

Technical Documentation

XC00265C
Optim TEXP | AEHHXF

Date: May 28, 2018

Technical Data Sheet

Motor Type: AEHHXF

Catalogue No: XC00265C

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
2	6	1165	184TC	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.					
88.5	86.5	89.0	87.0	69.0	62.0	50.0
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
9.0	180.0	150.0	275.0	1.4	2.5	20
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	
L	0.4	30.0	185.0	95.0	67.0	55.0

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	120

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.	XC00265C		
OUTPUT	2 HP 1.5 kW	FRAME	184TC	TEXP	
R.P.M.	1165	POLE	6	INS.	F
VOLTS	575	PHASE	3	Hz	60
AMPS	2.5	CODE	L	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 88.5		MIN. EFF. 86.5	
BEARINGS	6306ZZ / 6306ZZ			RATING Cont.	
SER. NO.	TBD	DESIGN	B	WT. 120 LBS	
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	12-60Hz	60-90Hz	1.0 Only	

Connection Diagram

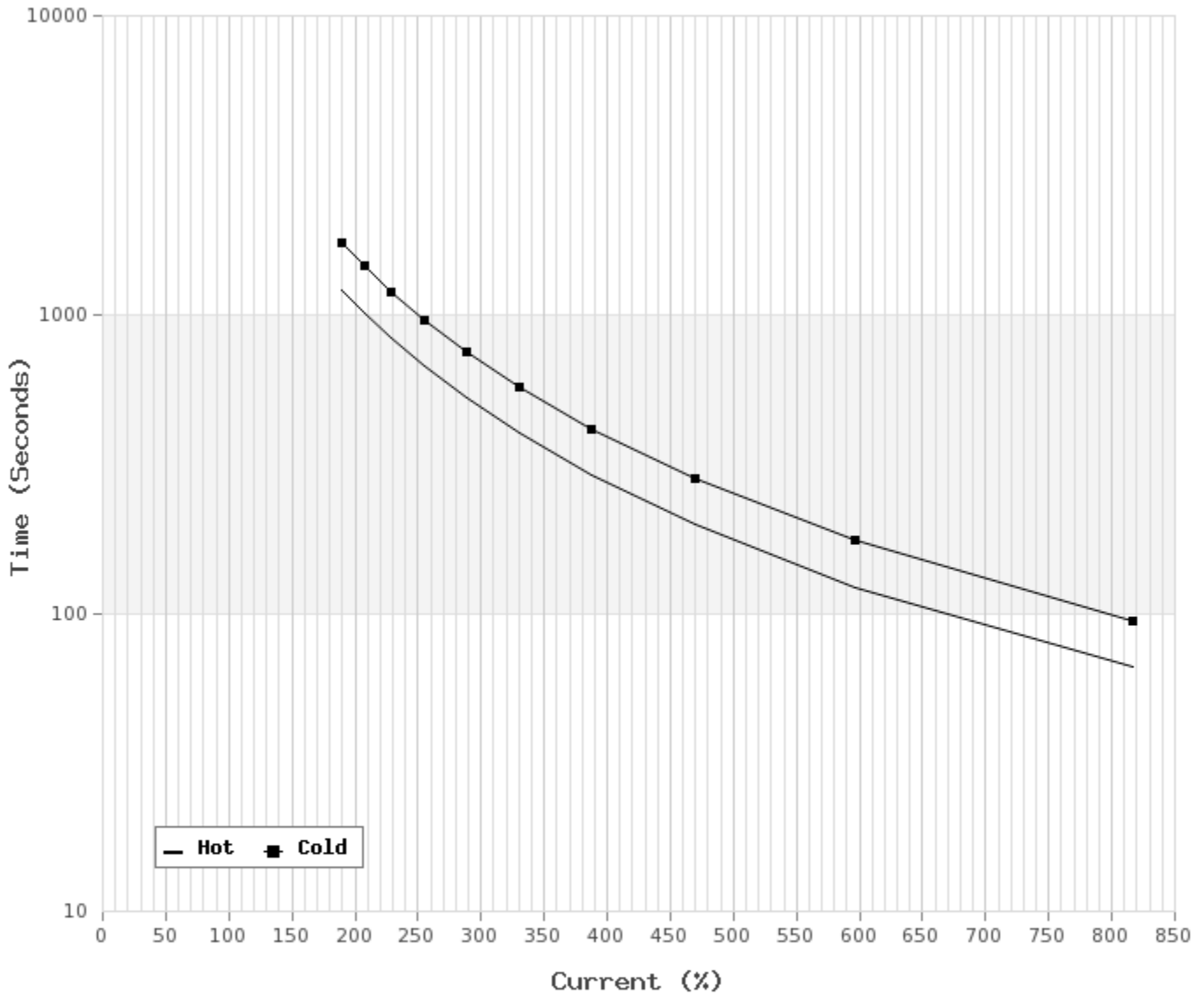


3 LEAD		SINGLE VOLTAGE			WYE
VOLTAGE	CONN.	L1	L2	L3	
-	WYE	1	2	3	

WD_3Y

Thermal Limit Curves

Motor Type: AEHHXF		Catalogue No: XC00265C		Family: Optim TEXP	
HP	2	Safe Stall Time		Full Load A	0.0 / 2.5 A
Voltage	0 / 575V 60Hz	Hot	67.0 s	Locked Rotor A	816 %
RPM	1200	Cold	95.0 s	Locked Rotor A	0.0 / 20 A



T-N and I-N Curves

Motor Type: AEHHXF		Catalogue No: XC00265C		Family: Optim TEXP	
HP	2	Full Load T	9.0 lb-ft	Full Load A	2.5 A
Voltage	575V 60Hz	Locked Rotor T	180.0 %	Locked Rotor A	20.0 A
RPM	1200	Pull Up T	150.0 %	Break Down T	275.0 %

