Technical Documentation

XH1256R

Optim TEXP | AEHHXU

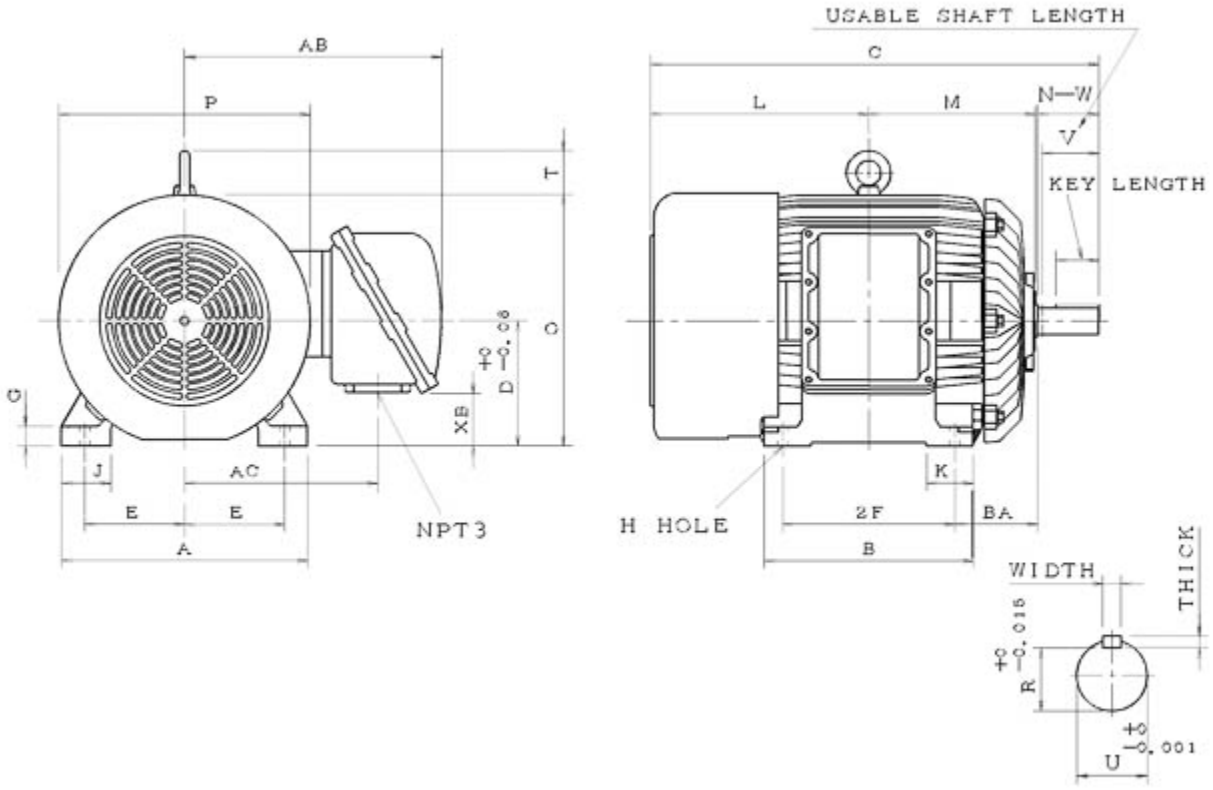
Date: December 1, 2016

TECO Westinghouse
MOTORS (CANADA) INC.

Date: December 1, 2016

Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
XH1256R	AEHHXU	125	6	93	Continuous	230 / 460 V	60	1200



AEHHXU-HMP-2 1 0

Frame Size	Mounting					A	B	C	CD	D
	E	2F	2F2	H	BA					
445T	9	16.5		0.81	7.5	22.05	19.5	44.05		11

G	J	K	L	M	O	P	T	Key			Keyseat
								Width	Thick	Length	R
1.55	4.35	4.35	19.8	15.45	22.25	23.3	3.55	0.875	0.875	6.91	2.880

Terminal Housing				Aux Box		C/D Flange					
AA	AB	AC	XB	AE	AX	BB	AH	AK	BD	AJ	BF
NPT3"	21.65	16.6	5.1								

Shaft Extension			Bearings		Approx. Weight Lbs	SPL dBA/3ft	Ins. Class	S.F.	Drive Method	Dimensions
N-W	U	V	DE	NDE						
8.5	3.375	8	NU318	6318	1720	80	F	1.15	Belt Drive	Inches

TECO Westinghouse MOTORS (CANADA) INC.	
	Date: December 1, 2016

Technical Data Sheet

Motor Type: AEHHXU	Catalogue No: XH1256R

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
125	6	1181	445T	230 / 460	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	<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.					
95.0	94.1	94.5	93.6	84.0	81.5	75.0

Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
555.6870146	130	104	210	119.4 / 59.7	293.0 / 147.0	1815 / 907

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	73.000	1452	3132	38	15	80

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

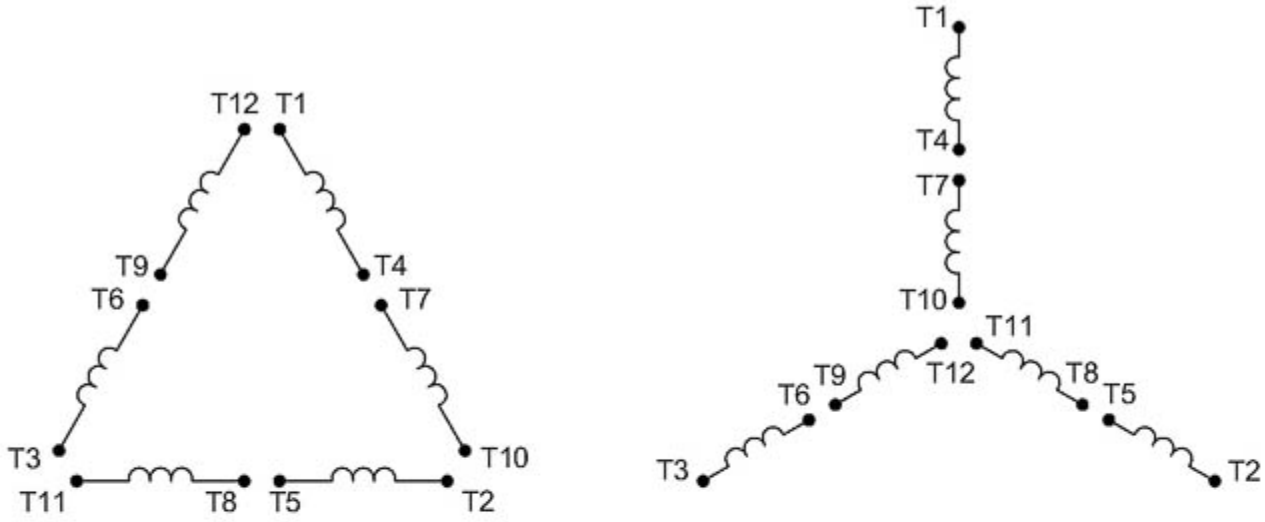
Additional Information

Bearings		Approx. Weight
DE	NDE	lbs
NU318	6318	1720

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

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