

Technical Documentation

XH02545C

Optim TEXP | AEHHXF

Date: May 28, 2018

Technical Data Sheet

Motor Type: AEHHXF

Catalogue No: XH02545C

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
25	4	1775	284TC	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.					
93.6	92.4	94.0	93.5	85.0	83.0	77.0
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
73.9	200.0	135.0	220.0	6.4	23.5	146
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	4.4	122.0	220.0	17.0	12.0	68.0

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
6311ZZ	6310ZZ	488

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.	XH02545C		
OUTPUT	25 HP 19 kW	FRAME	284TC	TEXP	
R.P.M.	1775	POLE	4	INS.	F
VOLTS	575	PHASE	3	Hz	60
AMPS	23.5	CODE	G	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 93.6		MIN. EFF. 92.4	
BEARINGS	6311ZZ / 6310ZZ			RATING Cont.	
SER. NO.	TBD	DESIGN	B	WT. 488 LBS	
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	6-60Hz	60-90Hz	1.0 Only	

Connection Diagram

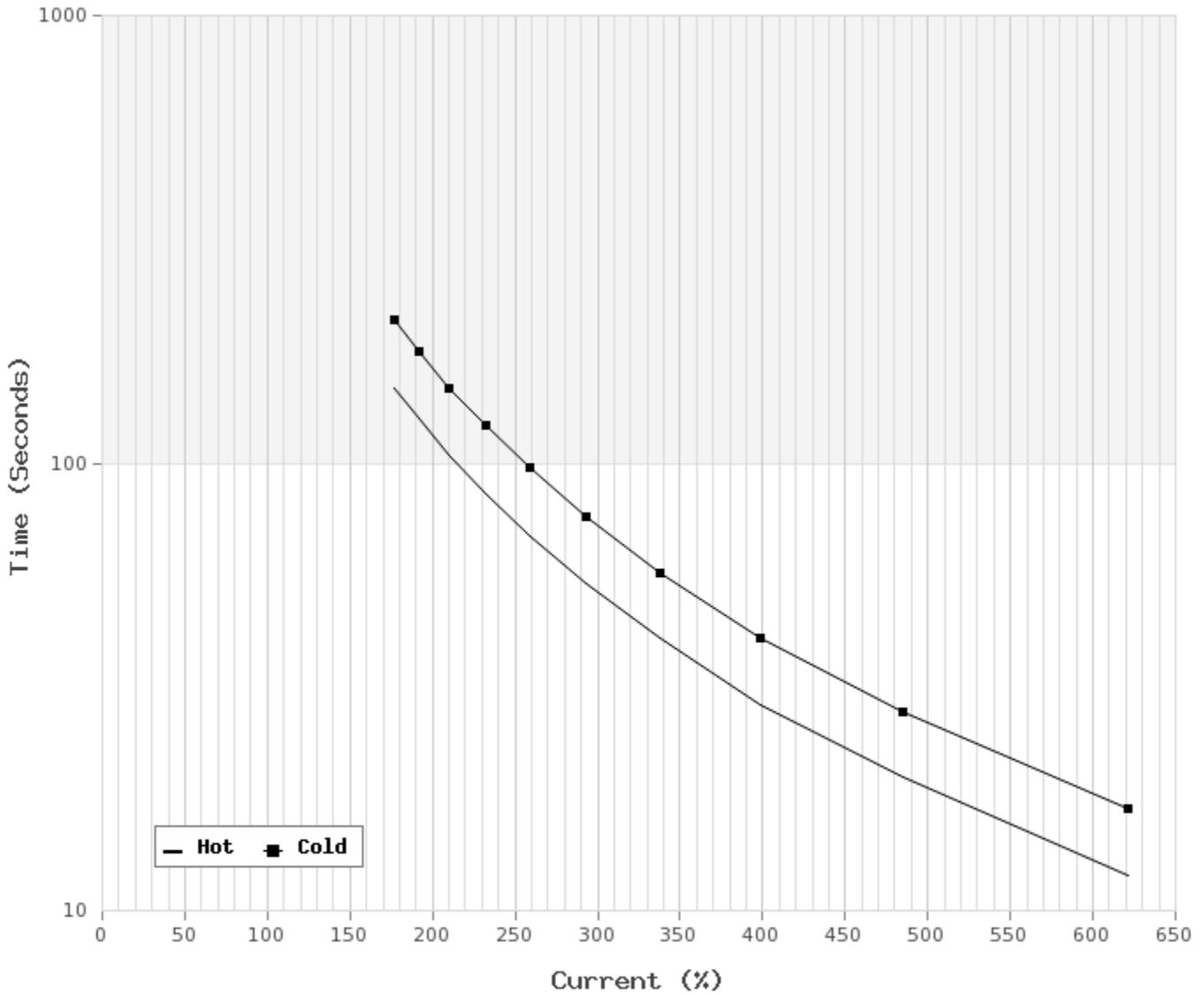


3 LEAD SINGLE VOLTAGE DELTA					
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD_3D

Thermal Limit Curves

Motor Type: AEHHXF		Catalogue No: XH02545C		Family: Optim TEXP	
HP	25	Safe Stall Time		Full Load A	0.0 / 23.5 A
Voltage	0 / 575V 60Hz	Hot	12.0 s	Locked Rotor A	620 %
RPM	1800	Cold	17.0 s	Locked Rotor A	0.0 / 146 A



T-N and I-N Curves

Motor Type: AEHHXF		Catalogue No: XH02545C		Family: Optim TEXP	
HP	25	Full Load T	73.9 lb-ft	Full Load A	23.5 A
Voltage	575V 60Hz	Locked Rotor T	200.0 %	Locked Rotor A	146.0 A
RPM	1800	Pull Up T	135.0 %	Break Down T	220.0 %

