

Technical Documentation

XH04065C

Optim TEXP | AEHHXF

Date: May 28, 2018

Technical Data Sheet

Motor Type: AEHHXF

Catalogue No: XH04065C

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
40	6	1180	364TC	575	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.					
94.1	93.0	94.0	93.0	86.0	83.5	76.0
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
178.0	220.0	190.0	220.0	12.1	37.0	232
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	17.9	503.0	1067.0	33.0	23.0	65.0

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
6313	6213	946

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	AEHHXF	CAT. NO.	XH04065C		
OUTPUT	40 HP 30 kW	FRAME	364TC	TEXP	
R.P.M.	1180	POLE	6	INS.	F
VOLTS	575	PHASE	3	Hz	60
AMPS	37.0	CODE	G	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 94.1		MIN. EFF. 93.0	
BEARINGS	6313 / 6213			RATING Cont.	
SER. NO.	TBD	DESIGN	C	WT. 946 LBS	
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	6-60Hz	60-90Hz	1.0 Only	

Connection Diagram

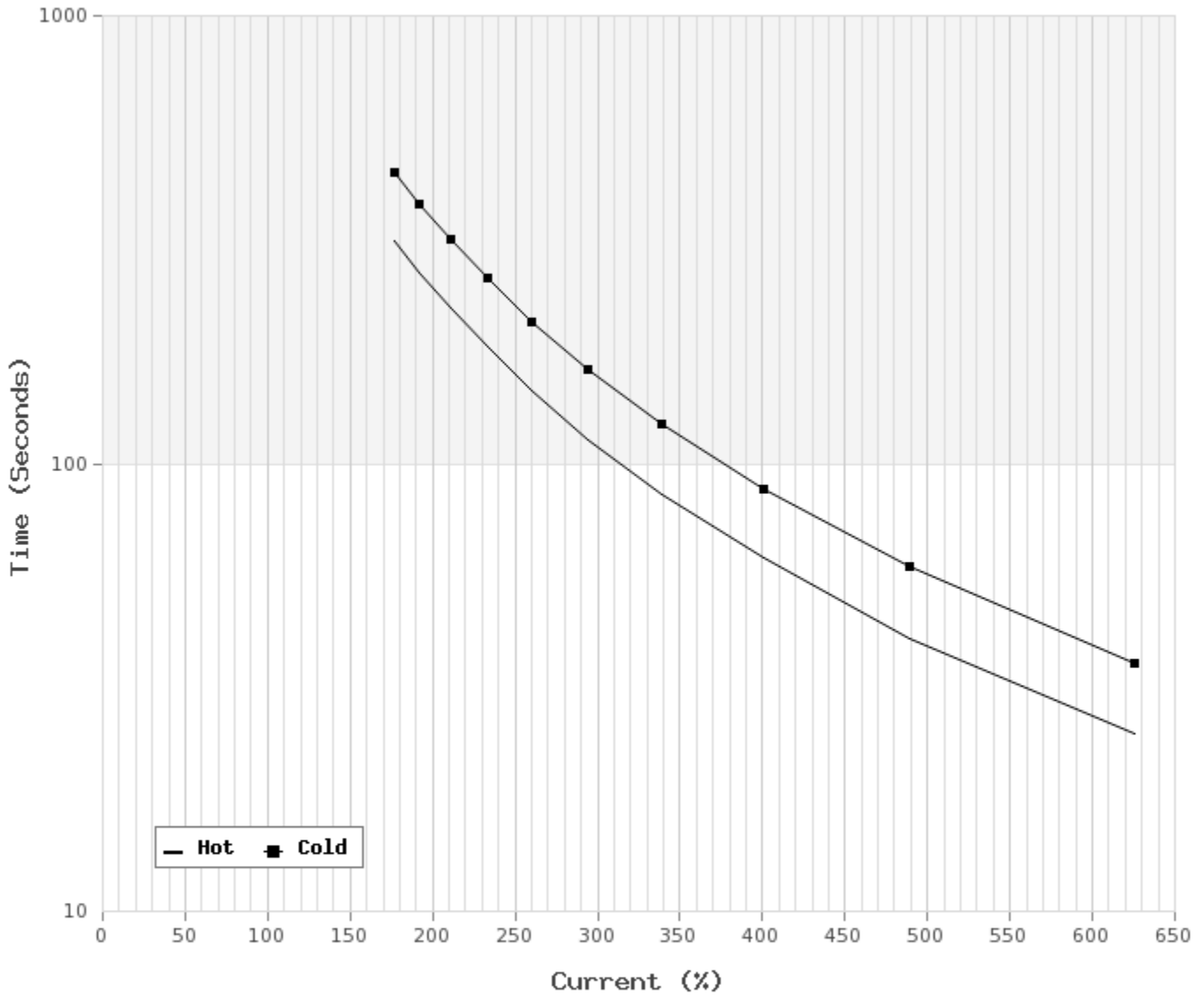


3 LEAD SINGLE VOLTAGE DELTA					
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD_3D

Thermal Limit Curves

Motor Type: AEHHXF		Catalogue No: XH04065C		Family: Optim TEXP	
HP	40	Safe Stall Time		Full Load A	0.0 / 37.0 A
Voltage	0 / 575V 60Hz	Hot	23.0 s	Locked Rotor A	627 %
RPM	1200	Cold	33.0 s	Locked Rotor A	0.0 / 232 A



T-N and I-N Curves

Motor Type: AEHHXF		Catalogue No: XH04065C		Family: Optim TEXP	
HP	40	Full Load T	178.0 lb-ft	Full Load A	37.0 A
Voltage	575V 60Hz	Locked Rotor T	220.0 %	Locked Rotor A	232.0 A
RPM	1200	Pull Up T	190.0 %	Break Down T	220.0 %

