

Technical Documentation

# **XH0256C**

## **Optim TEXP | AEHHXF**

Date: May 28, 2018

### Technical Data Sheet

Motor Type: AEHHXF

Catalogue No: XH0256C

#### Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
25	6	1175	324TC	230 / 460	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.					
93.0	91.7	93.0	93.0	83.0	80.5	73.0
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
112	210	170	225	19.6 / 9.8	60.7 / 30.3	365 / 183
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	
G	10.887	324	609	38	27	60

#### 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
6312	6212	708

#### 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.	XH0256C		
OUTPUT	25 HP 19 kW	FRAME	324TC	TEXP	
R.P.M.	1175	POLE	6	INS.	F
VOLTS	230 / 460	PHASE	3	Hz	60
AMPS	60.7 / 30.3	CODE	G	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 93.0		MIN. EFF. 91.7	
BEARINGS	6312 / 6212			RATING Cont.	
SER. NO.	TBD	DESIGN	C	WT. 708 LBS	
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	6-60Hz	60-90Hz	1.0 Only	

**Connection Diagram**

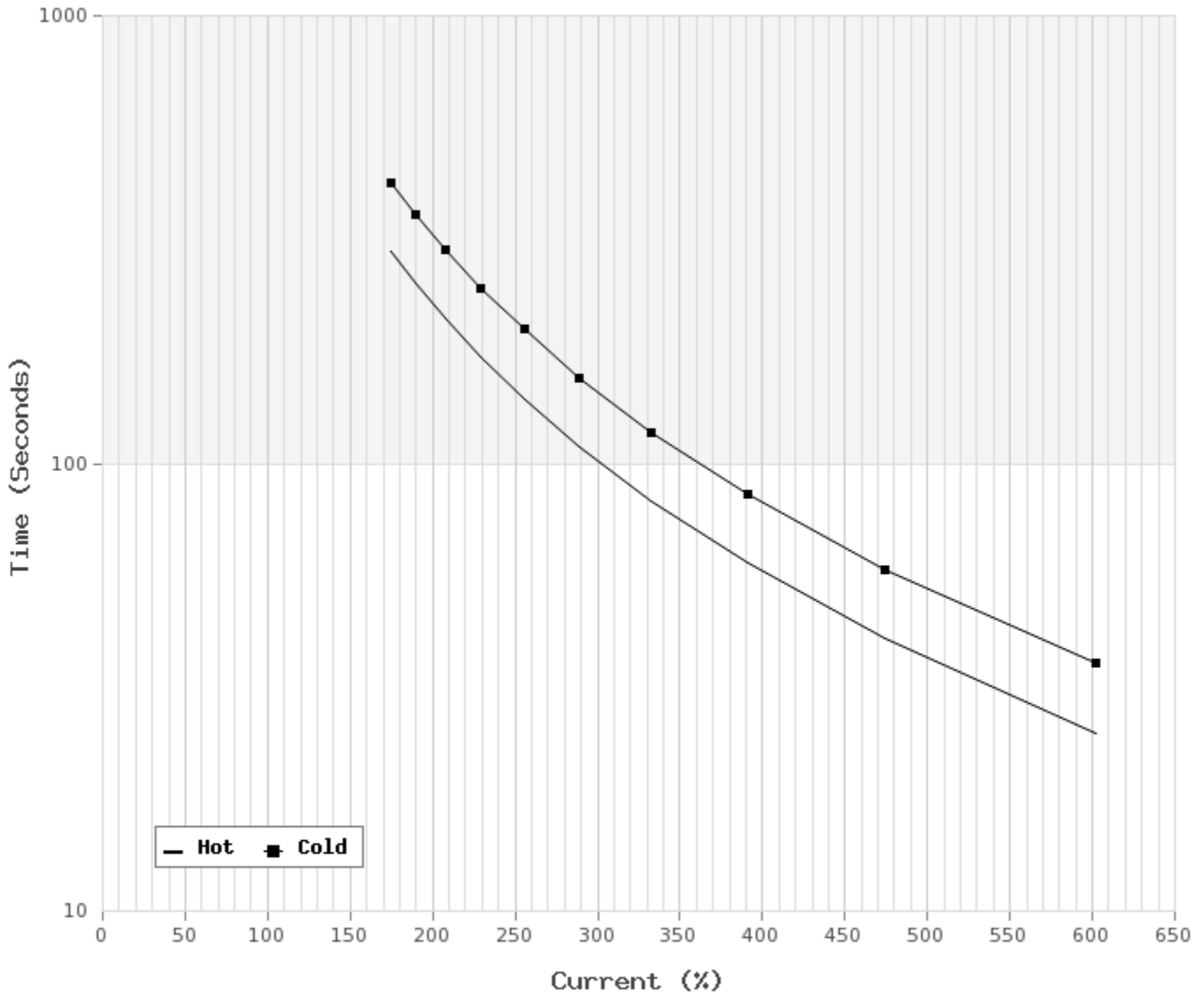


12 LEAD DUAL VOLTAGE WYE/DELTA						
VOLTAGE	CONNECTION		L1	L2	L3	JOIN
HIGH	START	WYE	1	2	3	4&7,5&8,6&9 10&11&12
	RUN	DELTA	1,12	2,10	3,11	4&7,5&8,6&9
LOW	START	2 WYE	1,7	2,8	3,9	4&5&6 10&11&12
	RUN	2 DELTA	1,6,7 12	2,4,8 10	3,5,9 11	

WD\_12YD

### Thermal Limit Curves

Motor Type: AEHHXF		Catalogue No: XH0256C		Family: Optim TEXP	
HP	25	Safe Stall Time		Full Load A	60.7 / 30.3 A
Voltage	230 / 460V 60Hz	Hot	27 s	Locked Rotor A	601 / 604 %
RPM	1200	Cold	38 s	Locked Rotor A	365.0 / 183 A



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

Motor Type: AEHHXF		Catalogue No: XH0256C		Family: Optim TEXP	
HP	25	Full Load T	112 lb-ft	Full Load A	60.7 / 30.3 A
Voltage	230 / 460V 60Hz	Locked Rotor T	210 %	Locked Rotor A	365.0 / 183.0 A
RPM	1200	Pull Up T	170 %	Break Down T	225 %

