

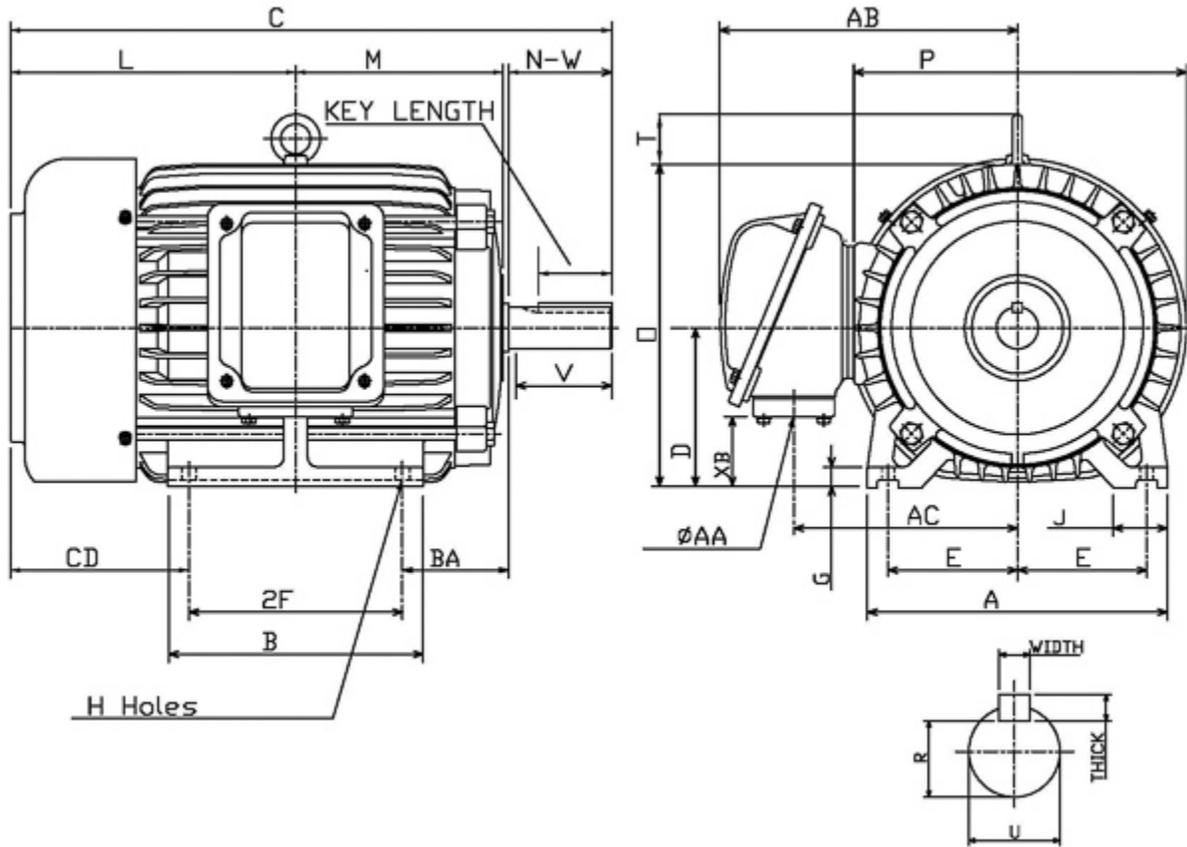
Technical Documentation

PDH7/525
Optim TEFC | AEHH8N

Date: November 30, 2016

Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
PDH7/525	AEHH8N	7.5	2	5.6	Continuous	575 V	60	3600



Frame Size	Mounting					A	B	C	CD	D	
	E	2F	2F2	H	BA						
213T	4.25	5.5		0.41	3.5	9.85	6.9	17.98		5.25	
G	J	K	L	M	O	P	T	Key			Keyseat
0.7	1.75		8.35	6.06	10.8	11.1	1.46	Width	Thick	Length	R
								0.312	0.312	2.41	1.201
Terminal Housing			Aux Box			C/D Flange					
AA	AB	AC	XB	AE	AX	BB	AH	AK	BD	AJ	BF
1 NPT	9.78	7.34	2.34								
Shaft Extension			Bearings		Approx. Weight Lbs	SPL dBA/3ft	Ins. Class	S.F.	Drive Method	Dimensions	
N-W	U	V	DE	NDE							
3.38	1.375	3.3	6308ZZ	6306ZZ	167	70	F	1.15	Direct Coupling / Belt Drive	Inches	

Technical Data Sheet

Motor Type: AEHH8N

Catalogue No: PDH7/525

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
7.5	2	3510	213T	575	60	3
Enclosure	Ins. Class	Service Factor	Time Rating	NEMA Design	Rated Amb.	Rated Altitude
TEFC	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.					
91.0	89.5	91.0	90.2	89.0	87.0	80.0
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
11.22	200	175	275	2.0	6.9	51
NEMA KVA Code	Inertia (WR ²)			Safe Stall Time (s)		Noise Level Sound Press. dB(A)
	Rotor (lb-ft ²)	NEMA Load (lb-ft ²)	Max. Allowable (lb-ft ²)	Cold	Hot	
H	0.448	8.3	19.0	17	12	70

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

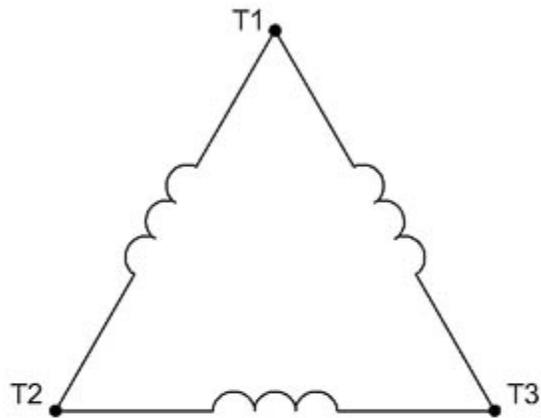
Additional Information

Bearings		Approx. Weight
DE	NDE	lbs
6308ZZ	6306ZZ	167

Hazardous Locations Information

CSA Certified	
Class I, Div 2, Groups B, C & D	
Class I, Zone 2, Groups IIB+H2, IIB & IIA	
Temp Code (Sinewave / VFD)	T3C / T3B

Connection Diagram

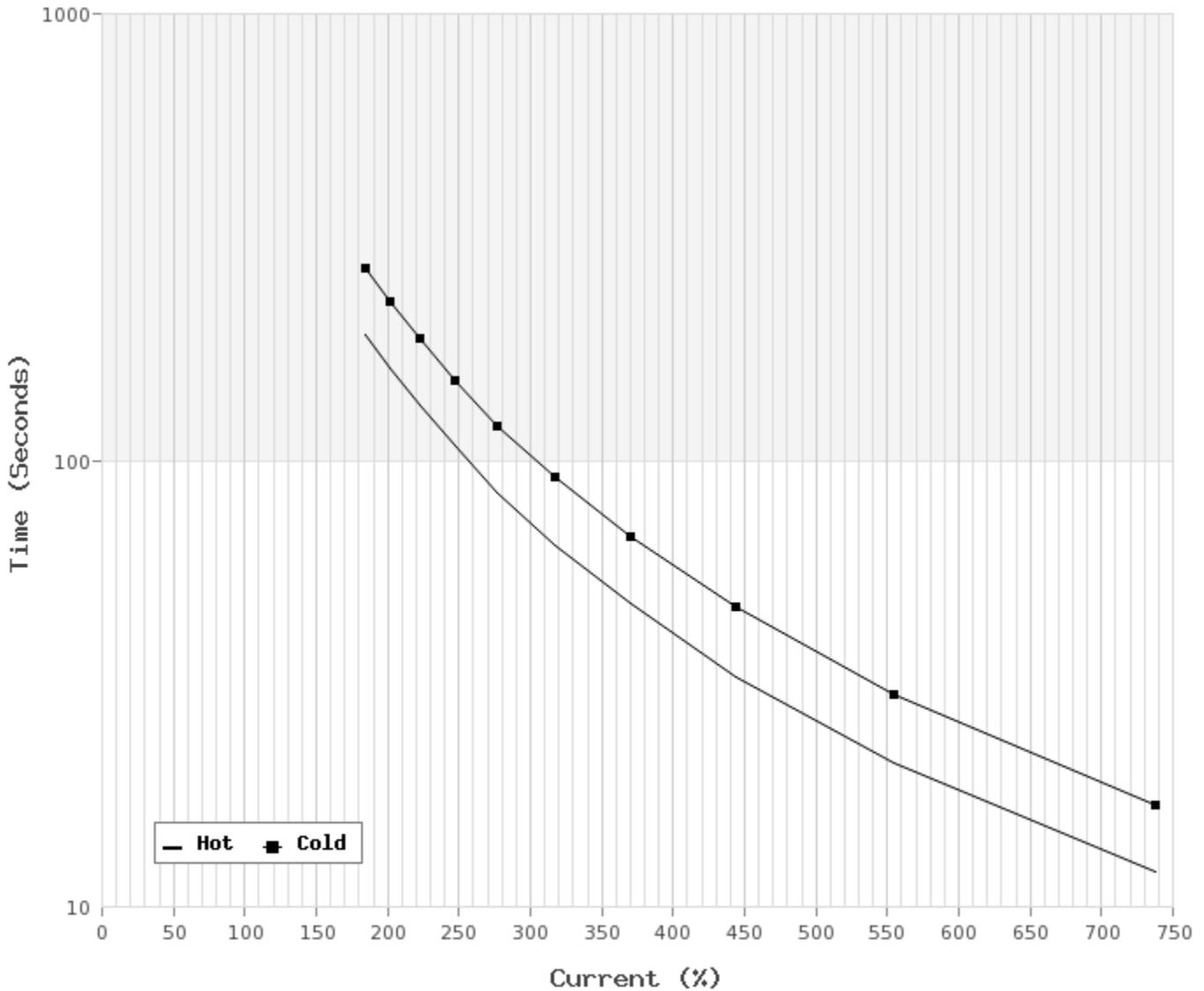


3 LEAD SINGLE VOLTAGE DELTA					
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD_3D

Thermal Limit Curves

Motor Type: AEHH8N		Catalogue No: PDH7/525		Family: Optim TEFC	
HP	7.5	Safe Stall Time		Full Load A	0.0 / 6.9 A
Voltage	0 / 575V 60Hz	Hot	12 s	Locked Rotor A	735 %
RPM	3600	Cold	17 s	Locked Rotor A	0.0 / 51 A



T-N and I-N Curves

Motor Type: AEHH8N		Catalogue No: PDH7/525		Family: Optim TEFC	
HP	7.5	Full Load T	11.22 lb-ft	Full Load A	6.9 A
Voltage	575V 60Hz	Locked Rotor T	200 %	Locked Rotor A	51.0 A
RPM	3600	Pull Up T	175 %	Break Down T	275 %

