

Technical Documentation

# **XC1/565C**

## **Optim TEXP | AEHHXF**

Date: May 28, 2018

### Technical Data Sheet

Motor Type: AEHHXF

Catalogue No: XC1/565C

#### Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
1.5	6	1170	182TC	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.					
87.5	85.5	87.0	83.5	63.0	54.0	42.0
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
6.7	230.0	225.0	370.0	1.4	2.0	16
NEMA KVA Code	Inertia (WR <sup>2</sup> )			Safe Stall Time (s)		Noise Level Sound Press. dB(A)
	Rotor (lb-ft <sup>2</sup> )	NEMA Load (lb-ft <sup>2</sup> )	Max. Allowable (lb-ft <sup>2</sup> )	Cold	Hot	
M	0.3	23.0	163.0	97.0	68.0	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	108

#### Hazardous Locations Information

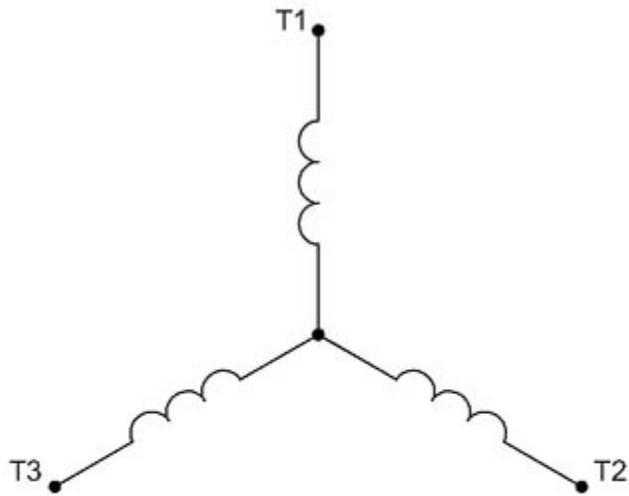
CSA/UL Certified	
Class I, Div 1, Groups C & D; Class II, Div 1, Groups E, F & G Class I, Zone 1, Groups IIB & IIA; Class II, Div 1, Groups E, F & G	
Temp Code (Sinewave / VFD)	T3B / T3B

**Nameplate Drawing**

# Optim TEXP

TYPE	AEHHXF	CAT. NO.	XC1/565C		
OUTPUT	1.5 HP 1.1 kW	FRAME	182TC	TEXP	
R.P.M.	1170	POLE	6	INS.	F
VOLTS	575	PHASE	3	Hz	60
AMPS	2.0	CODE	M	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 87.5		MIN. EFF. 85.5	
BEARINGS	6306ZZ / 6306ZZ			RATING Cont.	
SER. NO.	TBD	DESIGN	B	WT. 108 LBS	
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	12-60Hz	60-90Hz	1.0 Only	

**Connection Diagram**

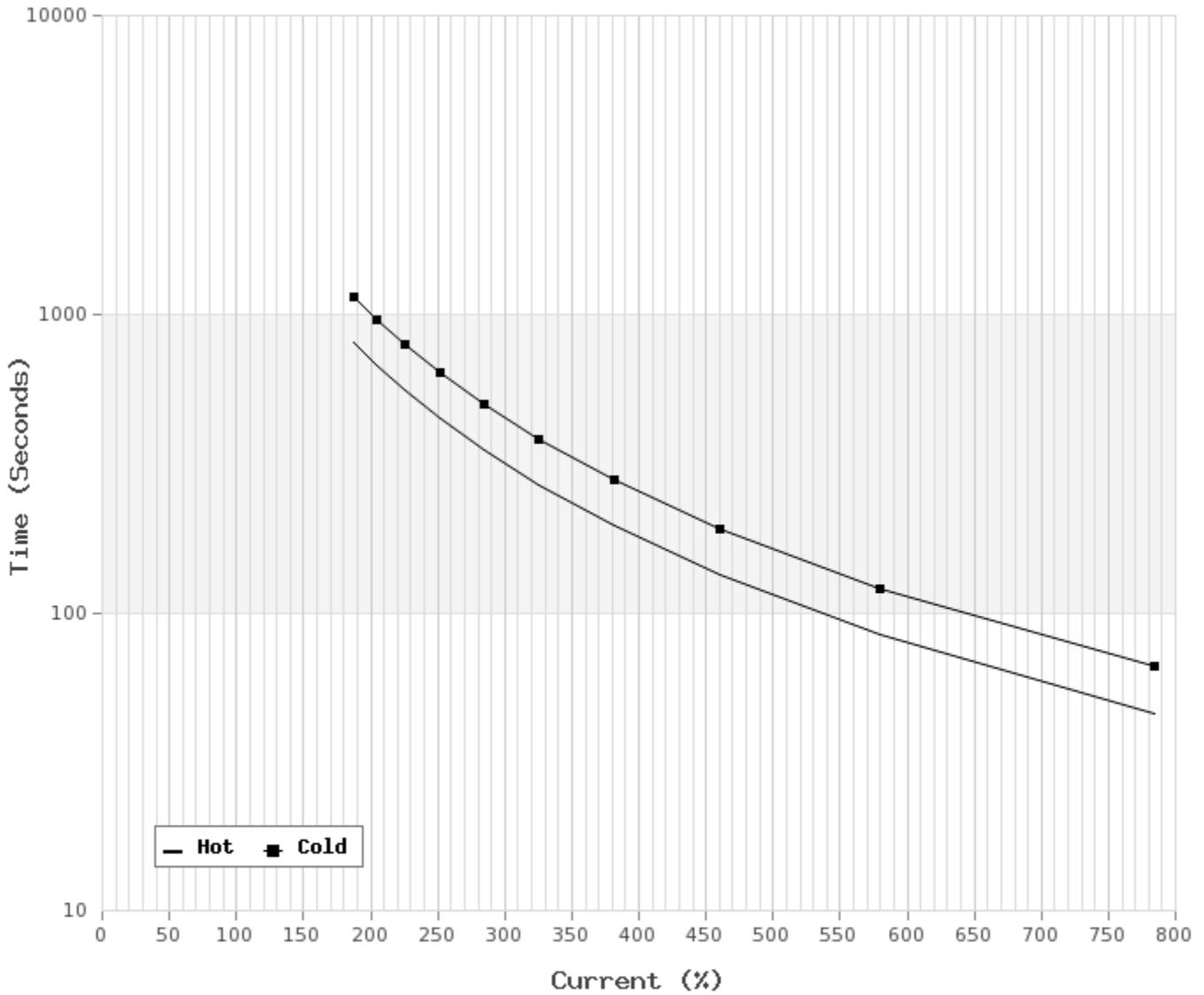


3 LEAD		SINGLE VOLTAGE			WYE
VOLTAGE	CONN.	L1	L2	L3	
-	WYE	1	2	3	

WD\_3Y

**Thermal Limit Curves**

Motor Type: AEHHXF		Catalogue No: XC1/565C		Family: Optim TEXP	
HP	1.5	Safe Stall Time		Full Load A	0.0 / 2.0 A
Voltage	0 / 575V 60Hz	Hot	68.0 s	Locked Rotor A	784 %
RPM	1200	Cold	97.0 s	Locked Rotor A	0.0 / 16 A



**T-N and I-N Curves**

Motor Type: AEHHXF		Catalogue No: XC1/565C		Family: Optim TEXP	
HP	1.5	Full Load T	6.7 lb-ft	Full Load A	2.0 A
Voltage	575V 60Hz	Locked Rotor T	230.0 %	Locked Rotor A	16.0 A
RPM	1200	Pull Up T	225.0 %	Break Down T	370.0 %

