

Technical Documentation

PDX02565
Optim TEFC | AEHH8N

Date: July 1, 2021

Dimensional Drawing

Catalogue	Type	HP	RPM	Voltage	Hz	Frame Size
PDX02565	AEHH8N	25	1200	575	60	324T(X)

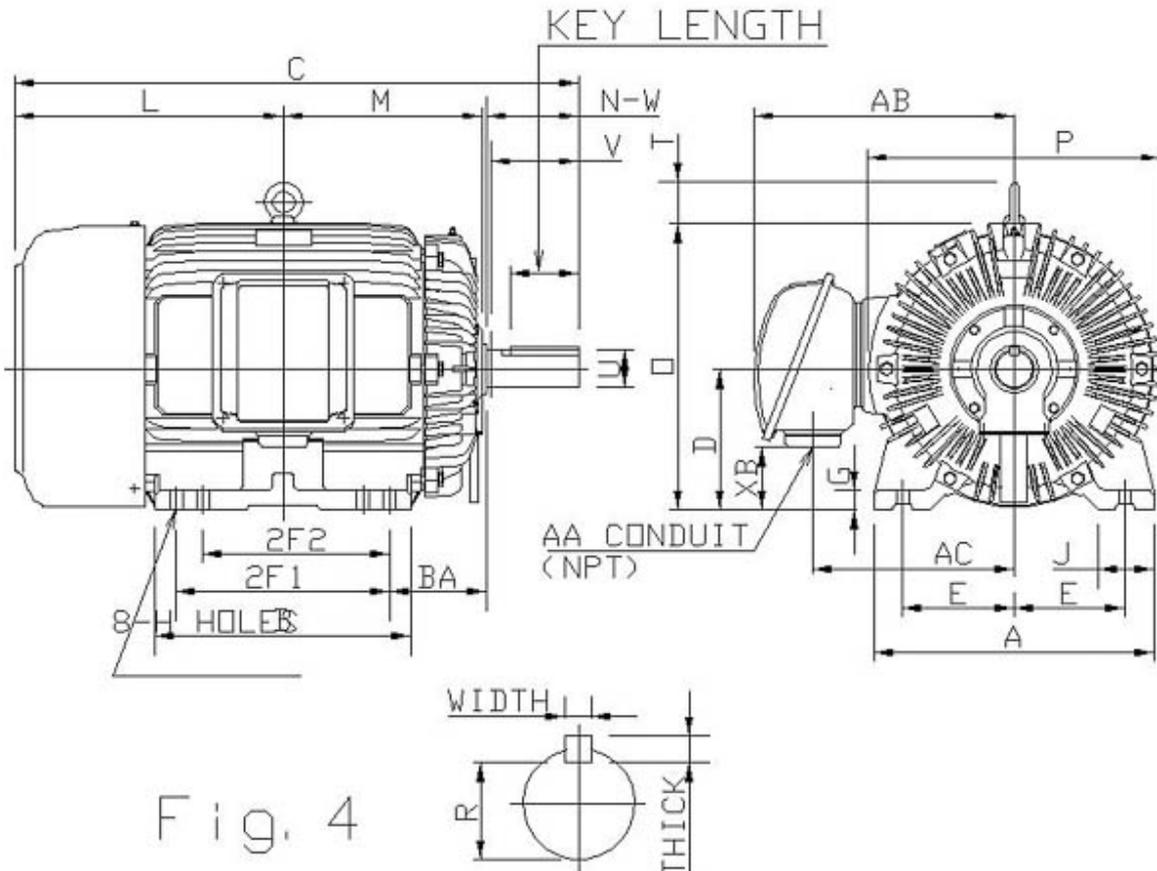


Fig. 4

Mounting					A	B	C	CL1	CL2	D	G
E	2F1	2F2	H	BA							
6.25	10.5		0.67	5.25	15.75	12.87	29.49			8	1.1

J	K	L	M	O	P	T
3.15		13.74	10.22	15.5	15.91	2.36

Terminal Housing			
AA	AB	AC	XB
2	16.07	12.2	3.59

Shaft Extension			Key			Keyseat
N-W	U	V	Width	Thick	Length	R
5.25	2.125	5.15	0.5	0.5	3.91	1.845

Bearings		Weight Lbs	Drive Method	Dimensions
DE	NDE			
6312	6310	549	Direct Coupling / Belt Drive	Inches

Technical Data Sheet

Motor Type: AEHH8N

Catalogue No: PDX02565

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
25	6	1170	324T(X)	575	60	3
Enclosure	Ins. Class	Service Factor	Time Rating	NEMA Design	Rated Amb.	Rated Altitude
TEFC	F	1.15	Continuous	C	-40 to 40 °C	<1000 m

Typical Performance

Efficiency (%)				Power Factor (%)		
Full Load		3/4 Load	1/2 Load	Full Load	3/4 Load	1/2 Load
Nom.	Min.					
93.00	91.70	93.60	93.60	83.00	80.00	71.50
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
112.18	240	200	250	6.9	24.3	146.40
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	
G	10.197	49.00	956.00	45	32	70.0

VFD Duty Information

Speed Range			VFD		S.F.
Constant Torque	Variable Torque	Constant Power	Carrier	Type	
6-60Hz	3-60Hz	60-120Hz	0	VPWM or CPWM	1.0 Only

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) T3 / T3

Additional Certifications

Other Certification

Additional Information

Bearings		Approx. Weight
DE	NDE	lbs
6312	6310	549

Nameplate Drawing

Optim TEFC

TYPE	AEHH8N	CAT. NO.	PDX02565		
OUTPUT	25 HP 18.65 kW	FRAME	324T(X)	TEFC	
R.P.M.	1170	POLE	6	INS.	F
VOLTS	575	PHASE	3	Hz	60
AMPS	24.3	CODE	G	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 93.00		MIN. EFF. 91.70	
BEARINGS	6312 / 6310			RATING Cont.	
SER. NO.	TBD	DESIGN	C	WT. 549 LBS	
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	6-60Hz	60-120Hz	1.0 Only	

Connection Diagram

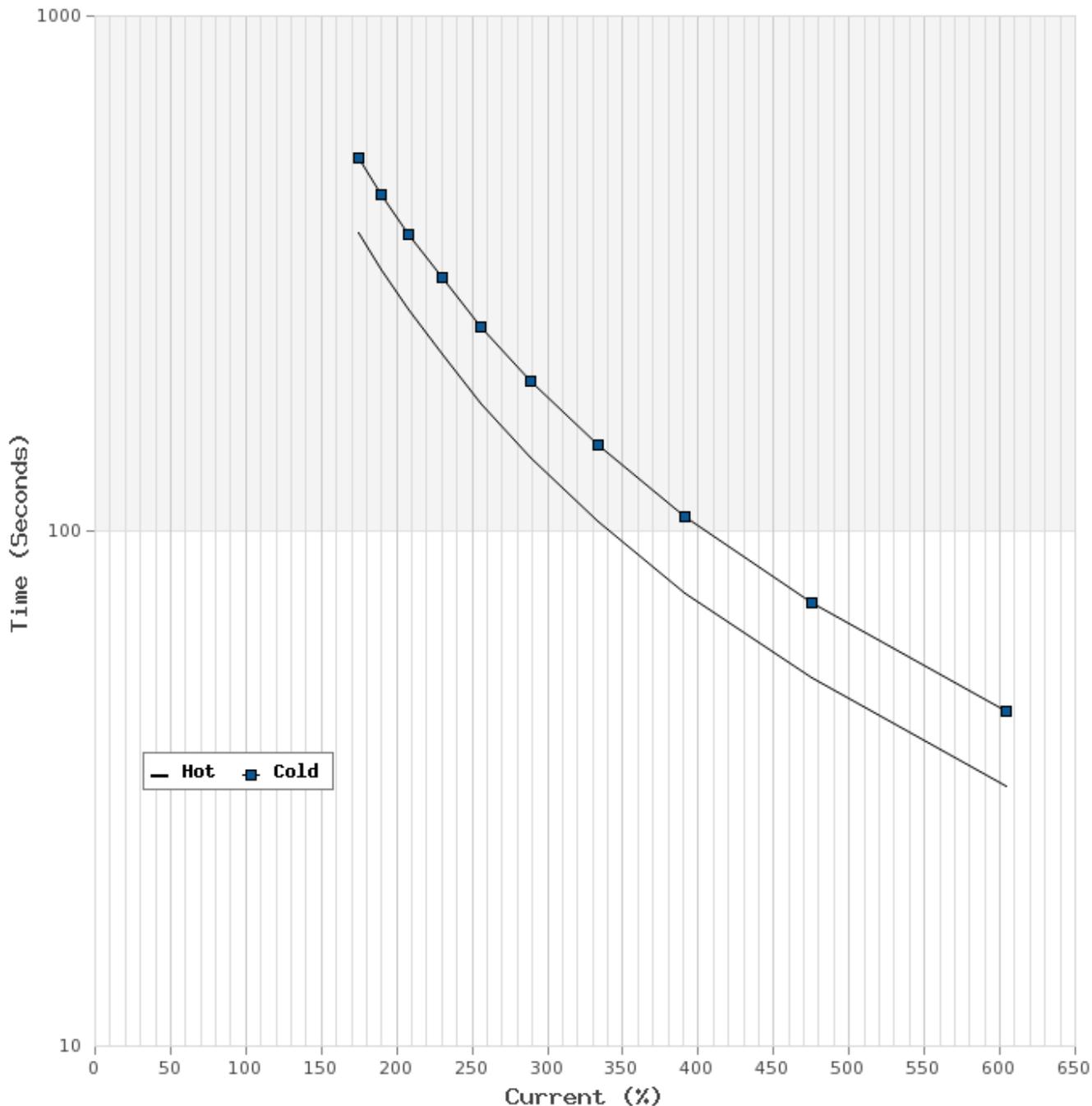


3 LEAD		SINGLE VOLTAGE			DELTA
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD_3D

Thermal Limit Curves

Motor Type: AEHH8N		Catalogue No: PDX02565		Family: Optim TEFC	
HP	25	Safe Stall Time		Full Load A	24.3 A
Voltage	575V 60Hz	Hot	32 s	% Inrush	603 %
RPM	1200	Cold	45 s	Locked Rotor A	146.40 A



T-N and I-N Curves

Motor Type: AEHH8N		Catalogue No: PDX02565		Family: Optim TEFC	
HP	25	Full Load T	112.18 lb-ft	Full Load A	24.3 A
Voltage	575V 60Hz	Locked Rotor T	240 %	Locked Rotor A	146.4 A
RPM	1200	Pull Up T	200 %	Break Down T	250 %

