

	Beaver Electrical Machinery Ltd.	
	No: 015829	
	Date: May 8, 2025	

Technical Documentation

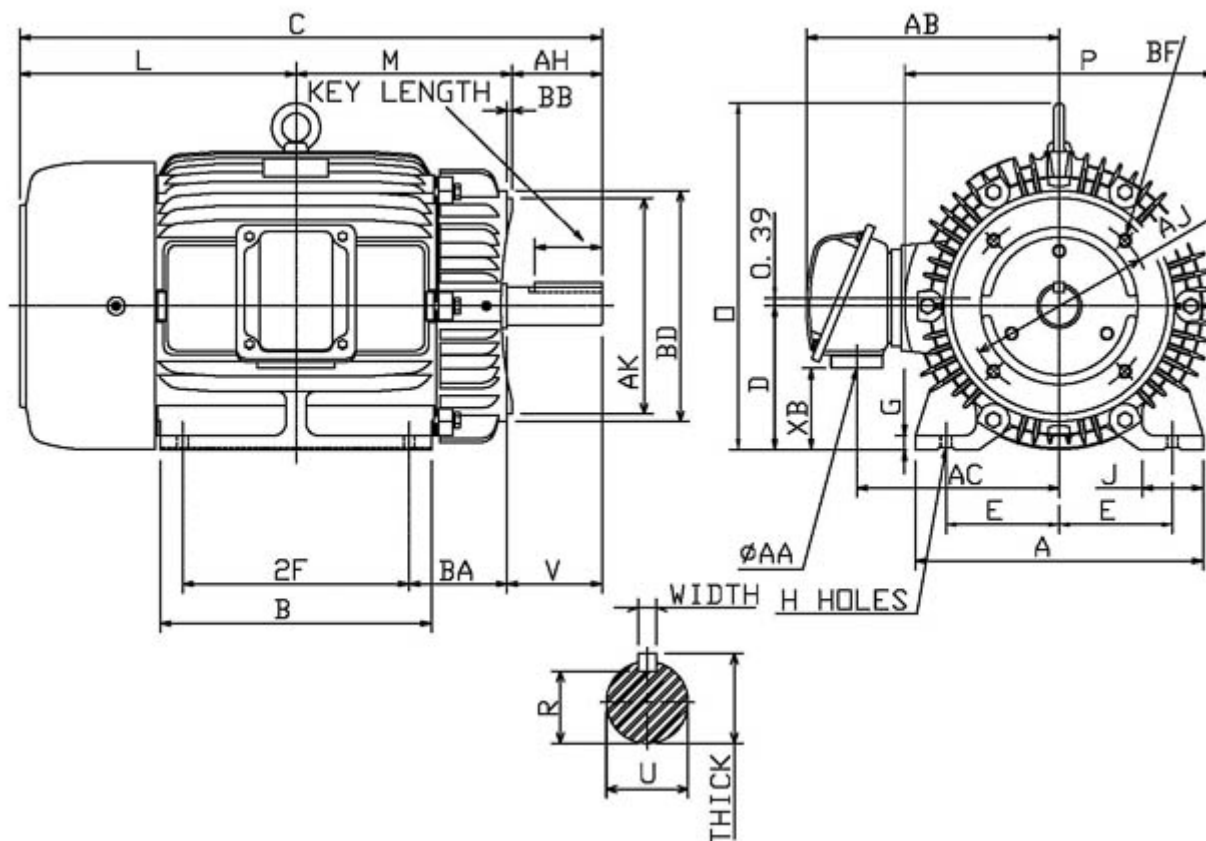
APH7/565C-841
Advantage Plus IEEE 841 | AEHH8B

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Dimensional Drawing

Catalogue	Type	HP	RPM	Voltage	Hz	Frame Size
APH7/565C-841	AEHH8B	7.5	1200	575	60	254TC



Mounting					A	B	C	CL1	CL2	D	G
E	2F1	2F2	H	BA							
5	8.25		0.53	4.25	11.8	9.85	23.7			6.25	0.65
J	K	AK	AJ	L	M	O	P	T	BD	BB	BF
1.95		8.5	7.25	11.33	8.06	12.83	13.15	1.97	9.92	0.25	1/2-13UNC
								Terminal Housing			
								AA	AB	AC	XB
								1.25 NPT	11.3	8.86	3.22

Shaft Extension			Key			Keyseat
N-W	U	V	Width	Thick	Length	R
4	1.625	3.9	0.375	0.375	2.91	1.416

Bearings		Weight Lbs	Drive Method	Dimensions
DE	NDE			
6309ZC3	6307ZC3	282	Direct Coupling / Belt Drive	Inches

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Technical Data Sheet

Motor Type: AEHH8B	Catalogue No: APH7/565C-841
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Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
7.5	6	1170	254TC	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.					
91.00	89.50	91.00	89.50	80.50	75.00	64.00
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
33.66	240	215	270	3.5	7.7	51.20
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	
H	2.158	104.00	375.00	36	25	59.0

VFD Duty Information

MAX HP	Current (A)	Speed Range			VFD		S.F.
		CT	VT	CHP	Carrier Hz	Type	
7.5	7.67	6-60Hz	3-60Hz	60-120Hz	3-6kHz	VPWM or CPWM	1.0

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 / T3B

Additional Information

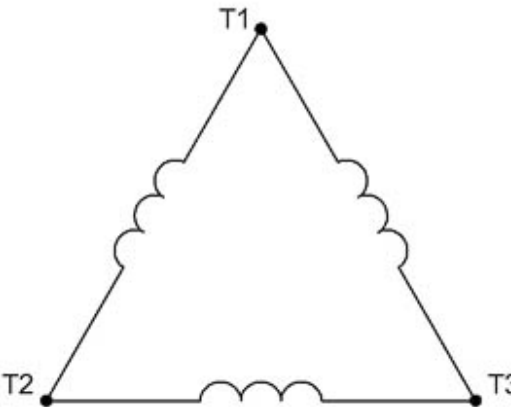
Bearings		Approx. Weight
DE	NDE	lbs
6309ZC3	6307ZC3	282

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Nameplate Drawing

Advantage Plus IEEE 841					
TYPE	AEHH8B		CAT. NO.	APH7/565C-841	
OUTPUT	7.5 HP 5.60 kW		FRAME	254TC	TEFC
R.P.M.	1170		POLE	6	INS. F
VOLTS	575		PHASE	3	Hz 60
AMPS	7.7		CODE	H	S.F. 1.15
AMBIENT	40 °C		NOM. EFF. 91.00		MIN. EFF. 89.50
BEARINGS	6309ZC3 / 6307ZC3				RATING Cont.
SER. NO.	TBD		DESIGN	B	WT. 282 LBS
PWM VFD DUTY	VT	CT	CP		S.F.
	3-60Hz	6-60Hz	60-120Hz		1.0

Connection Diagram

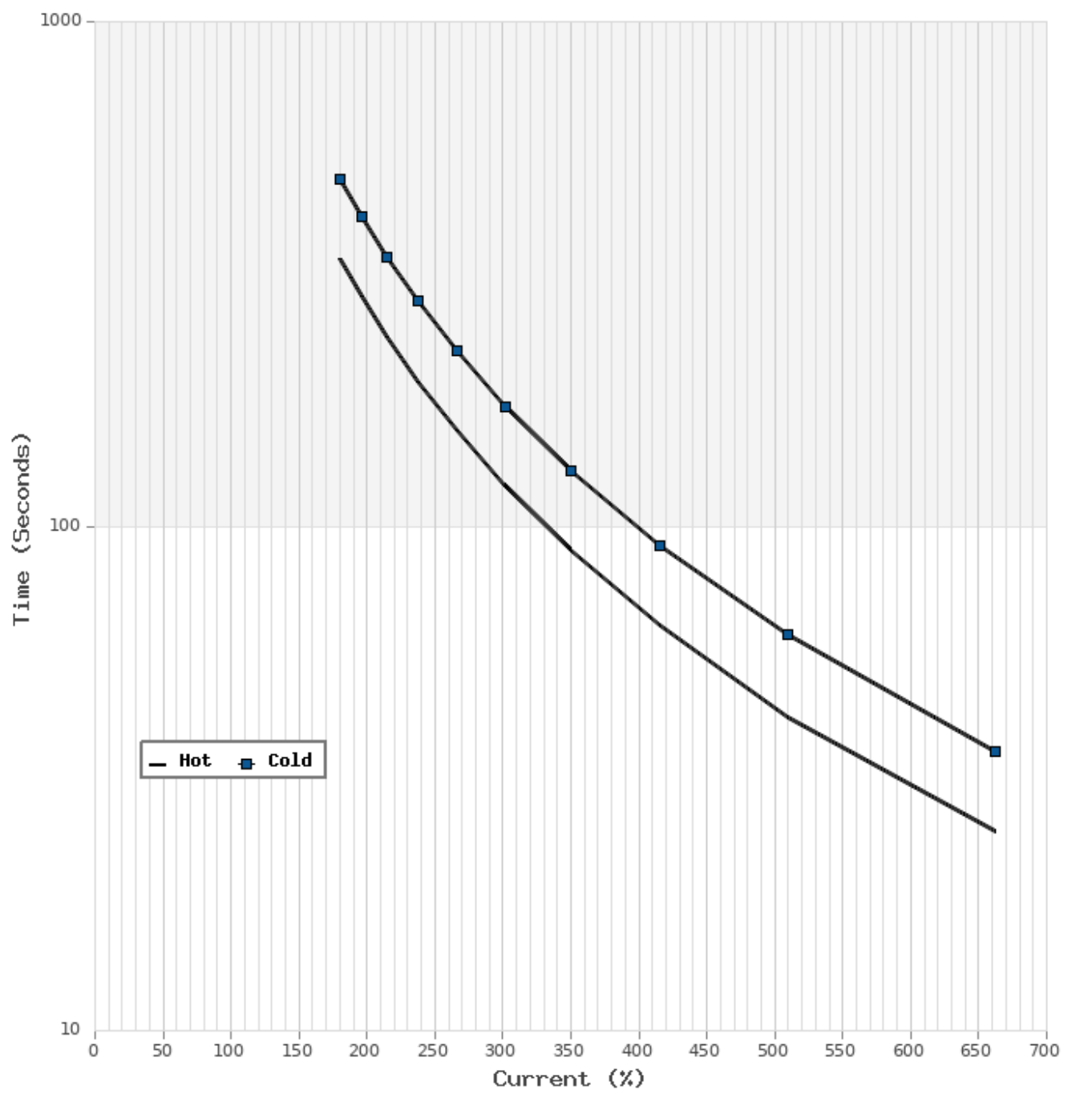


3 LEAD		SINGLE VOLTAGE			DELTA
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD_3D

Thermal Limit Curves

Motor Type: AEHH8B		Catalogue No: APH7/565C-841		Family: Advantage Plus IEEE 841	
HP	7.5	Safe Stall Time		Full Load A	7.7 A
Voltage	575V 60Hz	Hot	25 s	% Inrush	668 %
RPM	1200	Cold	36 s	Locked Rotor A	51.20 A



T-N and I-N Curves

Motor Type: AEHH8B		Catalogue No: APH7/565C-841		Family: Advantage Plus IEEE 841	
HP	7.5	Full Load T	33.66 lb-ft	Full Load A	7.7 A
Voltage	575V 60Hz	Locked Rotor T	240 %	Locked Rotor A	51.2 A
RPM	1200	Pull Up T	215 %	Break Down T	270 %

