

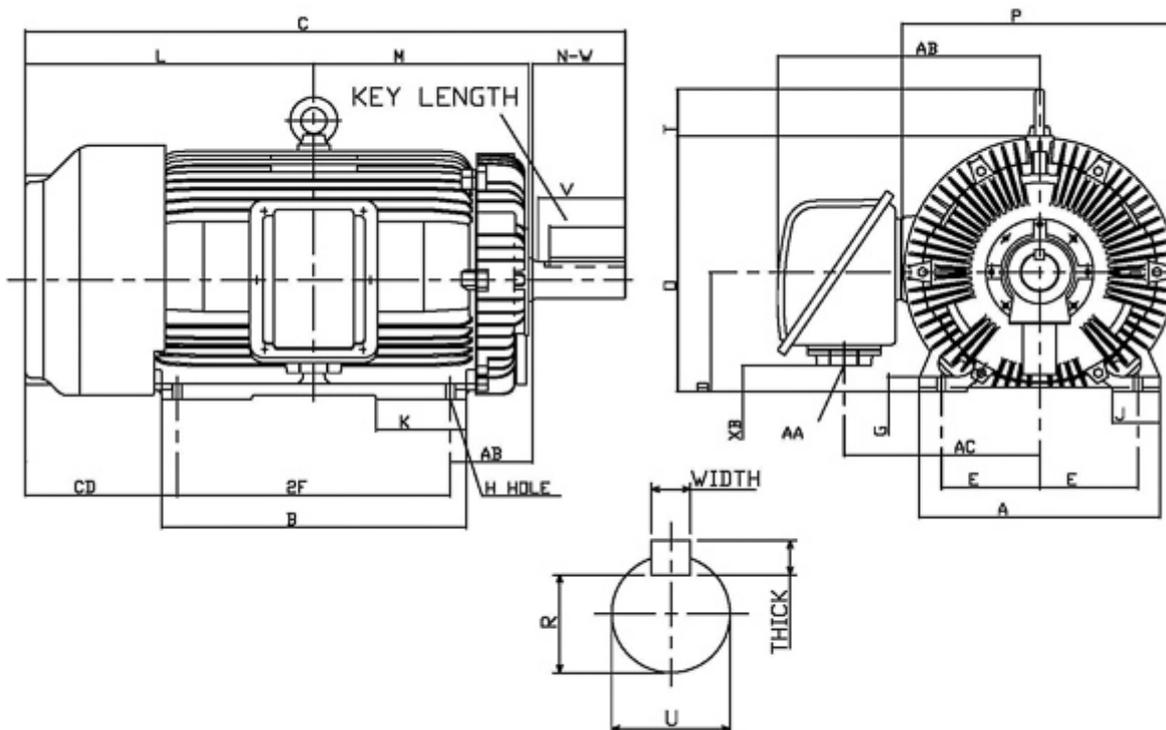
Technical Documentation

**APH1006-841**  
**Advantage Plus IEEE 841 | AEHH8B**

Date: June 29, 2020

### Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
APH1006-841	AEHH8B	100	6	75	Continuous	460	60	1200



Frame Size	Mounting					A	B	C	CD	D	
	E	2F	2F2	H	BA						
444T	9	14.5		0.81	7.5	22.05	17.5	44.4		11	
G	J	K	L	M	O	P	T	Key			Keyseat
1.4	4.35	4.35	21.15	14.4	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
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							
8.5	3.375	8	6318C3	6316C3	1694	77	F	1.15	Direct Coupling / Belt Drive	Inches	

	
	Date: June 29, 2020

### Technical Data Sheet

Motor Type: AEHH8B	Catalogue No: APH1006-841
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#### Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
100	6	1182	444T	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.					
95.0	94.1	94.5	93.6	82.5	80.0	73.0
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
444.00	140	110	230	48.0	119.5	725
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	56.000	1181.00	2953.00	21	15	77

#### VFD Duty Information

Speed Range			VFD		S.F.
Constant Torque	Variable Torque	Constant Power	Carrier	Type	
6-60Hz	3-60Hz	60-90Hz	≤ 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
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#### Additional Information

Bearings		Approx. Weight
DE	NDE	lbs
6318C3	6316C3	1694

**Nameplate Drawing**

# Advantage Plus IEEE 841

TYPE	AEHH8B	CAT. NO.	APH1006-841		
OUTPUT	100 HP 75 kW	FRAME	444T	TEFC	
R.P.M.	1182	POLE	6	INS.	F
VOLTS	460	PHASE	3	Hz	60
AMPS	119.5	CODE	G	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 95.0		MIN. EFF. 94.1	
BEARINGS	6318C3 / 6316C3			RATING Cont.	
SER. NO.	TBD	DESIGN	B	WT. 1694 LBS	
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	6-60Hz	60-90Hz	1.0 Only	

**Connection Diagram**

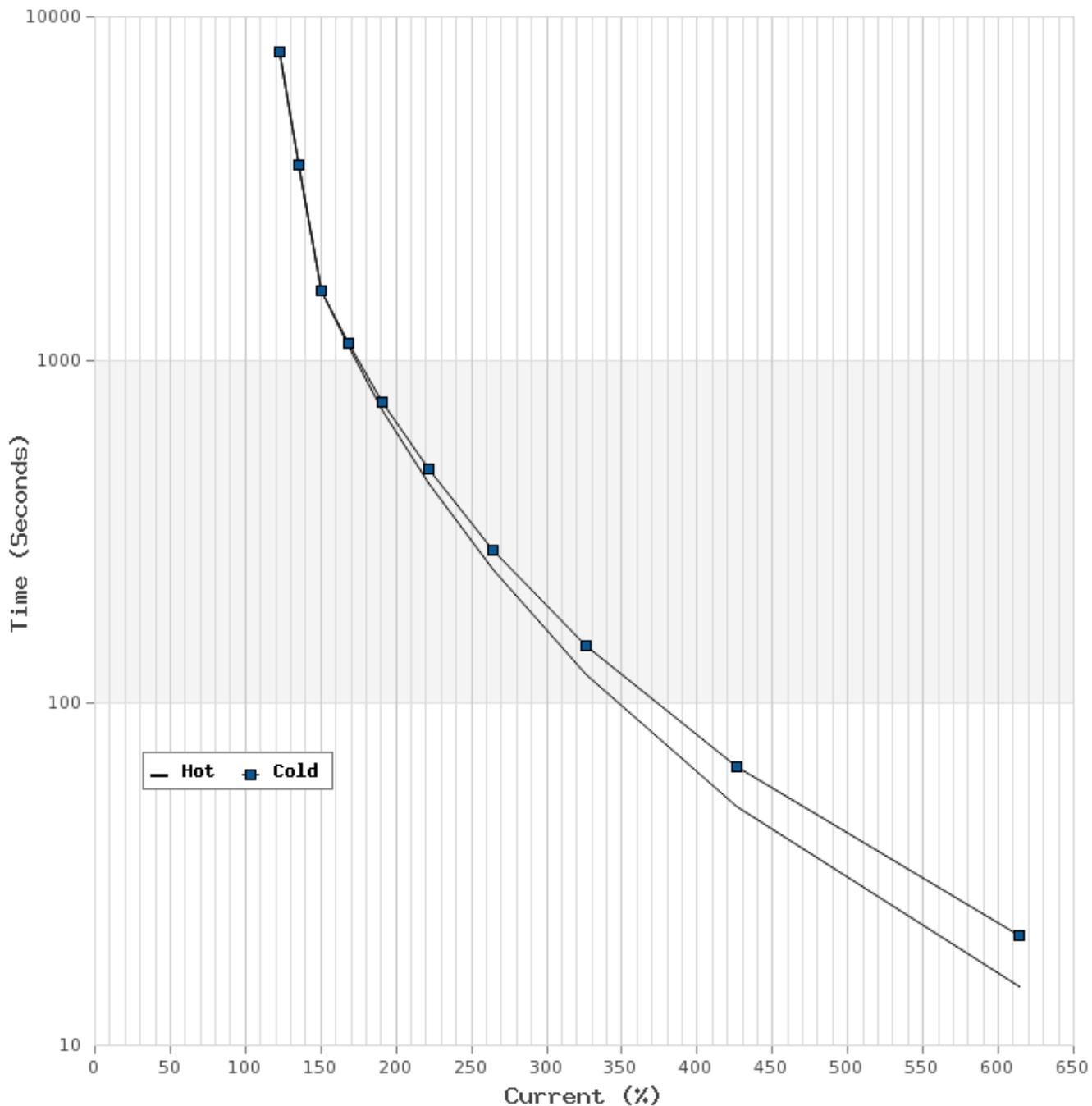


3 LEAD		SINGLE VOLTAGE			DELTA
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD\_3D

### Thermal Limit Curves

Motor Type: AEHH8B		Catalogue No: APH1006-841		Family: Advantage Plus IEEE 841	
HP	100	Safe Stall Time		Full Load A	119.5 A
Voltage	460V 60Hz	Hot	15 s	% Inrush	607 %
RPM	1200	Cold	21 s	Locked Rotor A	725 A



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

Motor Type: AEHH8B		Catalogue No: APH1006-841		Family: Advantage Plus IEEE 841	
HP	100	Full Load T	444.00 lb-ft	Full Load A	119.5 A
Voltage	460V 60Hz	Locked Rotor T	140 %	Locked Rotor A	725.0 A
RPM	1200	Pull Up T	110 %	Break Down T	230 %

