

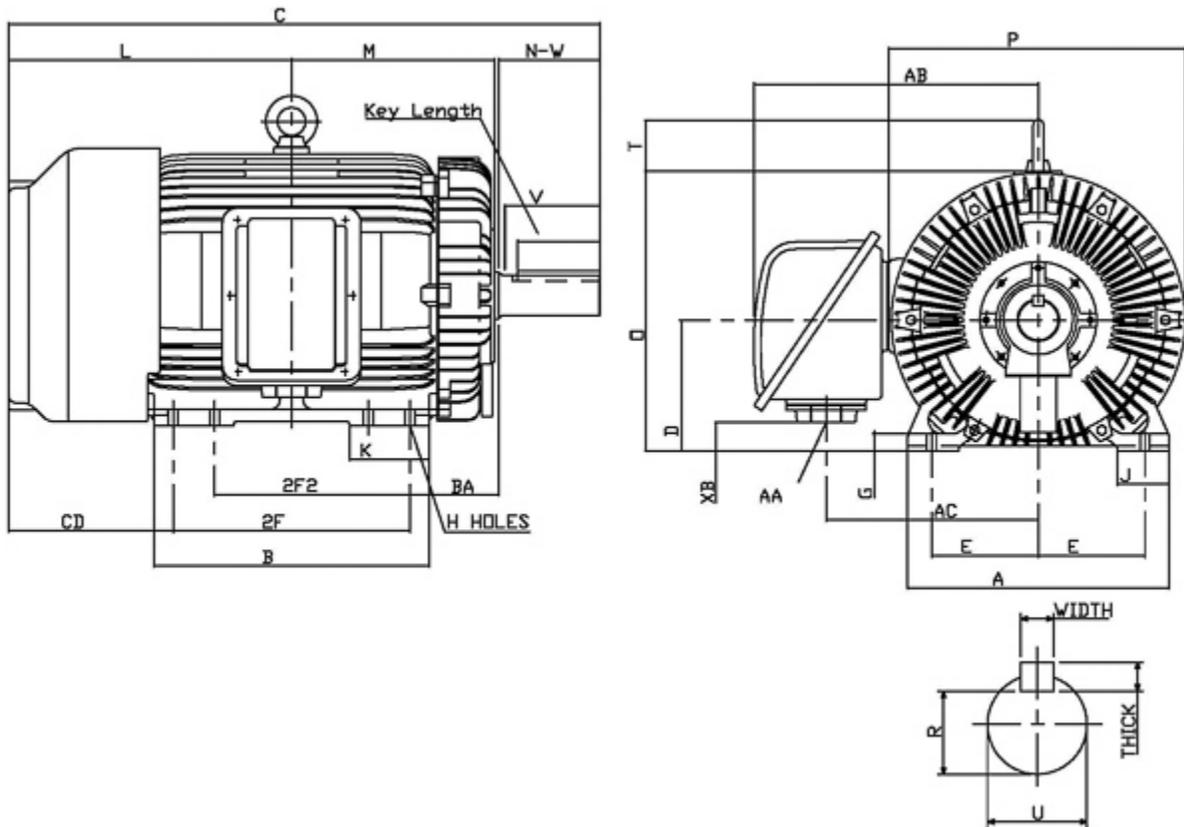
Technical Documentation

**PDH20065**  
**Optim TEFC | AEHH8N**

Date: July 10, 2017

### Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
PDH20065	AEHH8N	200	6	149	Continuous	575 V	60	1200



Frame Size	Mounting					A	B	C	CD	D	
	E	2F	2F2	H	BA						
449T	9	25	20	0.81	7.5	22.05	27.95	54.9	13.9	11	
G	J	K	L	M	O	P	T	Key			Keyseat
1.4	4.35	8.25	26.4	19.65	23.55	24.75	4.35	Width	Thick	Length	R
								0.875	0.875	6.91	2.88
Terminal Housing				Aux Box		C/D Flange					
AA	AB	AC	XB	AE	AX	BB	AH	AK	BD	AJ	BF
3 NPT	24	17.9	2.4								
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	6320	6316	2380	79	F	1.15	Direct Coupling / Belt Drive	Inches	

### Technical Data Sheet

Motor Type: AEHH8N

Catalogue No: PDH20065

#### Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
200	6	1186	449T	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.					
95.8	95.0	95.4	94.5	84.0	81.0	74.0
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
885.00	135	103	210	52.5	186.2	1160
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	
0	125.000	2238.0	5595.0	17	12	79

#### VFD Duty Information

Speed Range			VFD		S.F.
Constant Torque	Variable Torque	Constant Power	Carrier	Type	
20-60Hz	3-60Hz	60-90Hz	≤ 5 kHz	VPWM or CPWM	1.0 Only

#### Additional Information

Bearings		Approx. Weight
DE	NDE	lbs
6320	6316	2380

#### Hazardous Locations Information

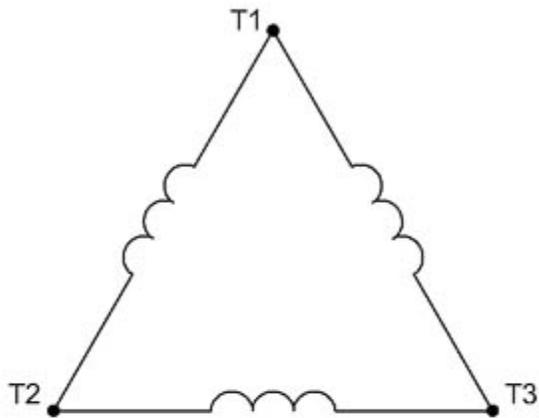
CSA Certified	
Class I, Div 2, Groups B, C & D Class I, Zone 2, Groups IIB+H2, IIB & IIA	
Temp Code (Sinewave / VFD)	T3C / T3

**Nameplate Drawing**

# Optim TEFC

TYPE	AEHH8N	CAT. NO.	PDH20065		
OUTPUT	200 HP 149 kW	FRAME	449T	TEFC	
R.P.M.	1186	POLE	6	INS.	F
VOLTS	575	PHASE	3	Hz	60
AMPS	186.2	CODE	0	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 95.8		MIN. EFF. 95.0	
BEARINGS	6320 / 6316			RATING Cont.	
SER. NO.	TBD	DESIGN	B	WT. 2380 LBS	
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	20-60Hz	60-90Hz	1.0 Only	

**Connection Diagram**

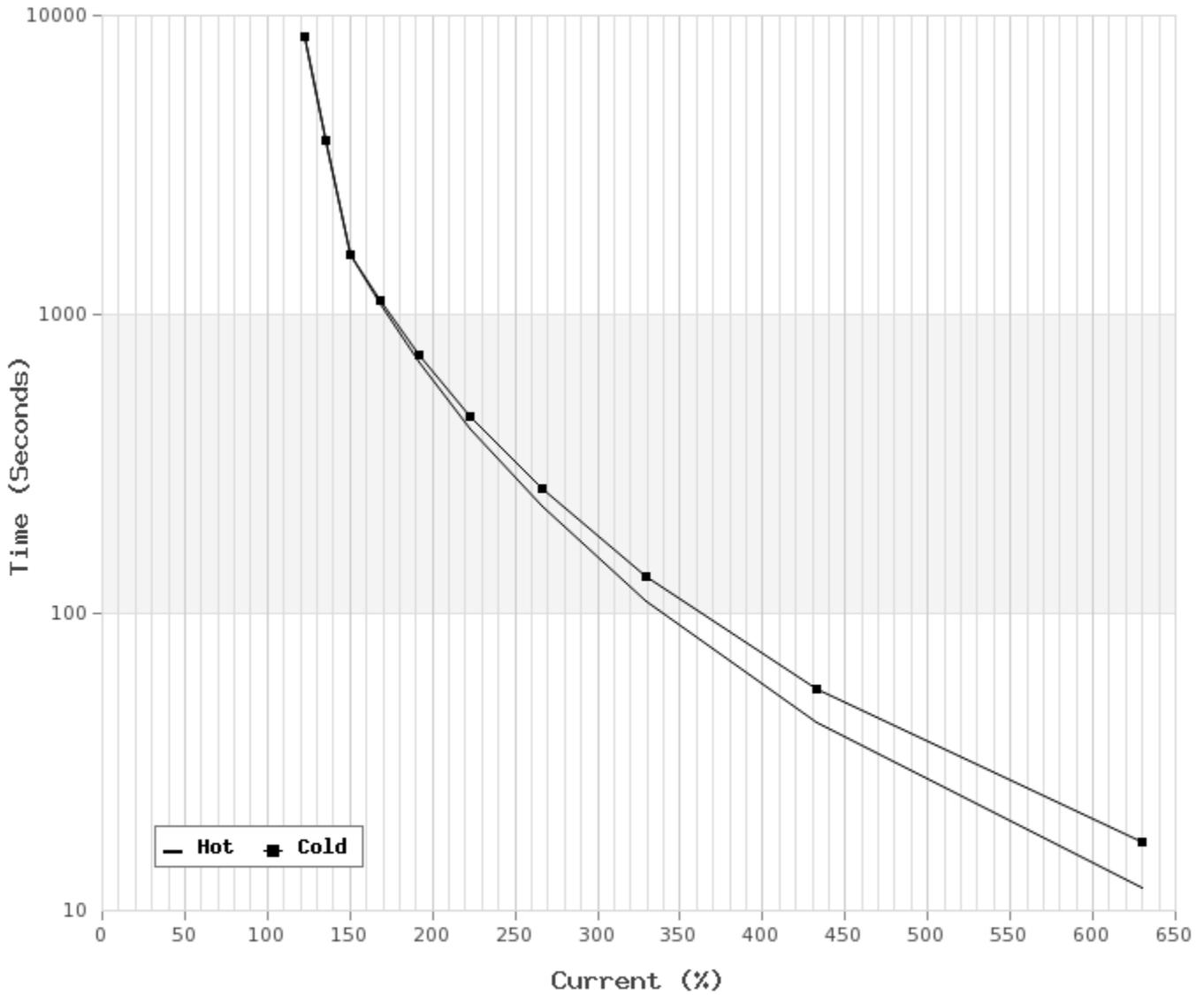


3 LEAD SINGLE VOLTAGE DELTA					
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD\_3D

**Thermal Limit Curves**

Motor Type: AEHH8N		Catalogue No: PDH20065		Family: Optim TEFC	
HP	200	Safe Stall Time		Full Load A	0.0 / 186.2 A
Voltage	0 / 575V 60Hz	Hot	12 s	Locked Rotor A	623 %
RPM	1200	Cold	17 s	Locked Rotor A	0.0 / 1 A



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

Motor Type: AEHH8N		Catalogue No: PDH20065		Family: Optim TEFC	
HP	200	Full Load T	885.00 lb-ft	Full Load A	186.2 A
Voltage	575V 60Hz	Locked Rotor T	135 %	Locked Rotor A	1,160.0 A
RPM	1200	Pull Up T	103 %	Break Down T	210 %

