



Technical Documentation

APH00265-841

Advantage Plus IEEE 841 | AEHH8B

Beaver Electrical Machinery

Date: June 7, 2022



Dimensional Drawing

Catalogue	Type	HP	RPM	Voltage	Hz	Frame Size
APH00265-841	AEHH8B	2	1200	575	60	184T

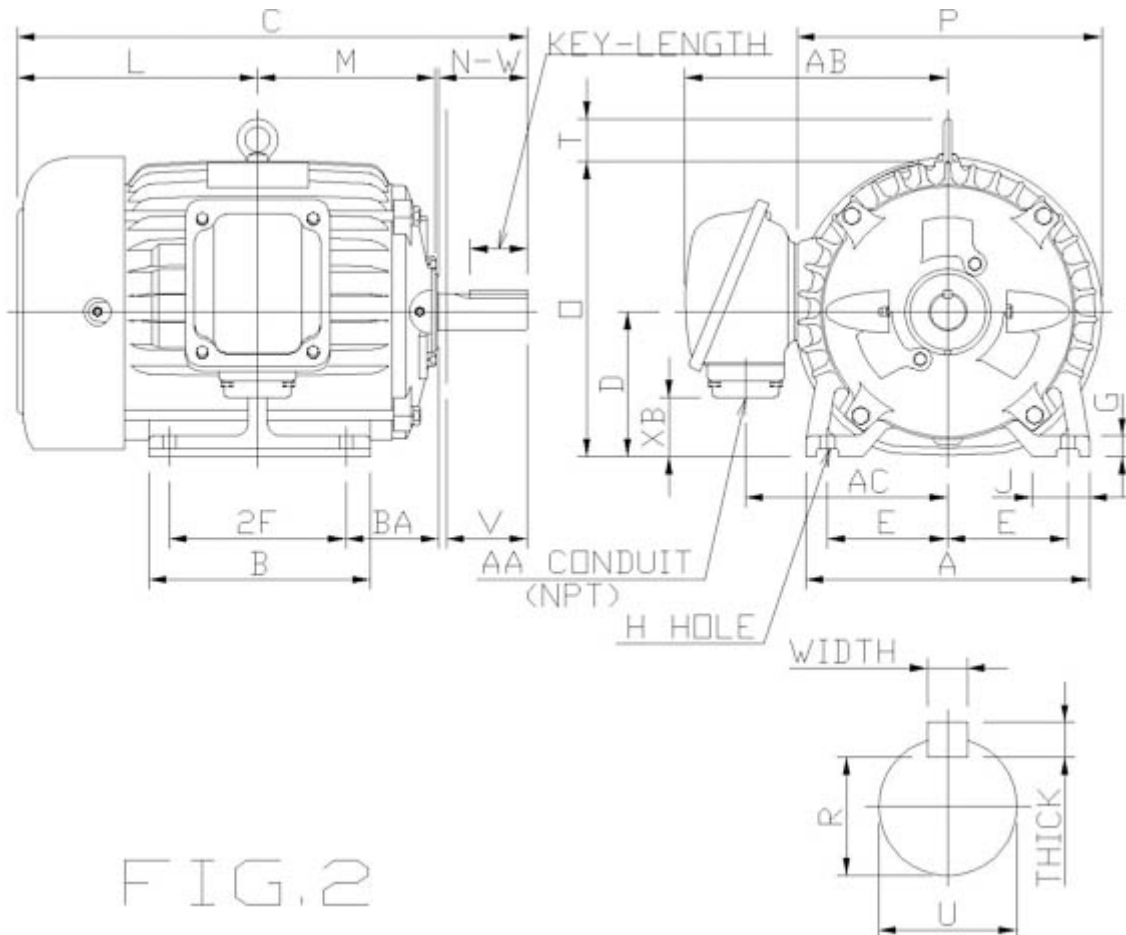


FIG. 2



Mounting					A	B	C	CL1	CL2	D	G
E	2F1	2F2	H	BA							
3.75	5.5	4.5	0.41	2.75	8.82	6.89	15.91			4.5	0.65

J	K	L	M	O	P	T
1.75		7.66	5.37	9.17	9.61	1.3

Terminal Housing			
AA	AB	AC	XB
NPT3/4"	8.31	6.38	1.86

Shaft Extension			Key			Keyseat
N-W	U	V	Width	Thick	Length	R
2.75	1.125	2.7	0.25	0.25	1.78	0.986

Bearings		Weight Lbs	Drive Method	Dimensions
DE	NDE			
6306ZC3	6306ZC3	108	Direct Coupling / Belt Drive	Inches

	Beaver Electrical Machinery	
	Date: June 7, 2022	

Technical Data Sheet

Motor Type: AEHH8B	Catalogue No: APH00265-841
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Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
2	6	1170	184T	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.					
88.5	86.5	88.5	86.5	70.5	63	50.5
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
8.98	180	150	270	1.4	2.4	20
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	
L	0.423	30	219	95	67	53

VFD Duty Information

Max HP	Current (A)	Speed Range		VFD		S.F.
		Constant Torque	Variable Torque	Carrier Hz	Type	
2	2.4	6-60Hz	3-60Hz	3-6kHz	VPWM or CPWM	1

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 / T3C

Additional Certifications

Other Certification

Additional Information

Bearings		Approx. Weight
DE	NDE	lbs
6306ZC3	6306ZC3	108

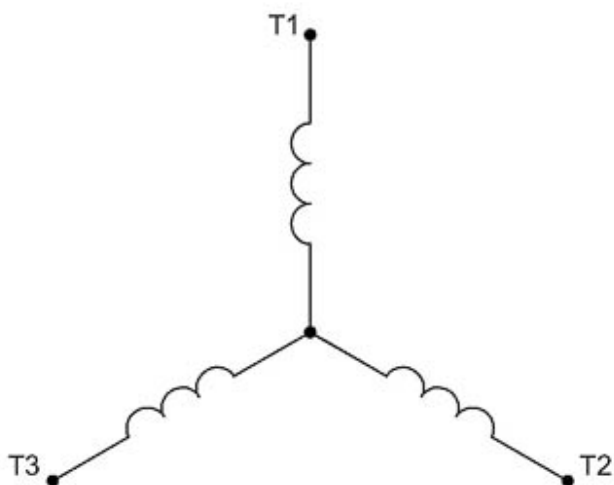
	Beaver Electrical Machinery	
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Nameplate Drawing

Advantage Plus IEEE 841					
TYPE	AEHH8B	CAT. NO.	APH00265-841		
OUTPUT	2 HP 1.49 kW	FRAME	184T	TEFC	
R.P.M.	1170	POLE	6	INS.	F
VOLTS	575	PHASE	3	Hz	60
AMPS	2.4	CODE	L	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 88.5		MIN. EFF. 86.5	
BEARINGS	6306ZC3 / 6306ZC3			RATING Cont.	
SER. NO.	TBD	DESIGN	B	WT. 108 LBS	
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	6-60Hz	60-120Hz	1	



Connection Diagram



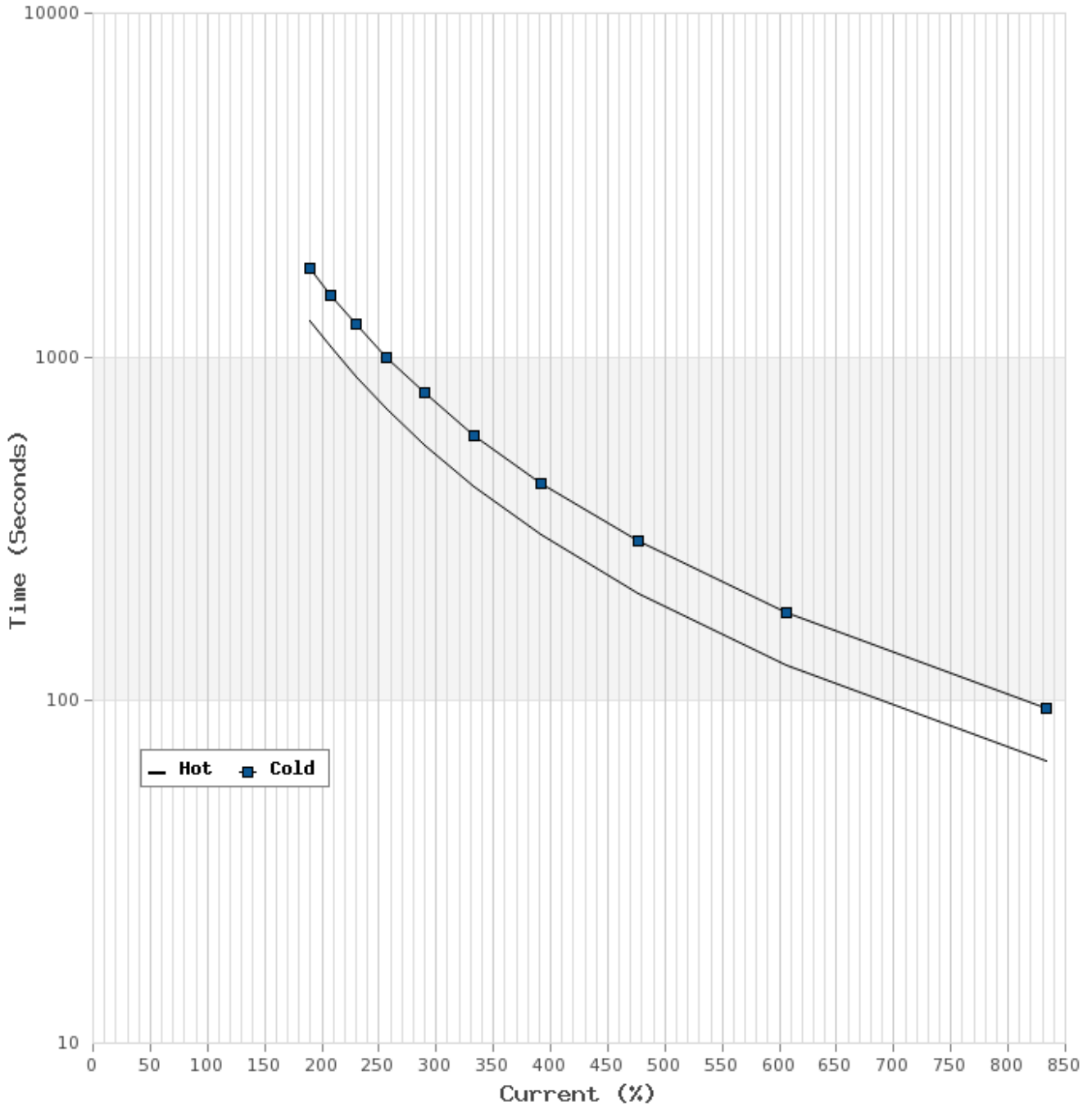
3 LEAD		SINGLE VOLTAGE			WYE
VOLTAGE	CONN.	L1	L2	L3	
-	WYE	1	2	3	

WD_3Y



Thermal Limit Curves

Motor Type: AEHH8B		Catalogue No: APH00265-841		Family: Advantage Plus IEEE 841	
HP	2	Safe Stall Time		Full Load A	2.4 A
Voltage	575V 60Hz	Hot	67 s	% Inrush	833 %
RPM	1200	Cold	95 s	Locked Rotor A	20 A





T-N and I-N Curves

Motor Type: AEHH8B		Catalogue No: APH00265-841		Family: Advantage Plus IEEE 841	
HP	2	Full Load T	8.98 lb-ft	Full Load A	2.4 A
Voltage	575V 60Hz	Locked Rotor T	180 %	Locked Rotor A	20.0 A
RPM	1200	Pull Up T	150 %	Break Down T	270 %

