

Technical Documentation

XH03025C
Optim TEXP | AEHHXF

Date: May 28, 2018

Technical Data Sheet

Motor Type: AEHHXF

Catalogue No: XH03025C

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
30	2	3530	286TSC	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.					
92.4	91.0	93.0	93.0	92.0	91.5	88.0
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
44.6	195.0	140.0	230.0	4.6	26.4	174
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	2.0	30.0	73.0	24.0	17.0	77.0

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
6211C3	6211C3	502

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.	XH03025C		
OUTPUT	30 HP 22 kW	FRAME	286TSC	TEXP	
R.P.M.	3530	POLE	2	INS.	F
VOLTS	575	PHASE	3	Hz	60
AMPS	26.4	CODE	G	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 92.4		MIN. EFF. 91.0	
BEARINGS	6211C3 / 6211C3			RATING Cont.	
SER. NO.	TBD	DESIGN	B	WT. 502 LBS	
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	6-60Hz	60-90Hz	1.0 Only	

Connection Diagram

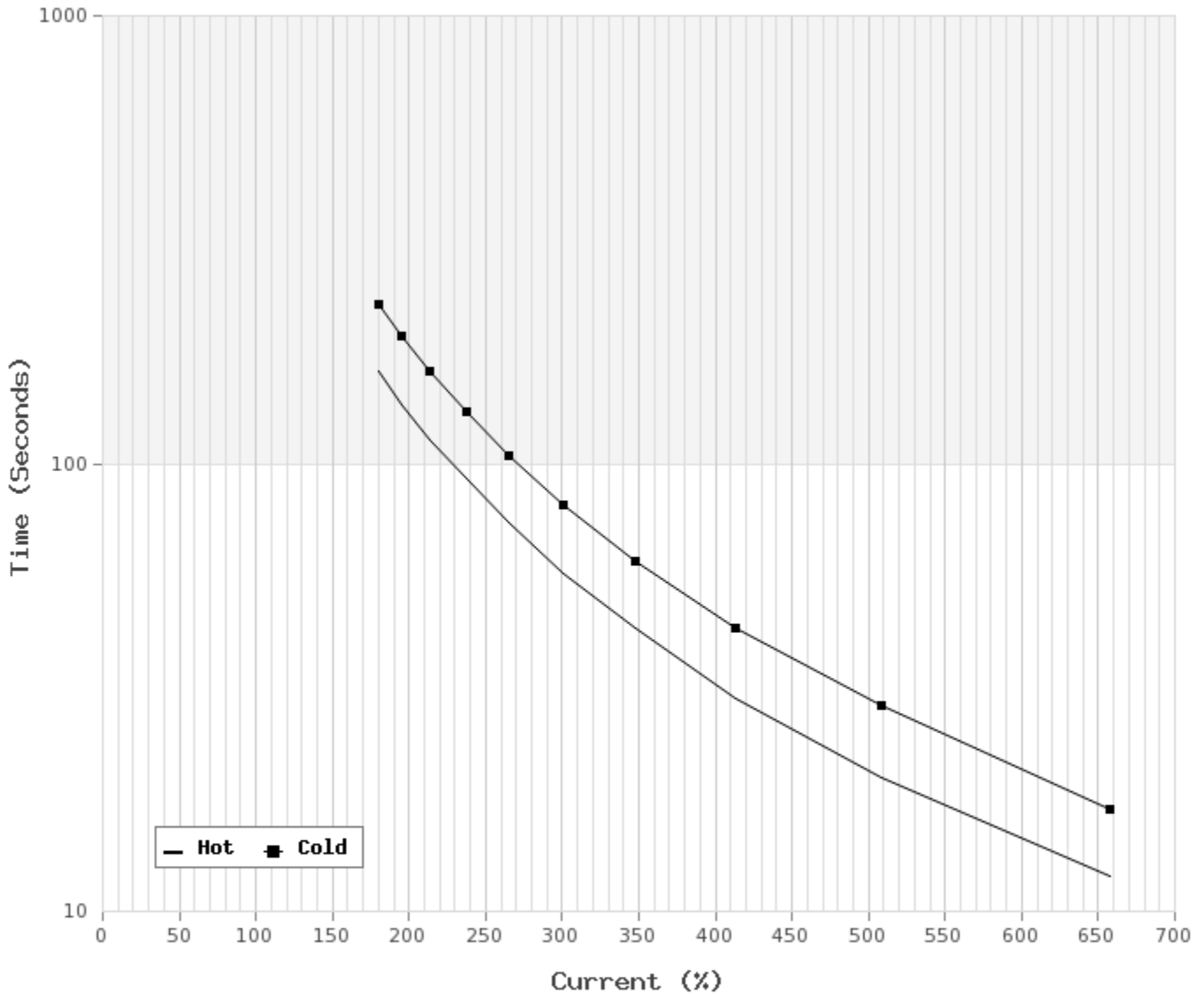


3 LEAD SINGLE VOLTAGE DELTA					
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD_3D

Thermal Limit Curves

Motor Type: AEHHXF		Catalogue No: XH03025C		Family: Optim TEXP	
HP	30	Safe Stall Time		Full Load A	0.0 / 26.4 A
Voltage	0 / 575V 60Hz	Hot	17.0 s	Locked Rotor A	658 %
RPM	3600	Cold	24.0 s	Locked Rotor A	0.0 / 174 A



T-N and I-N Curves

Motor Type: AEHHXF		Catalogue No: XH03025C		Family: Optim TEXP	
HP	30	Full Load T	44.6 lb-ft	Full Load A	26.4 A
Voltage	575V 60Hz	Locked Rotor T	195.0 %	Locked Rotor A	174.0 A
RPM	3600	Pull Up T	140.0 %	Break Down T	230.0 %

