

Technical Documentation

XC00325C
Optim TEXP | AEHHXF

Date: May 28, 2018

Technical Data Sheet

Motor Type: AEHHXF

Catalogue No: XC00325C

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
3	2	3505	182TC	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 °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.					
87.5	85.5	88.5	87.0	90.0	87.0	79.5
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
4.5	295.0	245.0	340.0	0.9	2.9	26
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	
K	0.2	3.5	9.6	17.0	12.0	68.0

VFD Duty Information

Speed Range			VFD		S.F.
Constant Torque	Variable Torque	Constant Power	Carrier	Type	
12-60Hz	3-60Hz	60-90Hz	≤ 5 kHz	VPWM or CPWM	1.0 Only

Additional Information

Bearings		Approx. Weight
DE	NDE	lbs
6306ZZ	6306ZZ	108

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

Nameplate Drawing

Optim TEXP

TYPE	AEHHXF	CAT. NO.	XC00325C		
OUTPUT	3 HP 2.2 kW	FRAME	182TC	TEXP	
R.P.M.	3505	POLE	2	INS.	F
VOLTS	575	PHASE	3	Hz	60
AMPS	2.9	CODE	K	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 87.5		MIN. EFF. 85.5	
BEARINGS	6306ZZ / 6306ZZ			RATING Cont.	
SER. NO.	TBD	DESIGN	B	WT. 108 LBS	
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	12-60Hz	60-90Hz	1.0 Only	

Connection Diagram

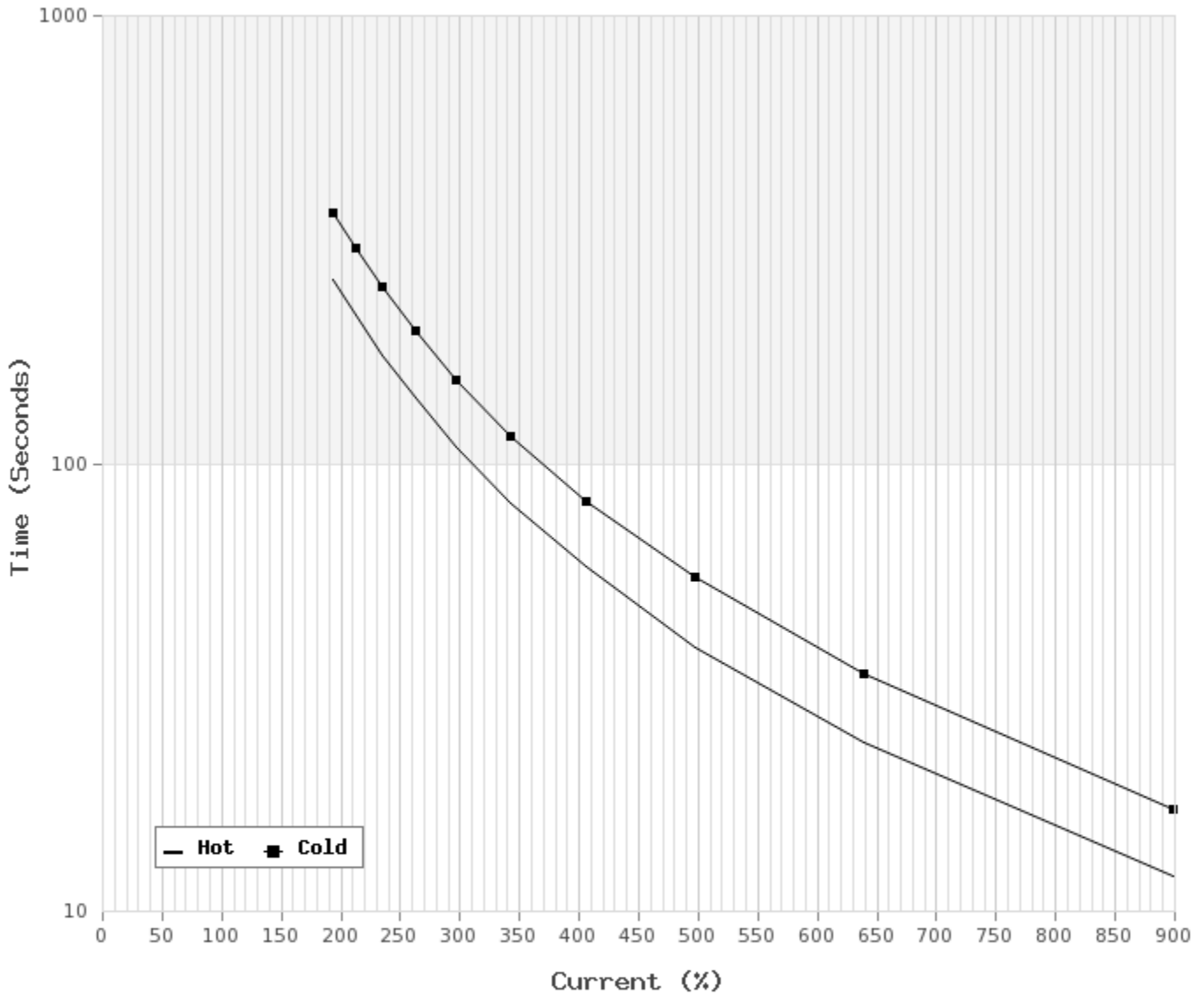


3 LEAD		SINGLE VOLTAGE			WYE
VOLTAGE	CONN.	L1	L2	L3	
-	WYE	1	2	3	

WD_3Y

Thermal Limit Curves

Motor Type: AEHHXF		Catalogue No: XC00325C		Family: Optim TEXP	
HP	3	Safe Stall Time		Full Load A	0.0 / 2.9 A
Voltage	0 / 575V 60Hz	Hot	12.0 s	Locked Rotor A	912 %
RPM	3600	Cold	17.0 s	Locked Rotor A	0.0 / 26 A



T-N and I-N Curves

Motor Type: AEHHXF		Catalogue No: XC00325C		Family: Optim TEXP	
HP	3	Full Load T	4.5 lb-ft	Full Load A	2.9 A
Voltage	575V 60Hz	Locked Rotor T	295.0 %	Locked Rotor A	26.0 A
RPM	3600	Pull Up T	245.0 %	Break Down T	340.0 %

