Technical Documentation

XH06025C

Optim TEXP | AEHHXF

Date: May 28, 2018

TECO Westinghouse MOTORS (CANADA) INC.	
	Date: May 28, 2018

Technical Data Sheet

Motor Type: AEHHXF	Catalogue No: XH06025C

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
60	2	3555	364TSC	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	94.0	93.0	92.0	89.5
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
88.6	145.0	115.0	290.0	8.3	51.6	348
NEMA KVA Code	Inertia (WR^2)			Safe Stall Time (s)		Noise Level Sound Press. dB(A)
	Rotor ($lb\text{-}ft^2$)	NEMA Load ($lb\text{-}ft^2$)	Max. Allowable ($lb\text{-}ft^2$)	Cold	Hot	
G	7.4	58.0	143.0	17.0	12.0	78.0

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
6312C3	6212C3	913

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

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Nameplate Drawing

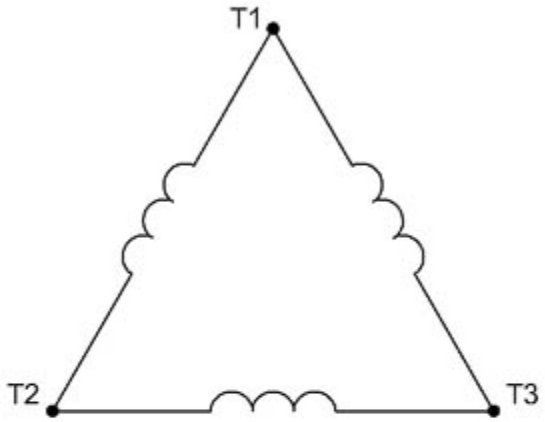
Optim TEXP

TYPE	AEHHXF	CAT. NO.	XH06025C		
OUTPUT	60 HP 45 kW	FRAME	364TSC	TEXP	
R.P.M.	3555	POLE	2	INS.	F
VOLTS	575	PHASE	3	Hz	60
AMPS	51.6	CODE	G	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 93.6		MIN. EFF. 92.4	
BEARINGS	6312C3 / 6212C3			RATING Cont.	

SER. NO.	TBD	DESIGN	B	WT. 913 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

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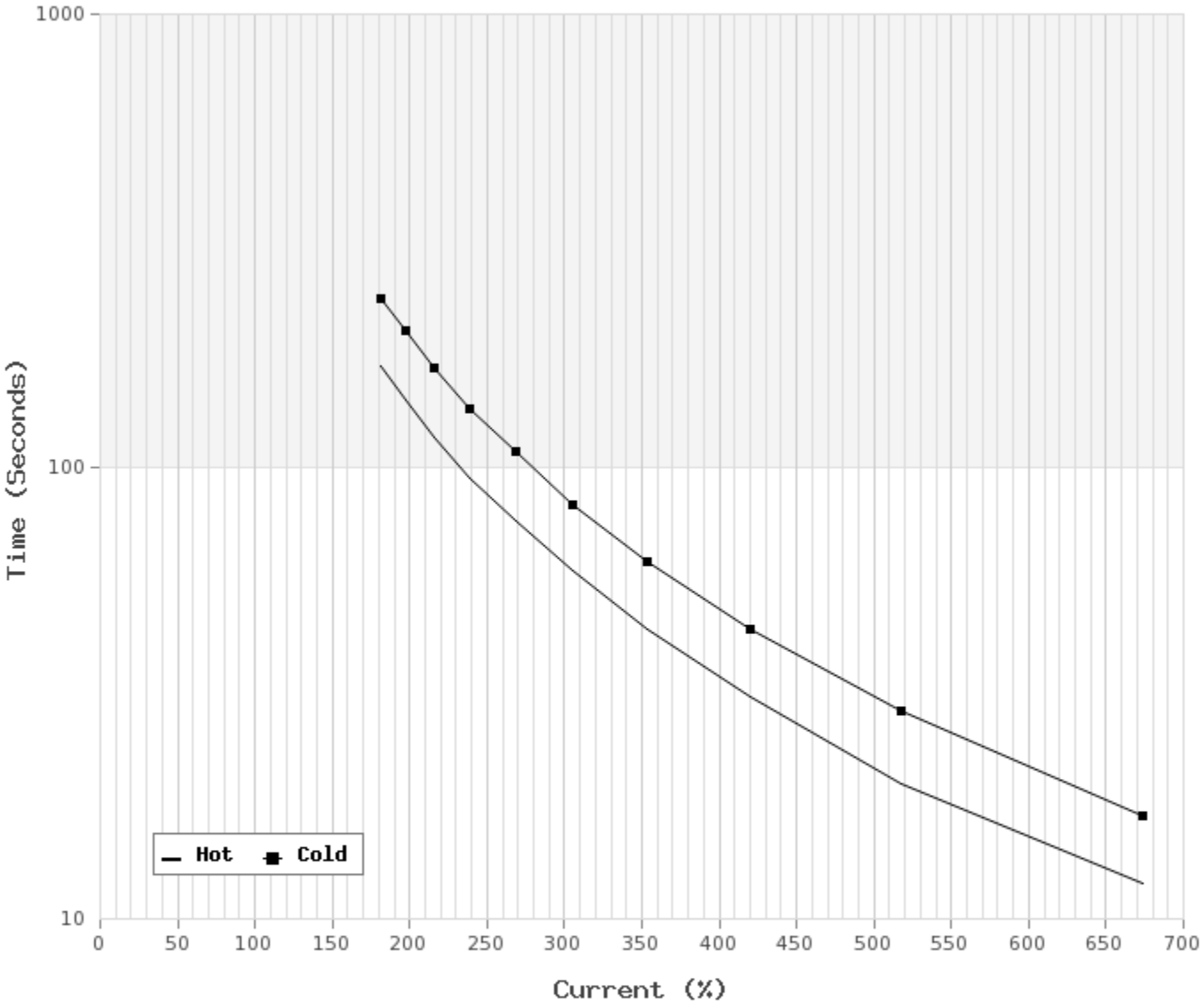
Thermal Limit Curves

Motor Type: AEHHXF		Catalogue No: XH06025C		Family: Optim TEXP	
HP	60	Safe Stall Time		Full Load A	0.0 / 51.6 A
Voltage	0 / 575V 60Hz	Hot	12.0 s	Locked Rotor A	674 %
RPM	3600	Cold	17.0 s	Locked Rotor A	0.0 / 348 A



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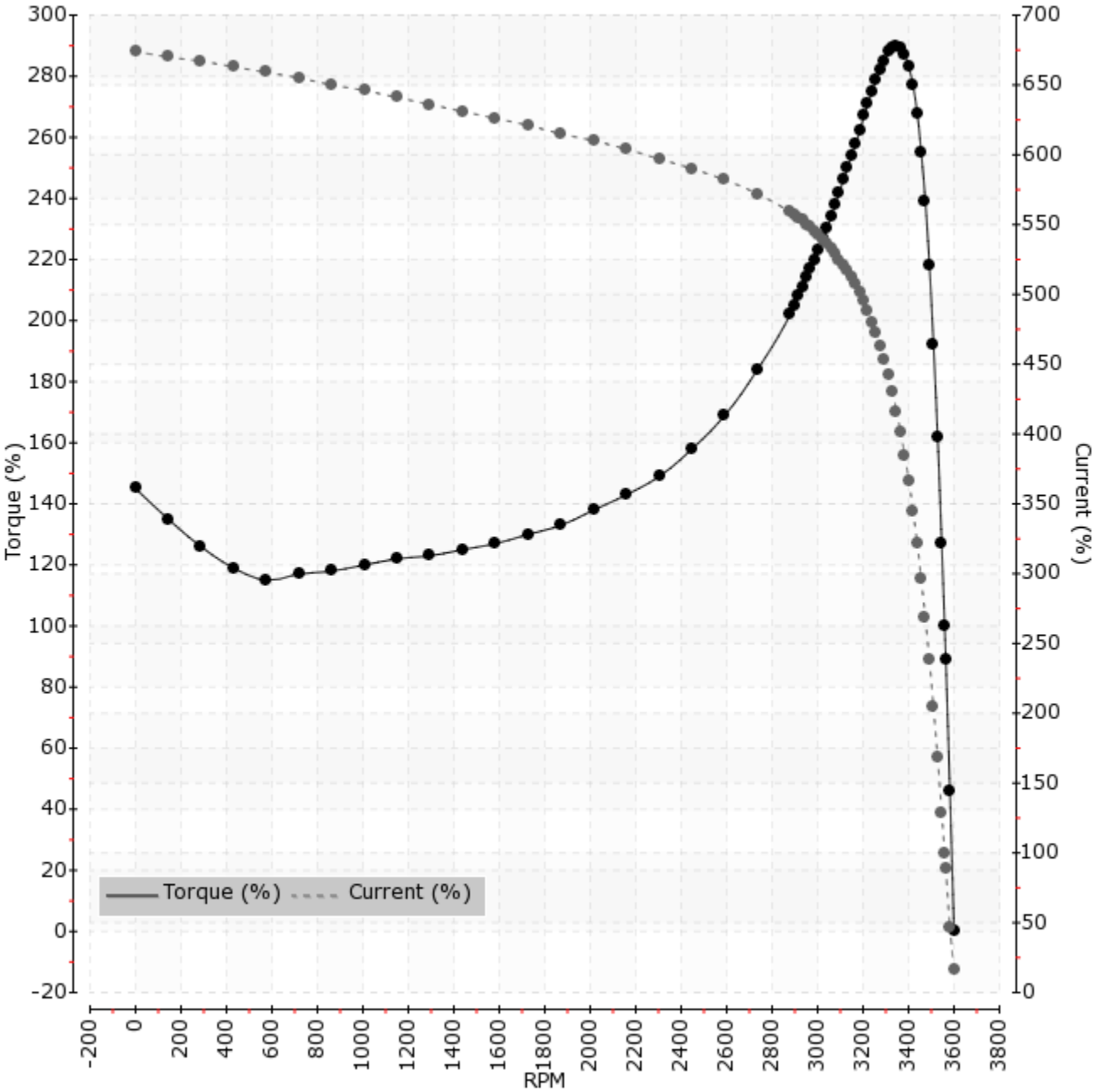
T-N and I-N Curves

Motor Type: AEHHXF		Catalogue No: XH06025C		Family: Optim TEXP	
HP	60	Full Load T	88.6 lb-ft	Full Load A	51.6 A
Voltage	575V 60Hz	Locked Rotor T	145.0 %	Locked Rotor A	348.0 A
RPM	3600	Pull Up T	115.0 %	Break Down T	290.0 %