

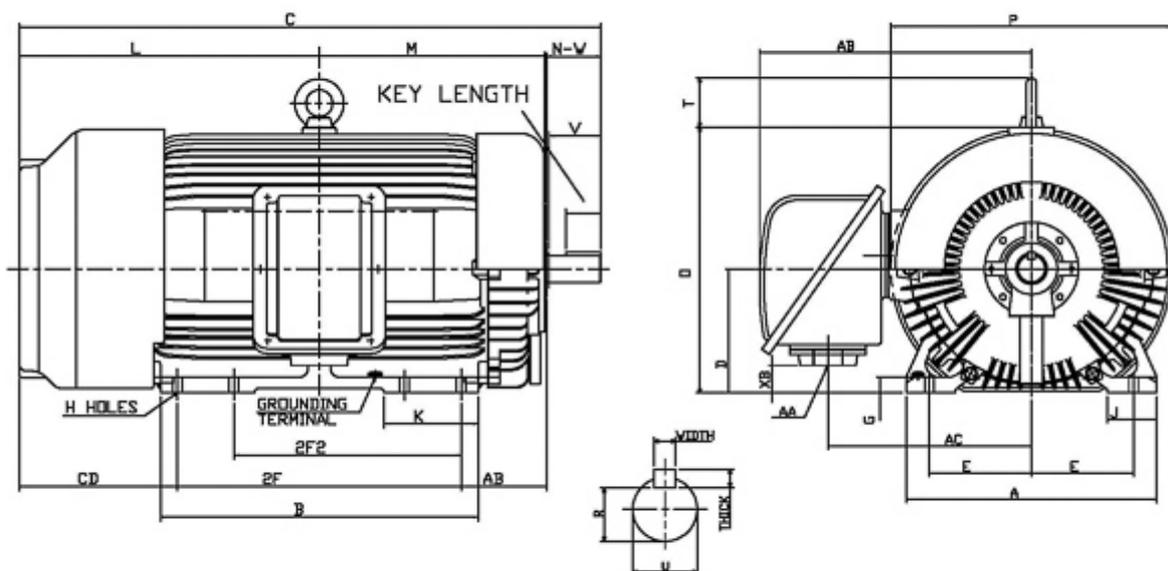
Technical Documentation

APH3002-841
Advantage Plus IEEE 841 | AEHH8B

Date: June 29, 2020

Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
APH3002-841	AEHH8B	300	2	224	Continuous	460	60	3600



Frame Size	Mounting					A	B	C	CD	D	
	E	2F	2F2	H	BA						
449TS	9	25	20	0.81	7.5	22.05	27.95	51.15	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	7.33	Width	Thick	Length	R
								0.625	0.625	3.03	2.021
Terminal Housing			Aux Box			C/D Flange					
AA	AB	AC	XB	AE	AX	BB	AH	AK	BD	AJ	BF
NPT3"	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							
4.75	2.375	4.5	6314C3	6314C3	2493	83	F	1.15	Direct Coupling	Inches	

	
	Date: June 29, 2020

Technical Data Sheet

Motor Type: AEHH8B	Catalogue No: APH3002-841
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Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
300	2	3583	449TS	460	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	<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.					
95.8	95.0	95.4	94.5	88.0	85.5	82.5
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
439.00	102	81	210	50.5	333.2	2220
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	52.500	246.00	246.00	22	15	83

VFD Duty Information

Speed Range			VFD		S.F.
Constant Torque	Variable Torque	Constant Power	Carrier	Type	
20-60Hz	3-60Hz	60-60Hz	≤ 5 kHz	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)
T3C / T3

Additional Certifications

Other Certification

Additional Information

Bearings		Approx. Weight
DE	NDE	lbs
6314C3	6314C3	2493

Nameplate Drawing

Advantage Plus IEEE 841

TYPE	AEHH8B	CAT. NO.	APH3002-841		
OUTPUT	300 HP 224 kW	FRAME	449TS	TEFC	
R.P.M.	3583	POLE	2	INS.	F
VOLTS	460	PHASE	3	Hz	60
AMPS	333.2	CODE	G	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 95.8		MIN. EFF. 95.0	
BEARINGS	6314C3 / 6314C3			RATING Cont.	
SER. NO.	TBD	DESIGN	B	WT. 2493 LBS	
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	20-60Hz	60-60Hz	1.0 Only	

Connection Diagram

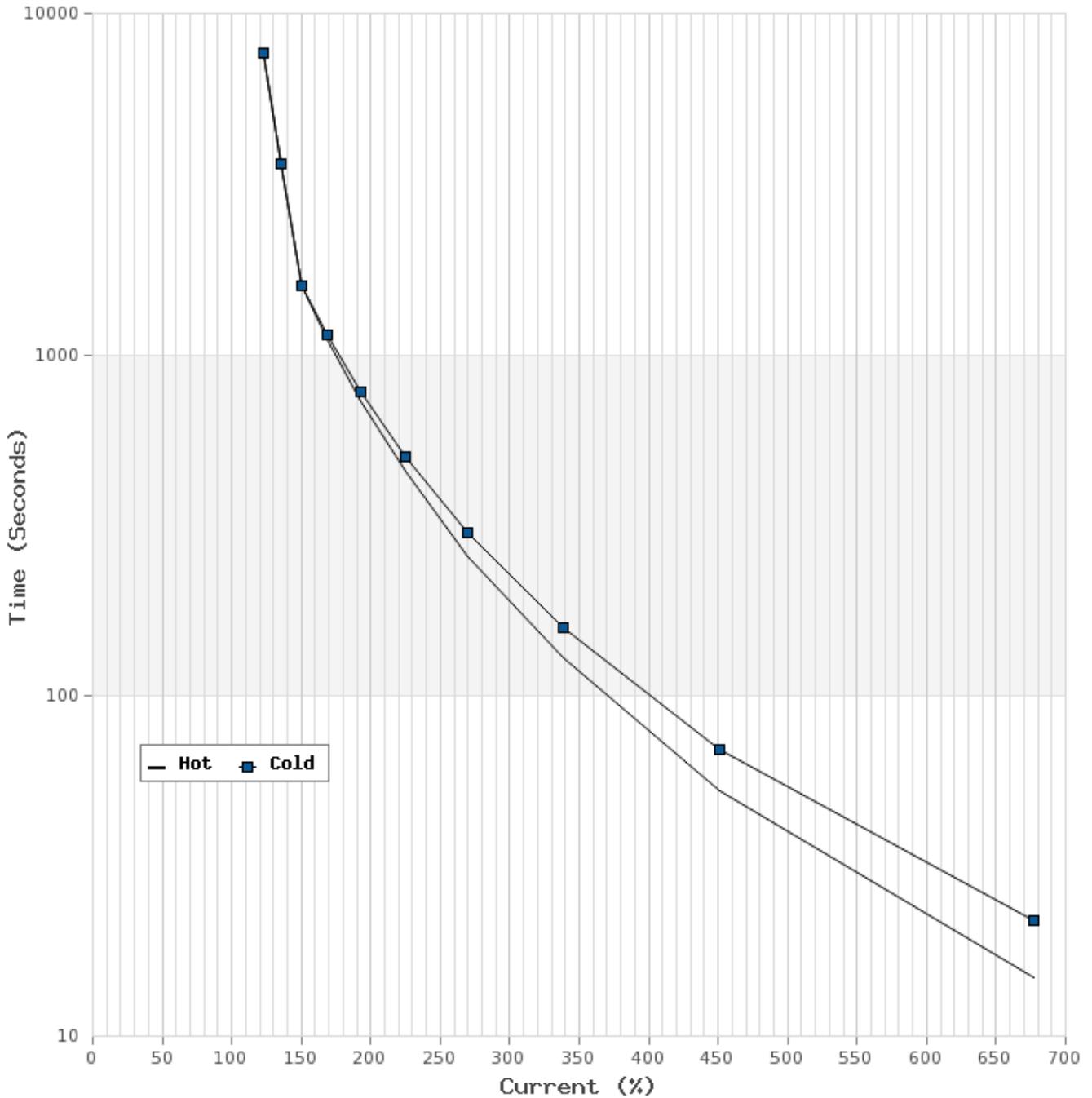


3 LEAD		SINGLE VOLTAGE			DELTA
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD_3D

Thermal Limit Curves

Motor Type: AEHH8B		Catalogue No: APH3002-841		Family: Advantage Plus IEEE 841	
HP	300	Safe Stall Time		Full Load A	333.2 A
Voltage	460V 60Hz	Hot	15 s	% Inrush	666 %
RPM	3600	Cold	22 s	Locked Rotor A	2220 A



T-N and I-N Curves

Motor Type: AEHH8B		Catalogue No: APH3002-841		Family: Advantage Plus IEEE 841	
HP	300	Full Load T	439.00 lb-ft	Full Load A	333.2 A
Voltage	460V 60Hz	Locked Rotor T	102 %	Locked Rotor A	2220.0 A
RPM	3600	Pull Up T	81 %	Break Down T	210 %

