

DATE  
APRIL 5, 2011  
CAT. #: **XP02525C**

# OUTLINE DIMENSIONS

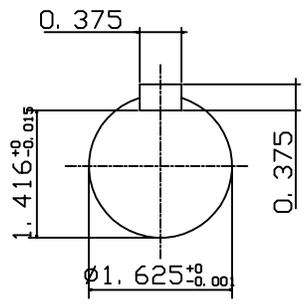
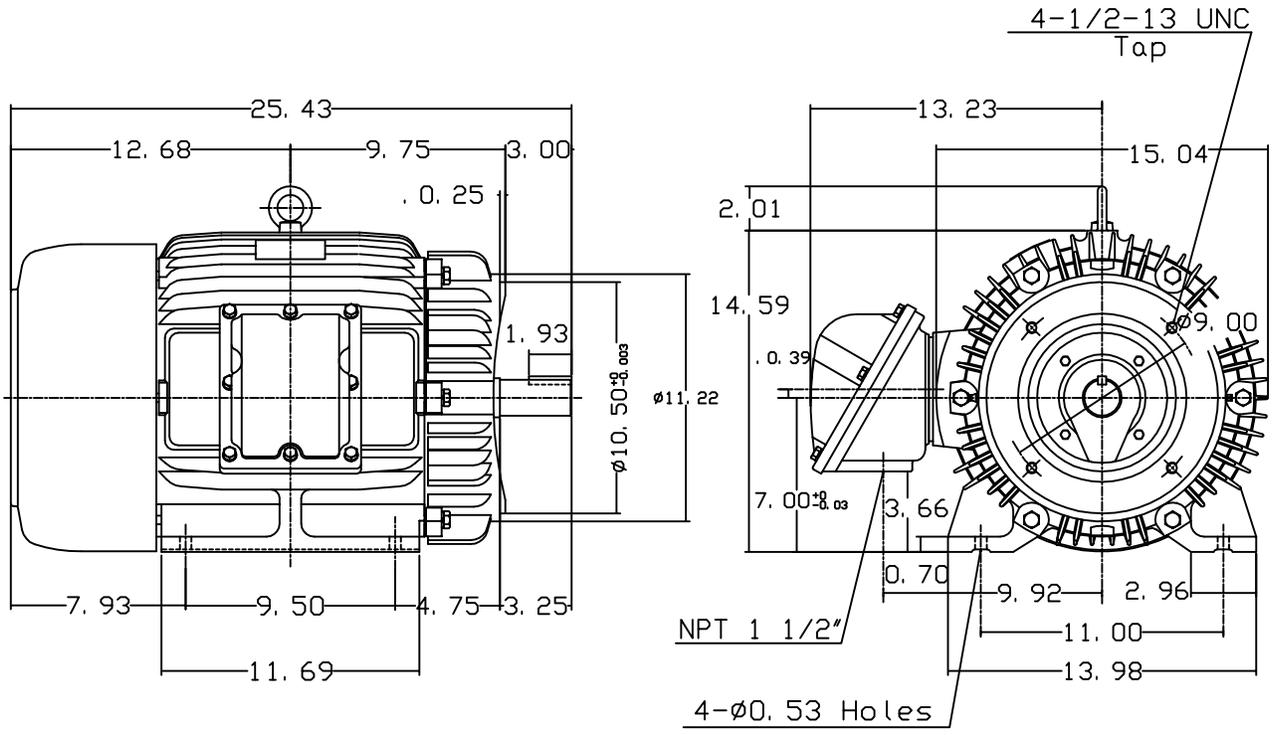
## 3-PHASE INDUCTION MOTOR

MOTOR TYPE:  
**AEHHXF**  
FRAME NO. **284TSC**

Pole	HP	KW	Hz	VOLT	Syn. Speed r/min(rpm)
2	25	18.7	60	<b>575</b>	3600

Ins	Rating	Dimension in	Approx Weight	Bearings
F	CONT.	inches	475 LBS	DE: 6211C3 NDE: 6211C3

Totally Enclosed Fan Cooled Type. Squirrel-cage Rotor.



Note:  
1. Explosion proof:  
Class I Group D and  
Class II Group E, F, G.



DWN.	J. H. LIANG	11-30-00
CHKD.	C. H. KAO	03-07-01
APPD.	Y. B. HUANG	03-07-01



DWG NO.  
**31049M627170**

	
	Date: January 22, 2021

### Technical Data Sheet

Motor Type: AEHHXF	Catalogue No: XP02525C
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#### Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
25	2	3540	284TSC	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	<1000 m

#### Typical Performance

Efficiency (%)				Power Factor (%)		
Full Load		3/4 Load	1/2 Load	Full Load	3/4 Load	1/2 Load
Nom.	Min.					
91.70	90.20	93.00	92.00	92.00	91.00	87.00
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
37.08	210	150	250	4.4	22.2	146.00
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	1.735	26.00	59.00	32	22	76.0

#### VFD Duty Information

Speed Range			VFD		S.F.
Constant Torque	Variable Torque	Constant Power	Carrier	Type	
6-60Hz	3-60Hz	60-90Hz	0	VPWM or CPWM	1.0 Only

#### 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

#### Additional Certifications

Other Certification
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#### Additional Information

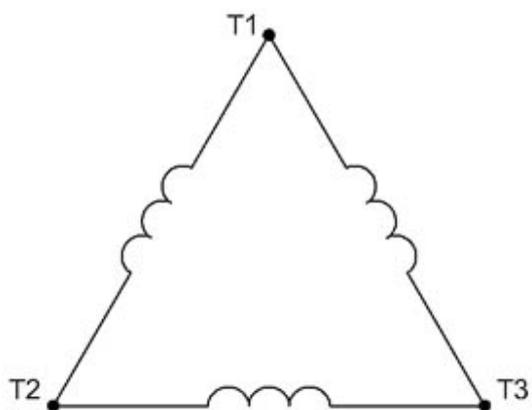
Bearings		Approx. Weight
DE	NDE	lbs
6211C3	6211C3	466

**Nameplate Drawing**

# Optim TEXP

TYPE	AEHDXF	CAT. NO.	XP02525C		
OUTPUT	25 HP 18.65 kW	FRAME	284TS	TEXP	
R.P.M.	3540	POLE	2	INS.	F
VOLTS	575	PHASE	3	Hz	60
AMPS	22.2	CODE	G	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 91.70		MIN. EFF. 90.20	
BEARINGS	6211C3 / 6211C3			RATING Cont.	
SER. NO.	TBD	DESIGN	B	WT. 466 LBS	
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	6-60Hz	60-90Hz	1.0 Only	

**Connection Diagram**

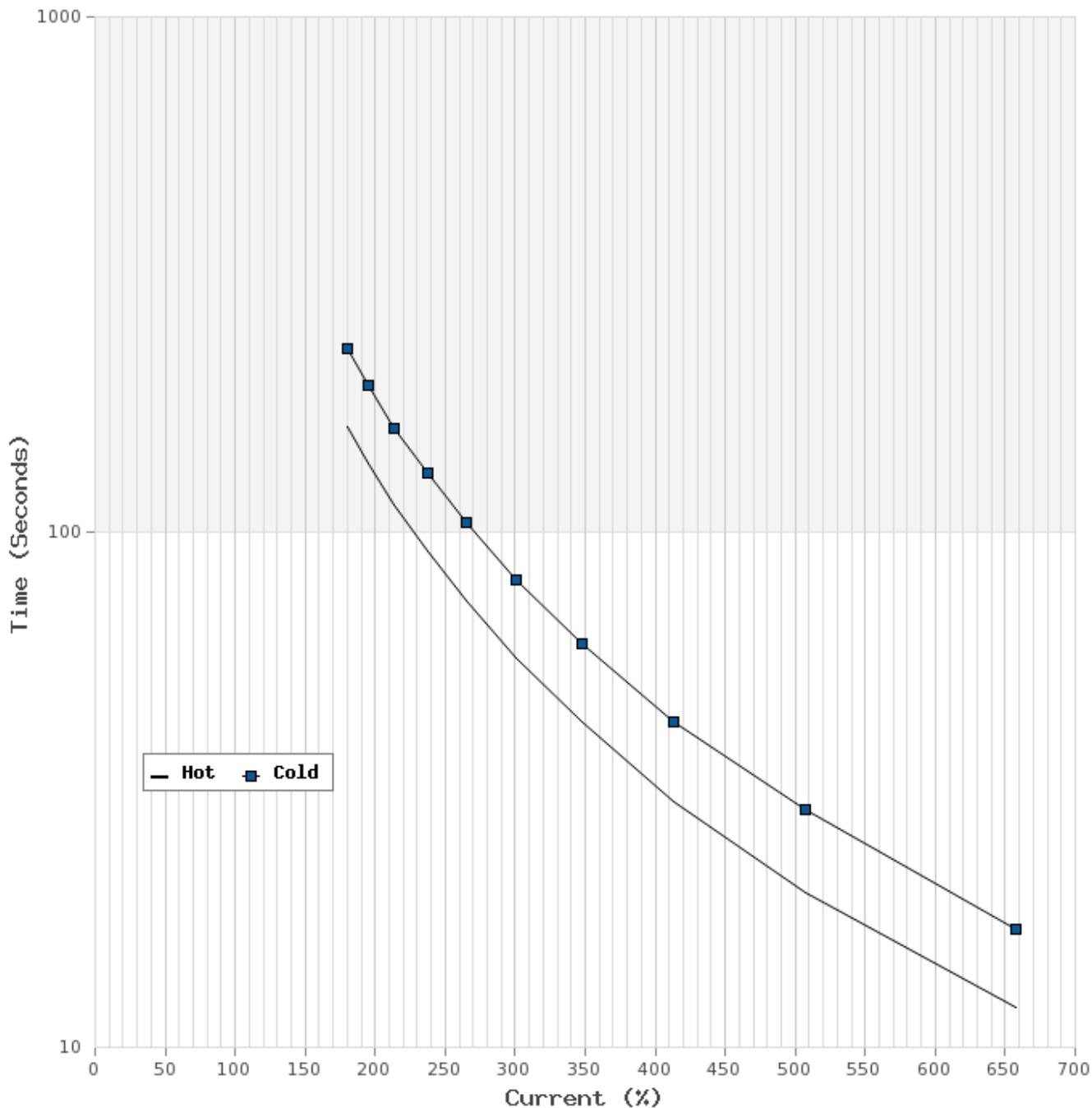


3 LEAD		SINGLE VOLTAGE			DELTA
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD\_3D

### Thermal Limit Curves

Motor Type: AEHHXF		Catalogue No: XP02525C		Family: Optim TEXP	
HP	25	Safe Stall Time		Full Load A	22.2 A
Voltage	575V 60Hz	Hot	22 s	% Inrush	658 %
RPM	3600	Cold	32 s	Locked Rotor A	146.00 A



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

Motor Type: AEHHXFS		Catalogue No: XP02525C		Family: Optim TEXP	
HP	25	Full Load T	37.08 lb-ft	Full Load A	22.2 A
Voltage	575V 60Hz	Locked Rotor T	210 %	Locked Rotor A	146.0 A
RPM	3600	Pull Up T	150 %	Break Down T	250 %

