

Technical Documentation

XC01545C

Optim TEXP | AEHHXF

Date: May 28, 2018

Technical Data Sheet

Motor Type: AEHHXF

Catalogue No: XC01545C

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
15	4	1770	254TC	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	92.5	92.0	85.0	82.0	73.0
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
44.5	200.0	145.0	275.0	5.0	14.3	93
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	2.2	75.0	145.0	17.0	12.0	64.0

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
6309ZZ	6307ZZ	330

Hazardous Locations Information

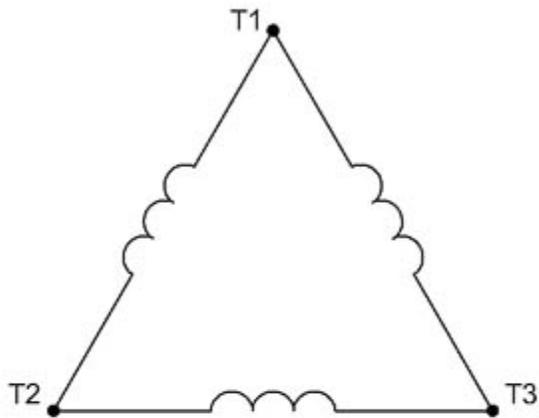
CSA/UL Certified	
Class I, Div 1, Groups C & D; Class II, Div 1, Groups E, F & G Class I, Zone 1, Groups IIB & IIA; Class II, Div 1, Groups E, F & G	
Temp Code (Sinewave / VFD)	T3B / T3B

Nameplate Drawing

Optim TEXP

TYPE	AEHHXF	CAT. NO.	XC01545C		
OUTPUT	15 HP 11 kW	FRAME	254TC	TEXP	
R.P.M.	1770	POLE	4	INS.	F
VOLTS	575	PHASE	3	Hz	60
AMPS	14.3	CODE	G	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 92.4		MIN. EFF. 91.0	
BEARINGS	6309ZZ / 6307ZZ			RATING Cont.	
SER. NO.	TBD	DESIGN	B	WT. 330 LBS	
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	6-60Hz	60-90Hz	1.0 Only	

Connection Diagram

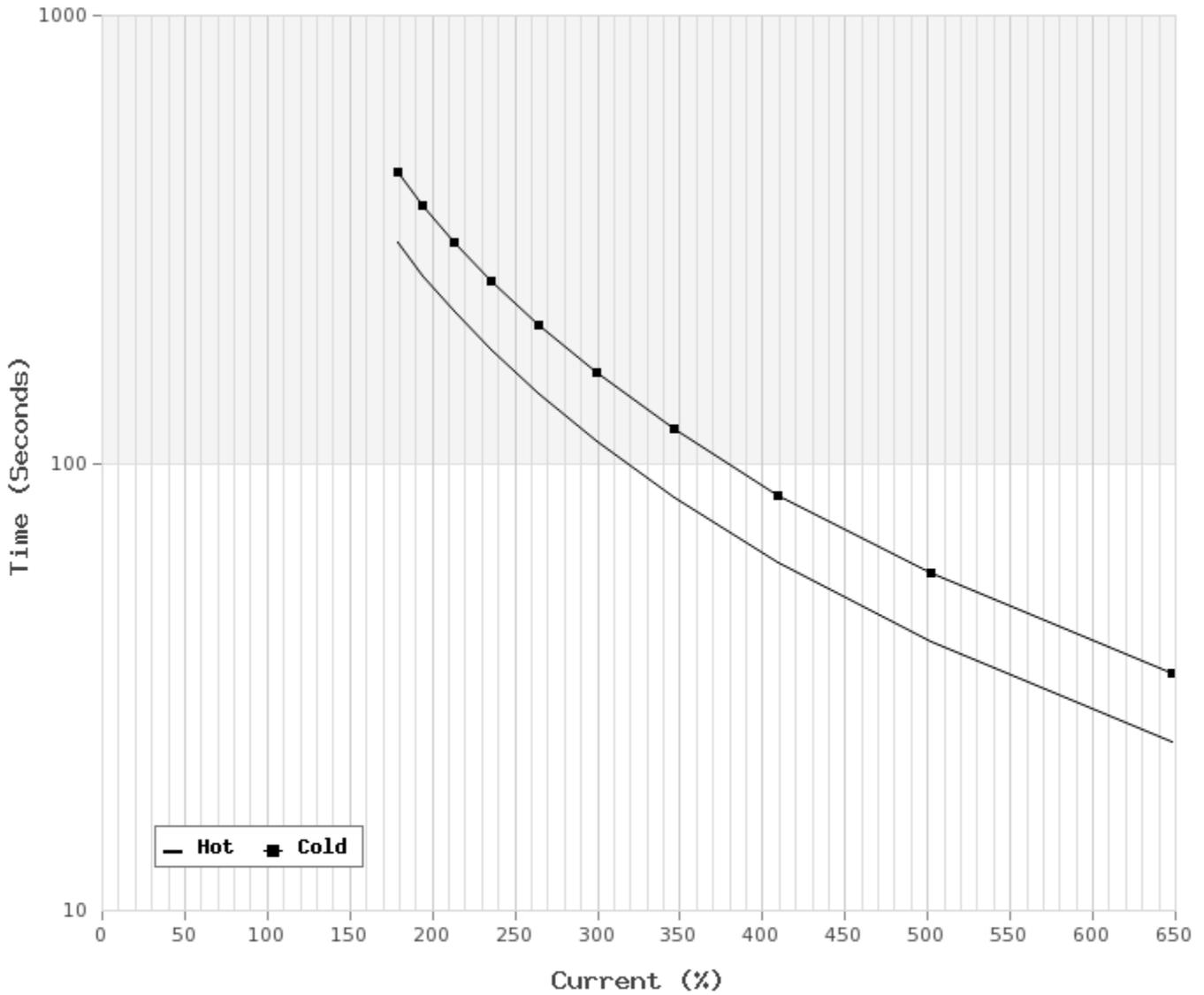


3 LEAD SINGLE VOLTAGE DELTA					
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD_3D

Thermal Limit Curves

Motor Type: AEHHXF		Catalogue No: XC01545C		Family: Optim TEXP	
HP	15	Safe Stall Time		Full Load A	0.0 / 14.3 A
Voltage	0 / 575V 60Hz	Hot	12.0 s	Locked Rotor A	650 %
RPM	1800	Cold	17.0 s	Locked Rotor A	0.0 / 93 A



T-N and I-N Curves

Motor Type: AEHHXF		Catalogue No: XC01545C		Family: Optim TEXP	
HP	15	Full Load T	44.5 lb-ft	Full Load A	14.3 A
Voltage	575V 60Hz	Locked Rotor T	200.0 %	Locked Rotor A	93.0 A
RPM	1800	Pull Up T	145.0 %	Break Down T	275.0 %

