

Technical Documentation

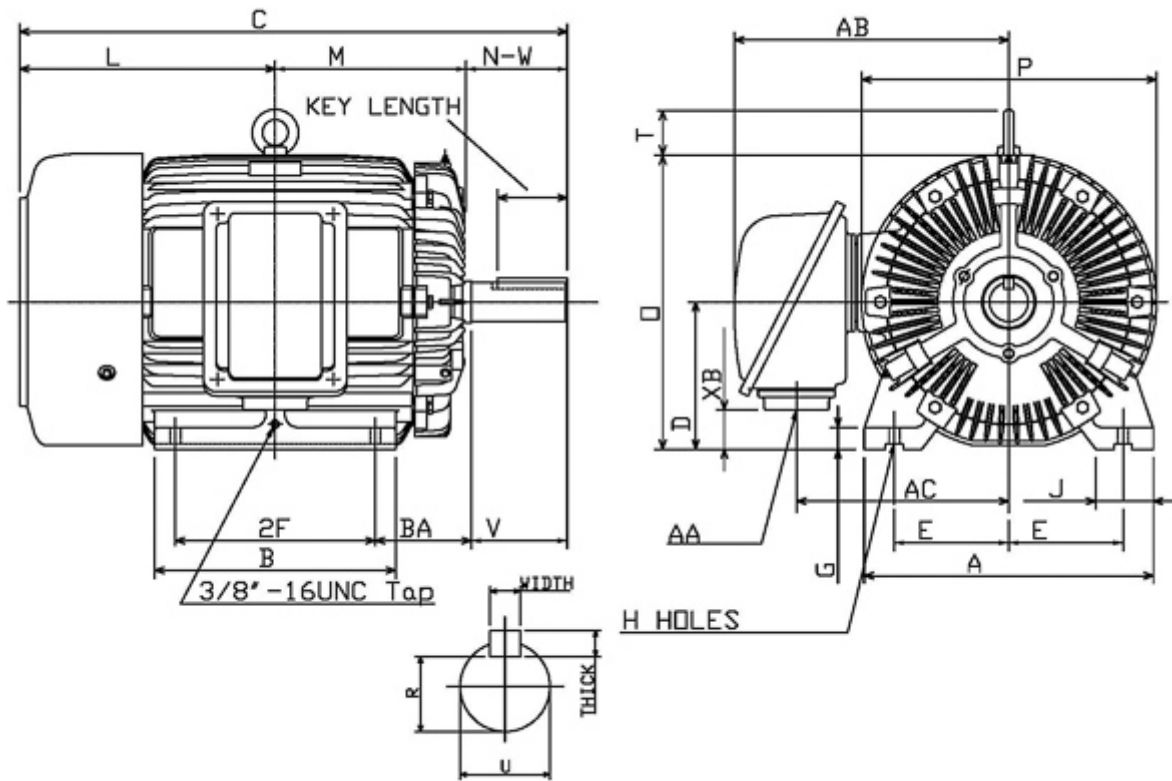
APH03085-841

Advantage Plus IEEE 841 | AEHH8B

Date: June 29, 2020

Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
APH03085-841	AEHH8B	30	8	22	Continuous	575	60	900



Frame Size		Mounting				A	B	C	CD	D	
		E	2F	2F2	H						BA
364T		7	11.25		0.66	5.88	17.7	13.78	32.57		9

G	J	K	L	M	O	P	T	Key			Keyseat
								Width	Thick	Length	R
1.32	3.54		15.17	11.09	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	856	71	F	1.15	Direct Coupling / Belt Drive	Inches

	
	Date: June 29, 2020

Technical Data Sheet

Motor Type: AEHH8B	Catalogue No: APH03085-841
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Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
30	8	885	364T	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.					
93.0	91.7	93.0	92.4	77.5	72.0	62.0
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
178.00	200	170	200	14.5	31.2	174
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	17.938	769.00	1833.00	50	35	71

VFD Duty Information

Speed Range			VFD		S.F.
Constant Torque	Variable Torque	Constant Power	Carrier	Type	
6-60Hz	3-60Hz	60-120Hz	≤ 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)	T3A / T3A

Additional Information

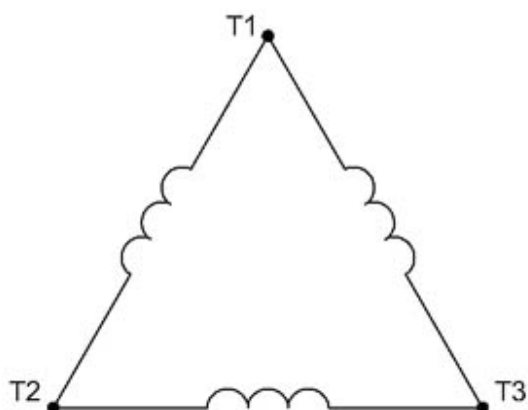
Bearings		Approx. Weight
DE	NDE	lbs
6313ZC3	6213ZC3	856

Nameplate Drawing

Advantage Plus IEEE 841

TYPE	AEHH8B	CAT. NO.	APH03085-841		
OUTPUT	30 HP 22 kW	FRAME	364T	TEFC	
R.P.M.	885	POLE	8	INS.	F
VOLTS	575	PHASE	3	Hz	60
AMPS	31.2	CODE	G	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 93.0		MIN. EFF. 91.7	
BEARINGS	6313ZC3 / 6213ZC3			RATING Cont.	
SER. NO.	TBD		DESIGN	B	WT. 856 LBS
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	6-60Hz	60-120Hz	1.0 Only	

Connection Diagram

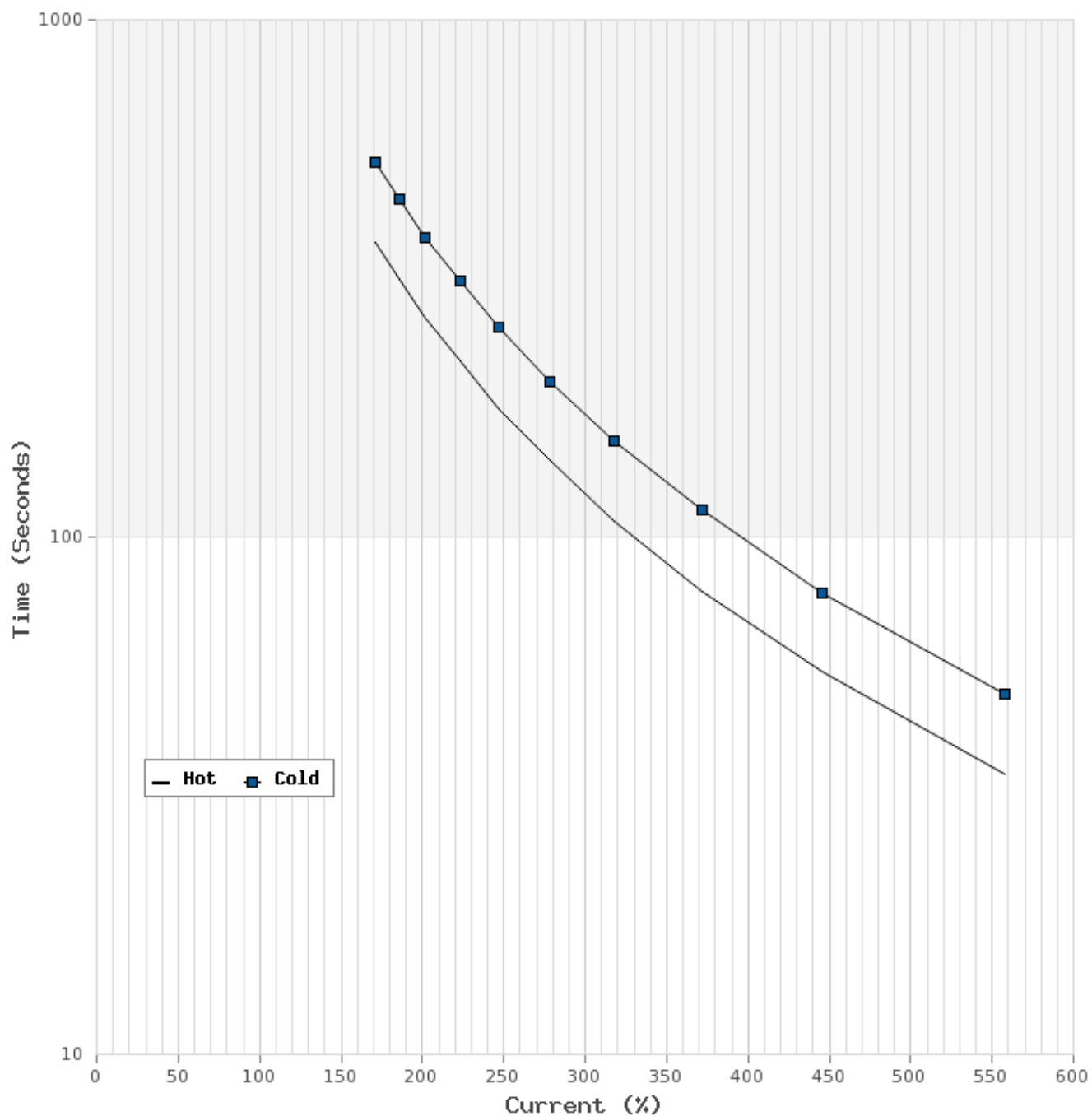


3 LEAD		SINGLE VOLTAGE			DELTA
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD_3D

Thermal Limit Curves

Motor Type: AEHH8B		Catalogue No: APH03085-841		Family: Advantage Plus IEEE 841	
HP	30	Safe Stall Time		Full Load A	31.2 A
Voltage	575V 60Hz	Hot	35 s	% Inrush	558 %
RPM	900	Cold	50 s	Locked Rotor A	174 A



T-N and I-N Curves

Motor Type: AEHH8B		Catalogue No: APH03085-841		Family: Advantage Plus IEEE 841	
HP	30	Full Load T	178.00 lb-ft	Full Load A	31.2 A
Voltage	575V 60Hz	Locked Rotor T	200 %	Locked Rotor A	174.0 A
RPM	900	Pull Up T	170 %	Break Down T	200 %

