

	
	Date: June 29, 2020

Technical Documentation

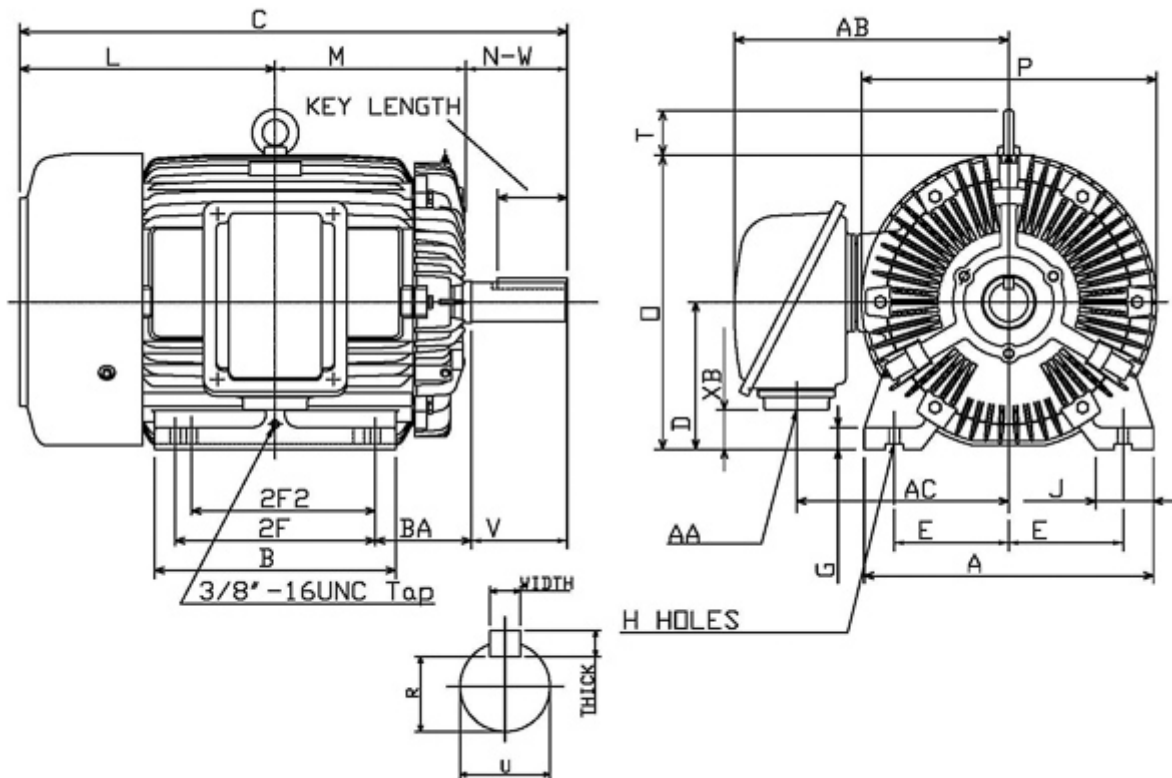
APH07545-841

Advantage Plus IEEE 841 | AEHH8B

Date: June 29, 2020

Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
APH07545-841	AEHH8B	75	4	56	Continuous	575	60	1800



Frame Size		Mounting					A	B	C	CD	D
		E	2F	2F2	H	BA					
365T		7	12.25	11.25	0.66	5.88	17.7	14.76	33.55		9

G	J	K	L	M	O	P	T	Key			Keyseat
								Width	Thick	Length	R
1.32	3.54		15.67	11.59	17.99	18.03	2.76	0.625	0.625	4.28	2.021

Terminal Housing				Aux Box		C/D Flange					
AA	AB	AC	XB	AE	AX	BB	AH	AK	BD	AJ	BF
NPT3"	16.81	12.99	2.39								

Shaft Extension			Bearings		Approx. Weight Lbs	SPL dBA/3ft	Ins. Class	S.F.	Drive Method	Dimensions
N-W	U	V	DE	NDE						
5.88	2.375	5.75	6313ZC3	6213ZC3	972	79	F	1.15	Direct Coupling / Belt Drive	Inches

	
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Technical Data Sheet

Motor Type: AEHH8B	Catalogue No: APH07545-841
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Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
75	4	1775	365T	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.					
95.4	94.5	95.4	95.0	86.5	83.5	75.5
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
221.80	200	165	250	20.8	68.1	434
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	14.674	338.00	618.00	17	12	79

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

Additional Certifications

CSA Certified	Other Certification
Class I, Div 2, Groups B, C & D Class I, Zone 2, Groups IIB+H2, IIB & IIA	
Temp Code (Sinewave / VFD)	T3C / T3

Additional Information

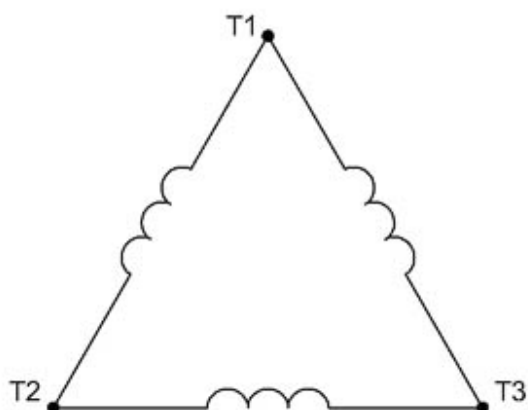
Bearings		Approx. Weight
DE	NDE	lbs
6313ZC3	6213ZC3	972

Nameplate Drawing

Advantage Plus IEEE 841

TYPE	AEHH8B	CAT. NO.	APH07545-841		
OUTPUT	75 HP 56 kW	FRAME	365T	TEFC	
R.P.M.	1775	POLE	4	INS.	F
VOLTS	575	PHASE	3	Hz	60
AMPS	68.1	CODE	G	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 95.4		MIN. EFF. 94.5	
BEARINGS	6313ZC3 / 6213ZC3			RATING Cont.	
SER. NO.	TBD		DESIGN	B	WT. 972 LBS
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	6-60Hz	60-90Hz	1.0 Only	

Connection Diagram

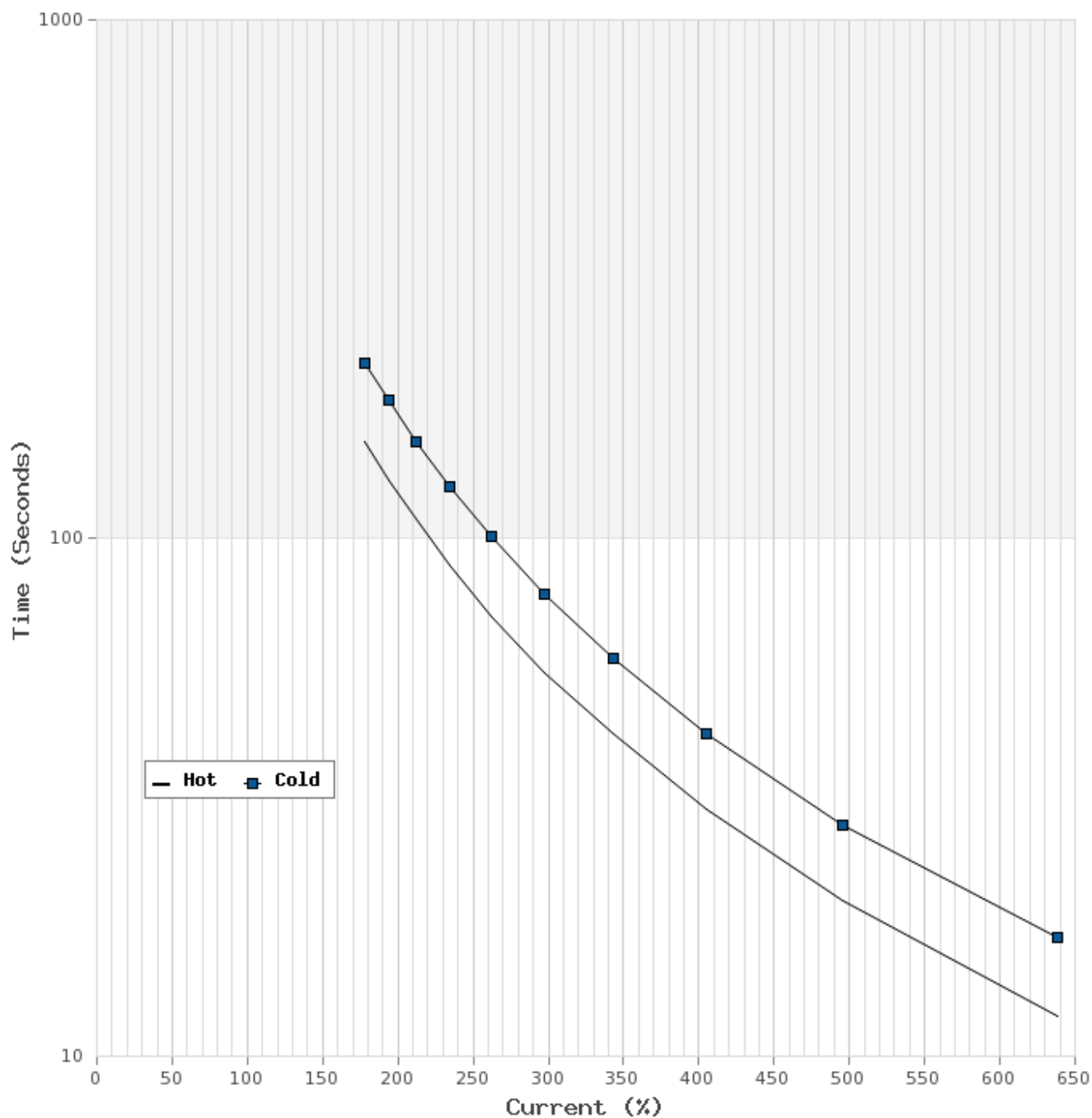


3 LEAD		SINGLE VOLTAGE			DELTA
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD_3D

Thermal Limit Curves

Motor Type: AEHH8B		Catalogue No: APH07545-841		Family: Advantage Plus IEEE 841	
HP	75	Safe Stall Time		Full Load A	68.1 A
Voltage	575V 60Hz	Hot	12 s	% Inrush	637 %
RPM	1800	Cold	17 s	Locked Rotor A	434 A



T-N and I-N Curves

Motor Type: AEHH8B		Catalogue No: APH07545-841		Family: Advantage Plus IEEE 841	
HP	75	Full Load T	221.80 lb-ft	Full Load A	68.1 A
Voltage	575V 60Hz	Locked Rotor T	200 %	Locked Rotor A	434.0 A
RPM	1800	Pull Up T	165 %	Break Down T	250 %

