

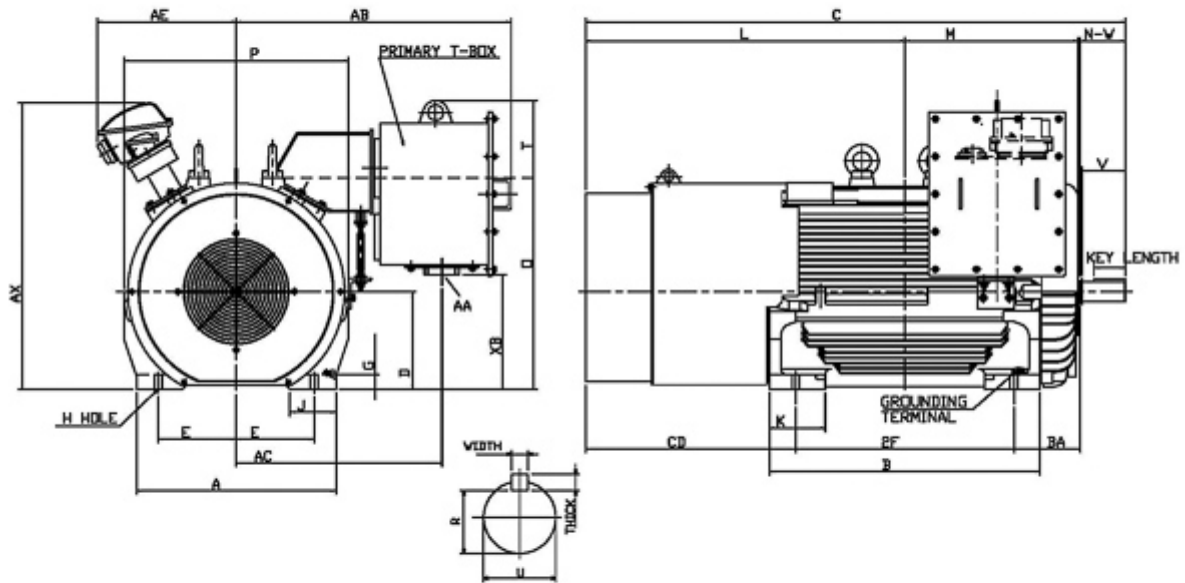
Technical Documentation

APH4002-841
Advantage Plus IEEE 841 | AEHH8B


Date: June 29, 2020

Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
APH4002-841	AEHH8B	400	2	298	Continuous	460	60	3600



Frame Size	Mounting					A	B	C	CD	D	
	E	2F	2F2	H	BA						
5009A	10	28		0.94	8.5	25.6	34.65	69.2		12.5	
G	J	K	L	M	O	P	T	Key			Keyseat
1.85	5.9	7.1	40.95	21.9	27.07	28.75	14.7	Width	Thick	Length	R
								0.625	0.625	4.01	2.275
Terminal Housing			Aux Box			C/D Flange					
AA	AB	AC	XB	AE	AX	BB	AH	AK	BD	AJ	BF
-	36.95	24.8	14.67	17.83	36.67						
Shaft Extension			Bearings		Approx. Weight Lbs	SPL dBA/3ft	Ins. Class	S.F.	Drive Method	Dimensions	
N-W	U	V	DE	NDE							
5.75	2.625	5.5	6315C3	6315C3	3850	83	F	1.15	Direct Coupling	Inches	

	
	Date: June 29, 2020

Technical Data Sheet

Motor Type: AEHH8B	Catalogue No: APH4002-841
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Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
400	2	3575	5009A	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	94.0	91.6	90.5	87.0
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
586.90	85	85	230	69.0	426.8	2900
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	65.700	315.00	315.00	35	25	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)
T3 / T3

Additional Certifications

Other Certification

Additional Information

Bearings		Approx. Weight
DE	NDE	lbs
6315C3	6315C3	3850

Nameplate Drawing

Advantage Plus IEEE 841

TYPE	AEHH8B	CAT. NO.	APH4002-841		
OUTPUT	400 HP 298 kW	FRAME	5009A	TEFC	
R.P.M.	3575	POLE	2	INS.	F
VOLTS	460	PHASE	3	Hz	60
AMPS	426.8	CODE	G	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 95.8		MIN. EFF. 95.0	
BEARINGS	6315C3 / 6315C3			RATING Cont.	
SER. NO.	TBD	DESIGN	B	WT. 3850 LBS	
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	20-60Hz	60-60Hz	1.0 Only	

Connection Diagram

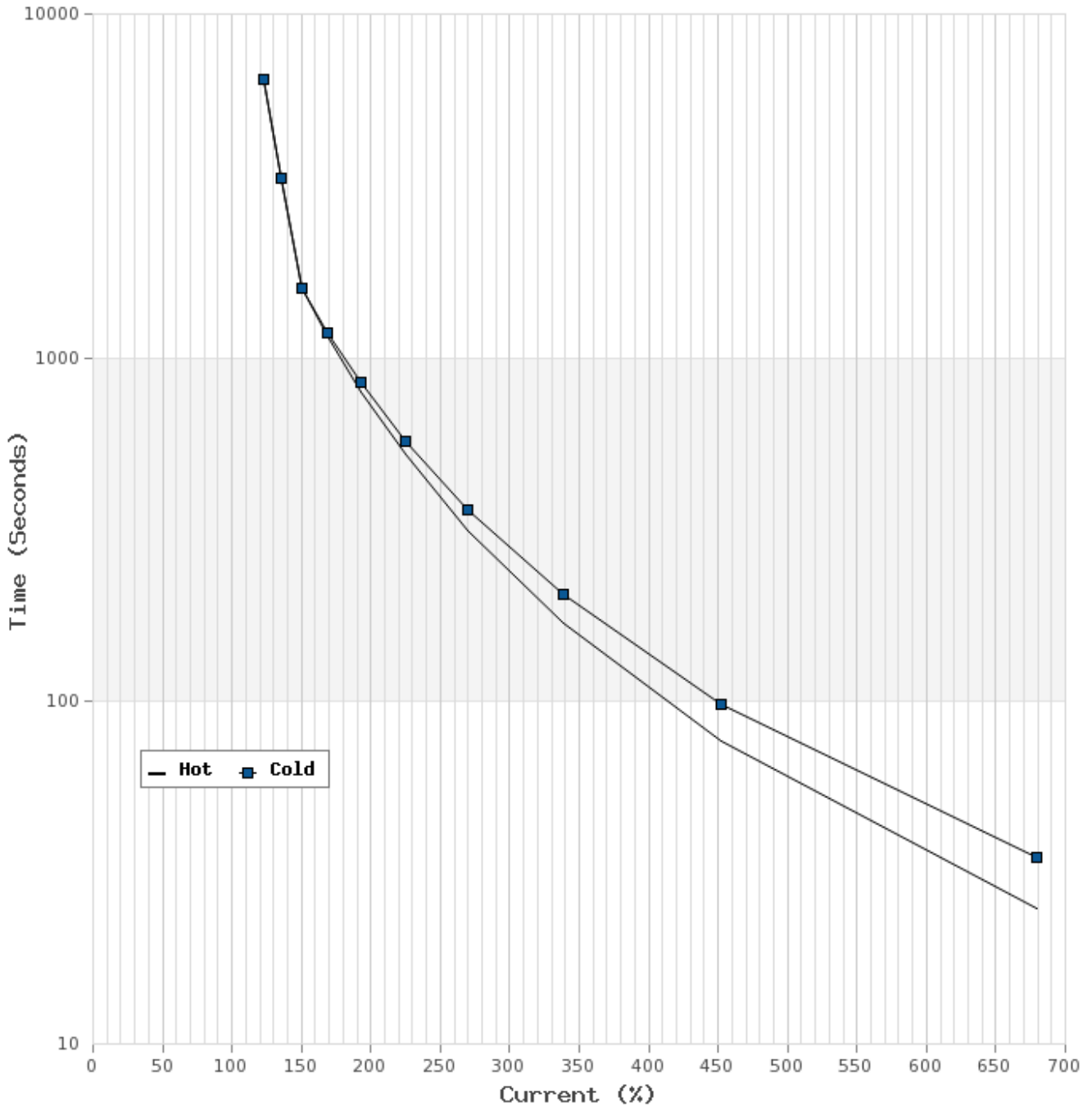


3 LEAD		SINGLE VOLTAGE			DELTA
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD_3D

Thermal Limit Curves

Motor Type: AEHH8B		Catalogue No: APH4002-841		Family: Advantage Plus IEEE 841	
HP	400	Safe Stall Time		Full Load A	426.8 A
Voltage	460V 60Hz	Hot	25 s	% Inrush	679 %
RPM	3600	Cold	35 s	Locked Rotor A	2900 A



T-N and I-N Curves

Motor Type: AEHH8B		Catalogue No: APH4002-841		Family: Advantage Plus IEEE 841	
HP	400	Full Load T	586.90 lb-ft	Full Load A	426.8 A
Voltage	460V 60Hz	Locked Rotor T	85 %	Locked Rotor A	2900.0 A
RPM	3600	Pull Up T	85 %	Break Down T	230 %

