

Technical Documentation

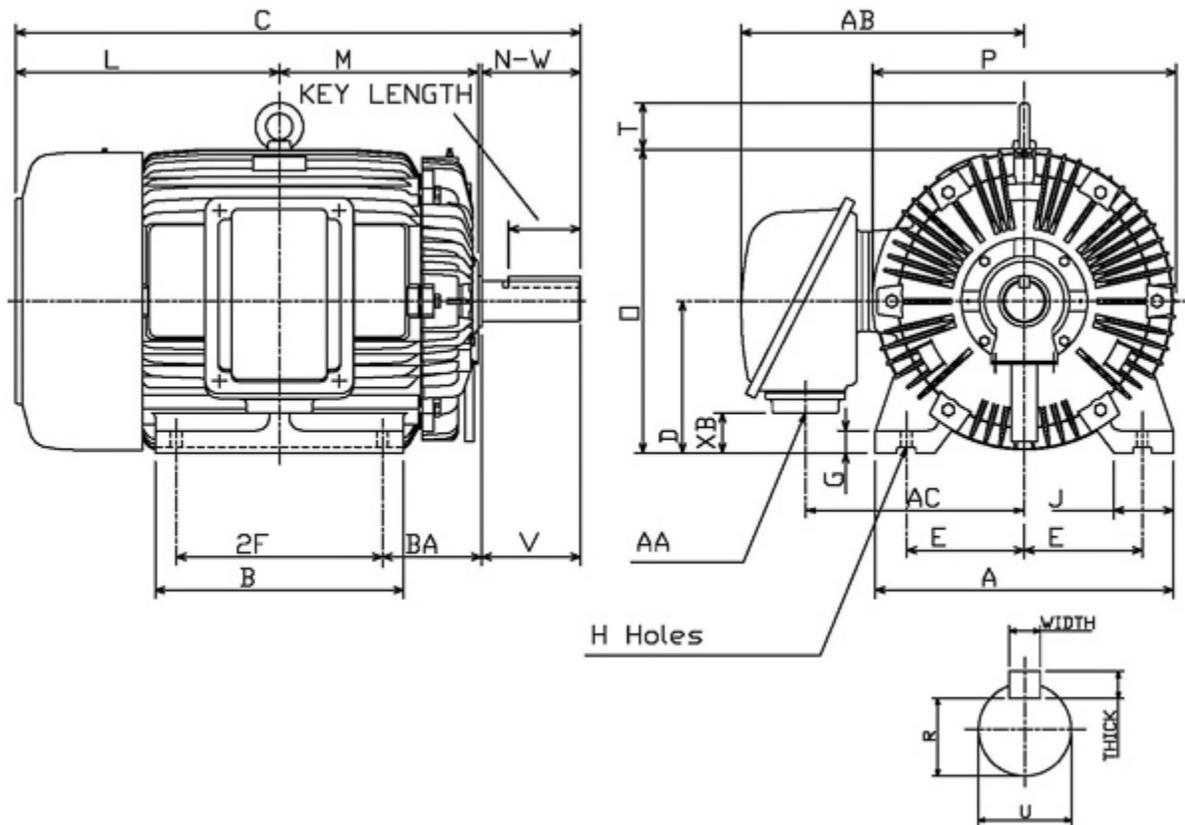
# **PDH06065**

## **Optim TEFC | AEHH8N**

Date: November 30, 2016

**Dimensional Drawing**

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
PDH06065	AEHH8N	60	6	45	Continuous	575 V	60	1200



Frame Size	Mounting					A	B	C	CD	D	
	E	2F	2F2	H	BA						
404T	8	12.25		0.81	6.62	19.7	15.15	36.3		10	
G	J	K	L	M	O	P	T	Key			Keyseat
1.55	3.95		16.3	12.52	20.04	20.08	2.76	Width	Thick	Length	R
								0.75	0.75	5.65	2.45
Terminal Housing			Aux Box			C/D Flange					
AA	AB	AC	XB	AE	AX	BB	AH	AK	BD	AJ	BF
3 NPT	19.37	14.76	1.81								
Shaft Extension			Bearings		Approx. Weight Lbs	SPL dBA/3ft	Ins. Class	S.F.	Drive Method	Dimensions	
N-W	U	V	DE	NDE							
7.25	2.875	7.15	6317	6313	1245	78	F	1.15	Direct Coupling / Belt Drive	Inches	

### Technical Data Sheet

Motor Type: AEHH8N

Catalogue No: PDH06065

#### Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
60	6	1180	404T	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.					
94.5	93.6	94.5	94.1	87.0	86.5	80.5
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
267.00	200	185	245	14.5	54.7	348
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	33.530	735.0	1828.0	34	24	78

#### VFD Duty Information

Speed Range			VFD		S.F.
Constant Torque	Variable Torque	Constant Power	Carrier	Type	
6-60Hz	3-60Hz	60-120Hz	≤ 5 kHz	VPWM or CPWM	1.0 Only

#### Additional Information

Bearings		Approx. Weight
DE	NDE	lbs
6317	6313	1245

#### 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 / T3

**Connection Diagram**

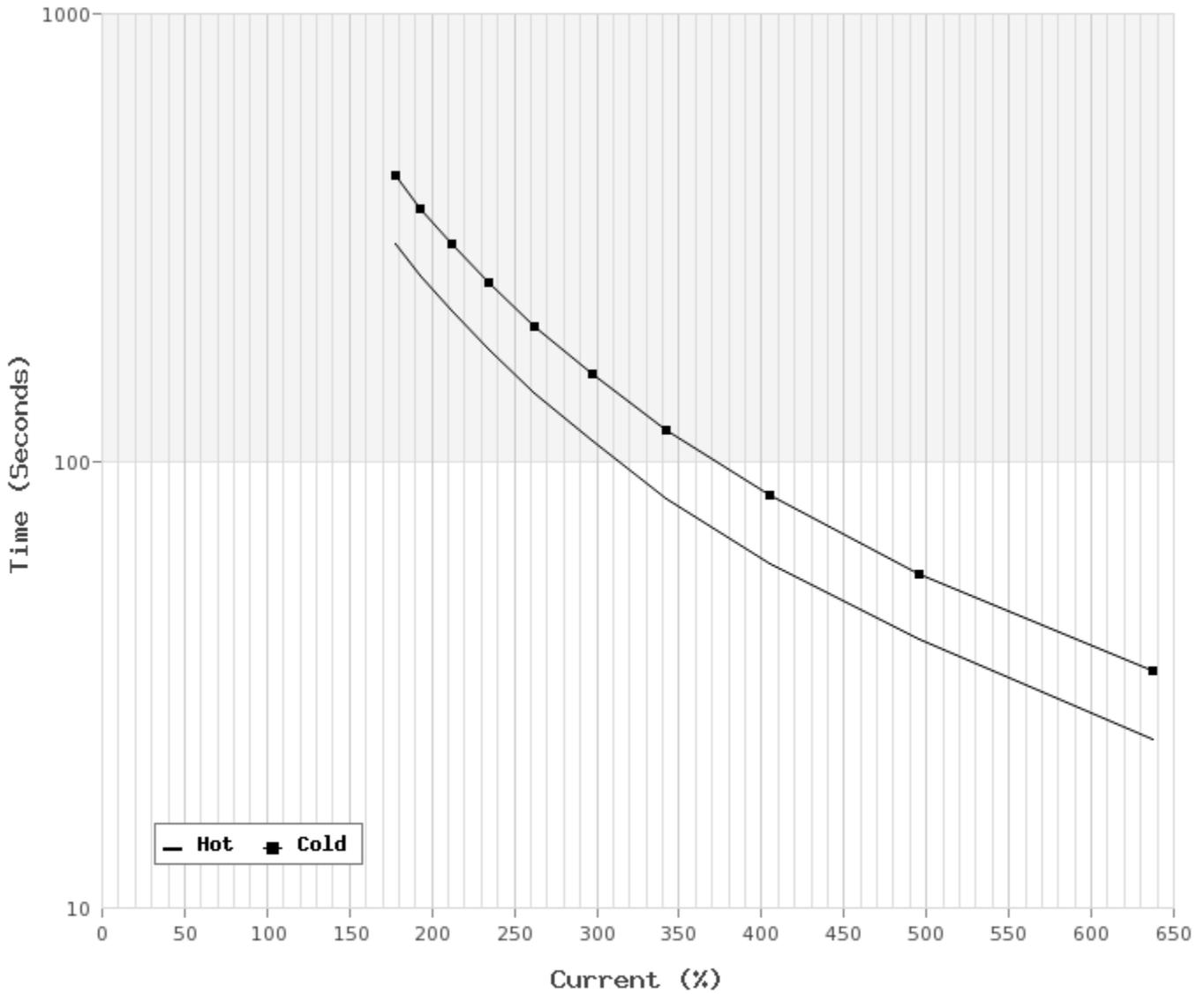


3 LEAD SINGLE VOLTAGE DELTA					
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD\_3D

**Thermal Limit Curves**

Motor Type: AEHH8N		Catalogue No: PDH06065		Family: Optim TEFC	
HP	60	Safe Stall Time		Full Load A	0.0 / 54.7 A
Voltage	0 / 575V 60Hz	Hot	24 s	Locked Rotor A	637 %
RPM	1200	Cold	34 s	Locked Rotor A	0.0 / 348 A



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

Motor Type: AEHH8N		Catalogue No: PDH06065		Family: Optim TEFC	
HP	60	Full Load T	267.00 lb-ft	Full Load A	54.7 A
Voltage	575V 60Hz	Locked Rotor T	200 %	Locked Rotor A	348.0 A
RPM	1200	Pull Up T	185 %	Break Down T	245 %

