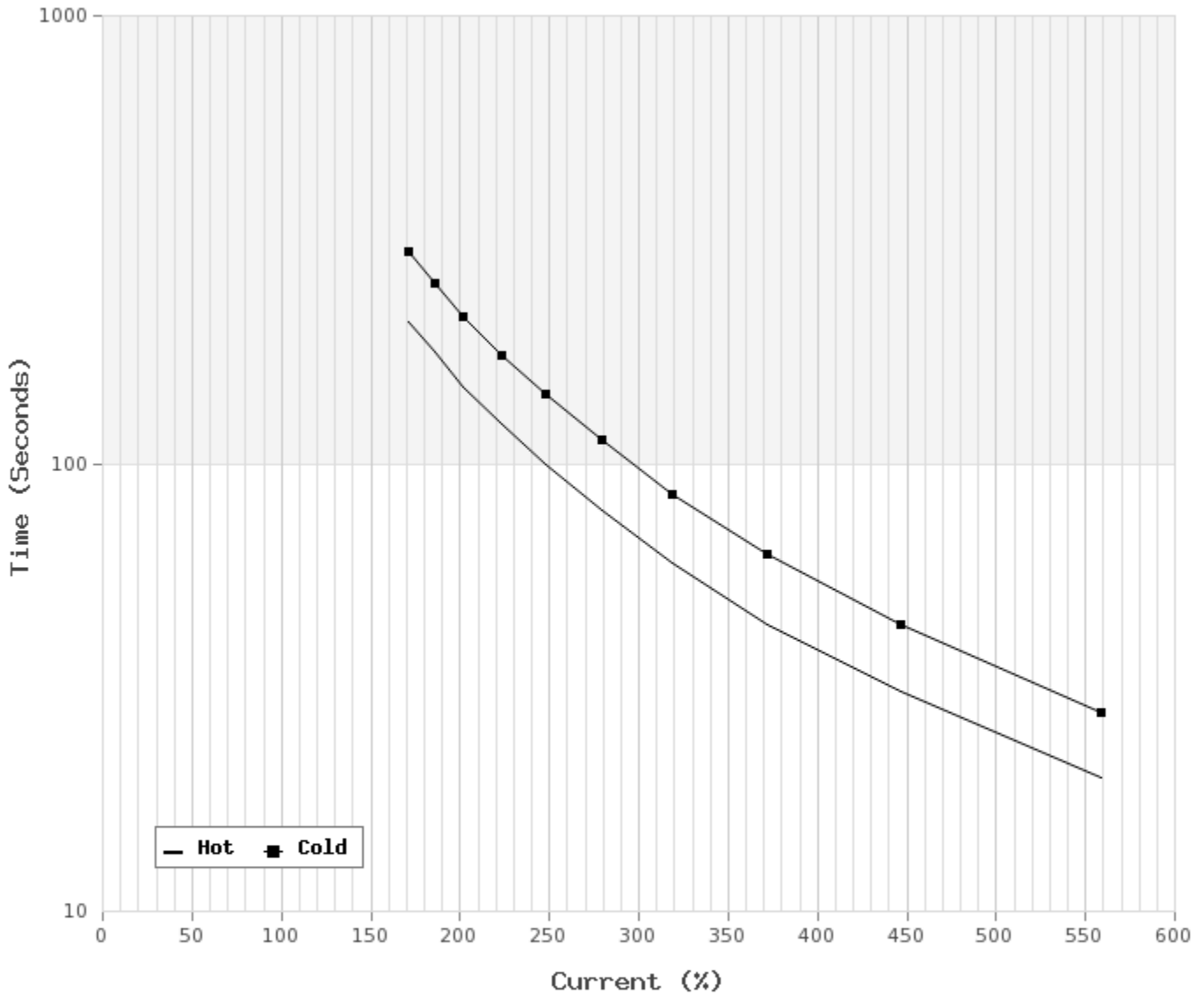


12 LEAD DUAL VOLTAGE WYE/DELTA						
VOLTAGE	CONNECTION		L1	L2	L3	JOIN
HIGH	START	WYE	1	2	3	4&7,5&8,6&9 10&11&12
	RUN	DELTA	1,12	2,10	3,11	4&7,5&8,6&9
LOW	START	2 WYE	1,7	2,8	3,9	4&5&6 10&11&12
	RUN	2 DELTA	1,6,7 12	2,4,8 10	3,5,9 11	

WD_12YD

Thermal Limit Curves

Motor Type: AEHHXU		Catalogue No: XH0258		Family: Optim TEXP	
HP	25	Safe Stall Time		Full Load A	65.3 / 32.6 A
Voltage	230 / 460V 60Hz	Hot	21 s	Locked Rotor A	559 / 561 %
RPM	900	Cold	30 s	Locked Rotor A	365.0 / 183 A



T-N and I-N Curves

Motor Type: AEHHXU		Catalogue No: XH0258		Family: Optim TEXP	
HP	25	Full Load T	150 lb-ft	Full Load A	65.3 / 32.6 A
Voltage	230 / 460V 60Hz	Locked Rotor T	200 %	Locked Rotor A	365.0 / 183.0 A
RPM	900	Pull Up T	175 %	Break Down T	220 %

