

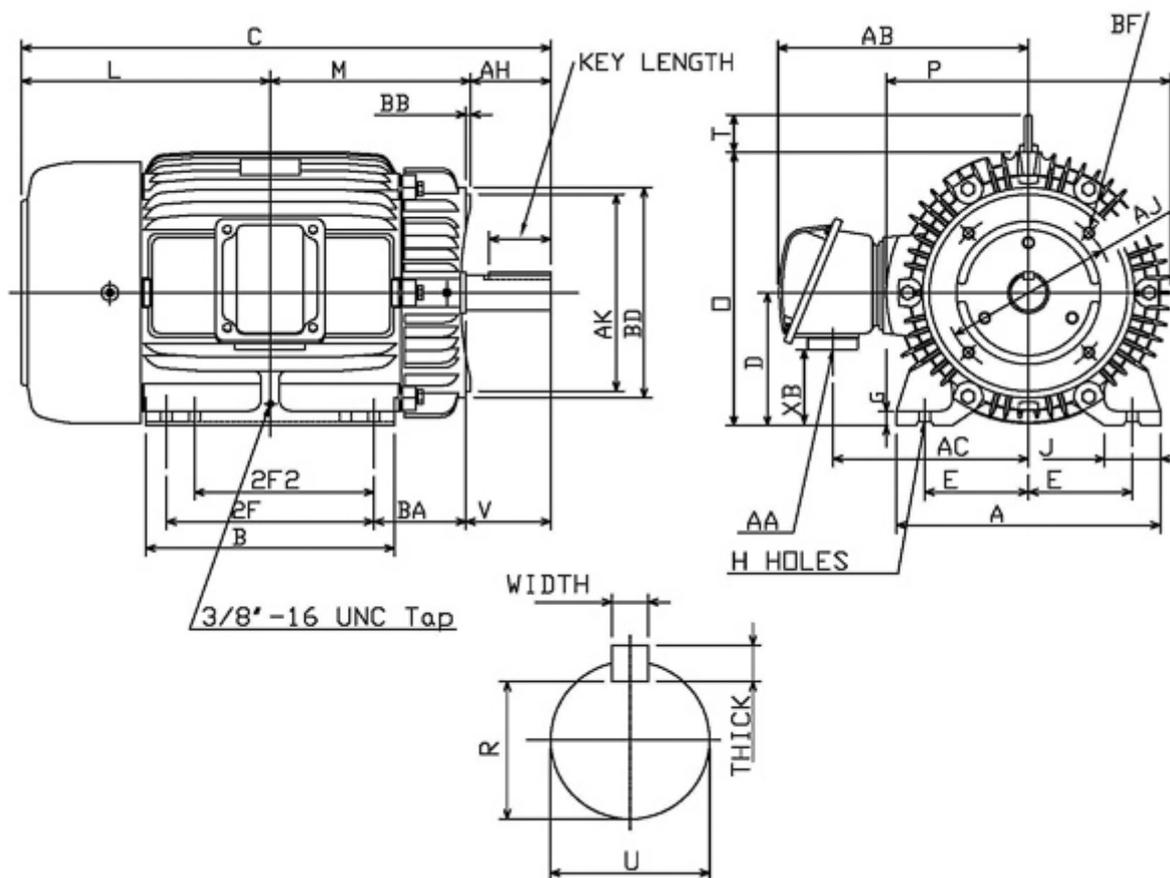
Technical Documentation

APH02025C-841
Advantage Plus IEEE 841 | AEHH8B

Date: August 7, 2020

Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
APH02025C-841	AEHH8B	20	2	15	Continuous	575	60	3600



Frame Size	Mounting					A	B	C	CD	D
	E	2F	2F2	H	BA					
256TC	5	10	8.25	0.53	4.25	11.81	11.81	25.52		6.25

G	J	K	L	M	O	P	T	Key			Keyseat R
								Width	Thick	Length	
0.66	1.95		12.27	8.93	12.8	13.15	2.01	0.375	0.375	2.91	1.416

Terminal Housing				Aux Box		C/D Flange					
AA	AB	AC	XB	AE	AX	BB	AH	AK	BD	AJ	BF
NPT11/4 "	11.3	8.86	3.22								

Shaft Extension			Bearings		Approx. Weight Lbs	SPL dBA/3ft	Ins. Class	S.F.	Drive Method	Dimensions
N-W	U	V	DE	NDE						
4	1.625	3.9	6309ZC3	6307ZC3	345	73	F	1.15	Direct Coupling / Belt Drive	Inches

 MOTORS (CANADA) INC.	
	Date: August 7, 2020

Technical Data Sheet

Motor Type: AEHH8B	Catalogue No: APH02025C-841
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Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
20	2	3520	256TC	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	<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.					
92.4	91.0	93.0	93.6	92.5	91.5	88.0
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
29.83	210	180	260	3.3	17.5	116
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	1.407	21.00	42.00	17	12	73

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 / T3B

Additional Certifications

Other Certification

Additional Information

Bearings		Approx. Weight
DE	NDE	lbs
6309ZC3	6307ZC3	345

Nameplate Drawing

Advantage Plus IEEE 841

TYPE	AEHH8B	CAT. NO.	APH02025C-841		
OUTPUT	20 HP 15 kW	FRAME	256TC	TEFC	
R.P.M.	3520	POLE	2	INS.	F
VOLTS	575	PHASE	3	Hz	60
AMPS	17.5	CODE	G	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 92.4		MIN. EFF. 91.0	
BEARINGS	6309ZC3 / 6307ZC3			RATING Cont.	
SER. NO.	TBD	DESIGN	B	WT. 345 LBS	
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	6-60Hz	60-90Hz	1.0 Only	

Connection Diagram

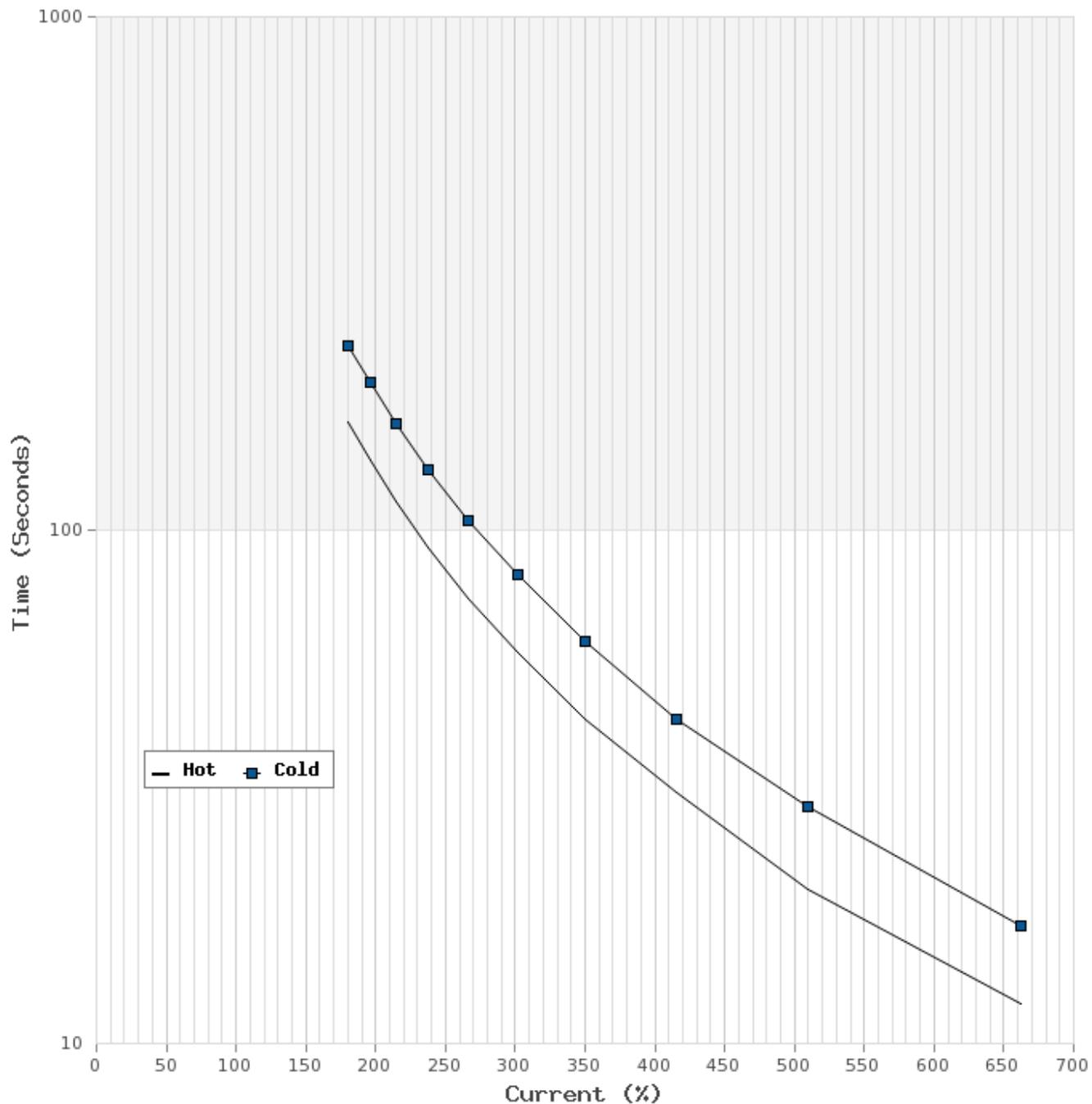


3 LEAD		SINGLE VOLTAGE			DELTA
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD_3D

Thermal Limit Curves

Motor Type: AEHH8B		Catalogue No: APH02025C-841		Family: Advantage Plus IEEE 841	
HP	20	Safe Stall Time		Full Load A	17.5 A
Voltage	575V 60Hz	Hot	12 s	% Inrush	662 %
RPM	3600	Cold	17 s	Locked Rotor A	116 A



T-N and I-N Curves

Motor Type: AEHH8B		Catalogue No: APH02025C-841		Family: Advantage Plus IEEE 841	
HP	20	Full Load T	29.83 lb-ft	Full Load A	17.5 A
Voltage	575V 60Hz	Locked Rotor T	210 %	Locked Rotor A	116.0 A
RPM	3600	Pull Up T	180 %	Break Down T	260 %

