

Technical Documentation

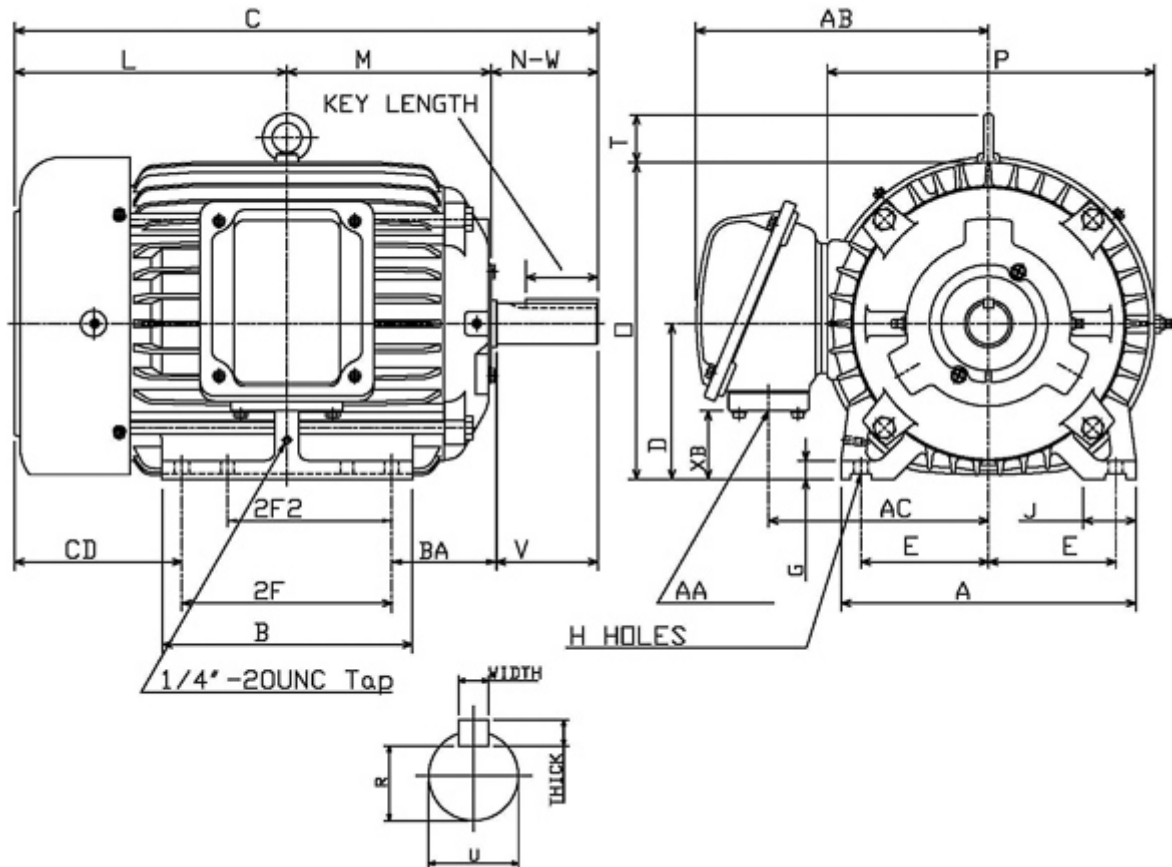
APH0104-841

Advantage Plus IEEE 841 | AEHH8B

Date: June 26, 2020

Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
APH0104-841	AEHH8B	10	4	7.5	Continuous	460	60	1800



Frame Size		Mounting					A	B	C	CD	D
		E	2F	2F2	H	BA					
215T		4.25	7	5.5	0.41	3.5	9.85	8.35	19.76		5.25

G	J	K	L	M	O	P	T	Key			Keyseat
								Width	Thick	Length	R
0.7	1.75		9.38	6.85	10.62	11.1	1.65	0.312	0.312	2.41	1.201

Terminal Housing				Aux Box		C/D Flange					
AA	AB	AC	XB	AE	AX	BB	AH	AK	BD	AJ	BF
NPT1"	9.78	7.34	2.34								

Shaft Extension			Bearings		Approx. Weight Lbs	SPL dBA/3ft	Ins. Class	S.F.	Drive Method	Dimensions
N-W	U	V	DE	NDE						
3.38	1.375	3.3	6308ZC3	6306ZC3	200	60	F	1.15	Direct Coupling / Belt Drive	Inches

	
	Date: June 26, 2020

Technical Data Sheet

Motor Type: AEHH8B	Catalogue No: APH0104-841
--------------------	---------------------------

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
10	4	1755	215T	460	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.					
91.7	90.2	91.0	91.0	88.0	84.0	75.5
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
29.92	250	145	260	3.4	11.6	81
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	1.082	51.00	175.00	40	28	60

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)	T3C / T3B

Additional Information

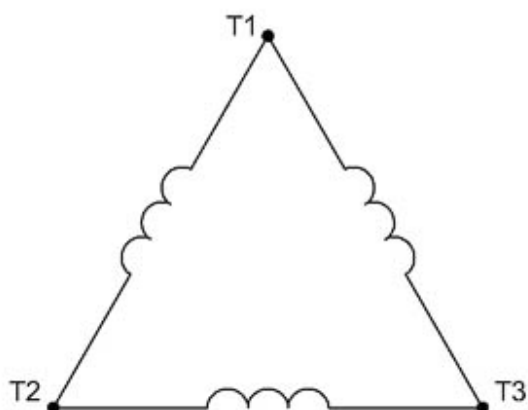
Bearings		Approx. Weight
DE	NDE	lbs
6308ZC3	6306ZC3	200

Nameplate Drawing

Advantage Plus IEEE 841

TYPE	AEHH8B	CAT. NO.	APH0104-841		
OUTPUT	10 HP 7.5 kW	FRAME	215T	TEFC	
R.P.M.	1755	POLE	4	INS.	F
VOLTS	460	PHASE	3	Hz	60
AMPS	11.6	CODE	H	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 91.7		MIN. EFF. 90.2	
BEARINGS	6308ZC3 / 6306ZC3			RATING Cont.	
SER. NO.	TBD		DESIGN	B	WT. 200 LBS
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	6-60Hz	60-120Hz	1.0 Only	

Connection Diagram

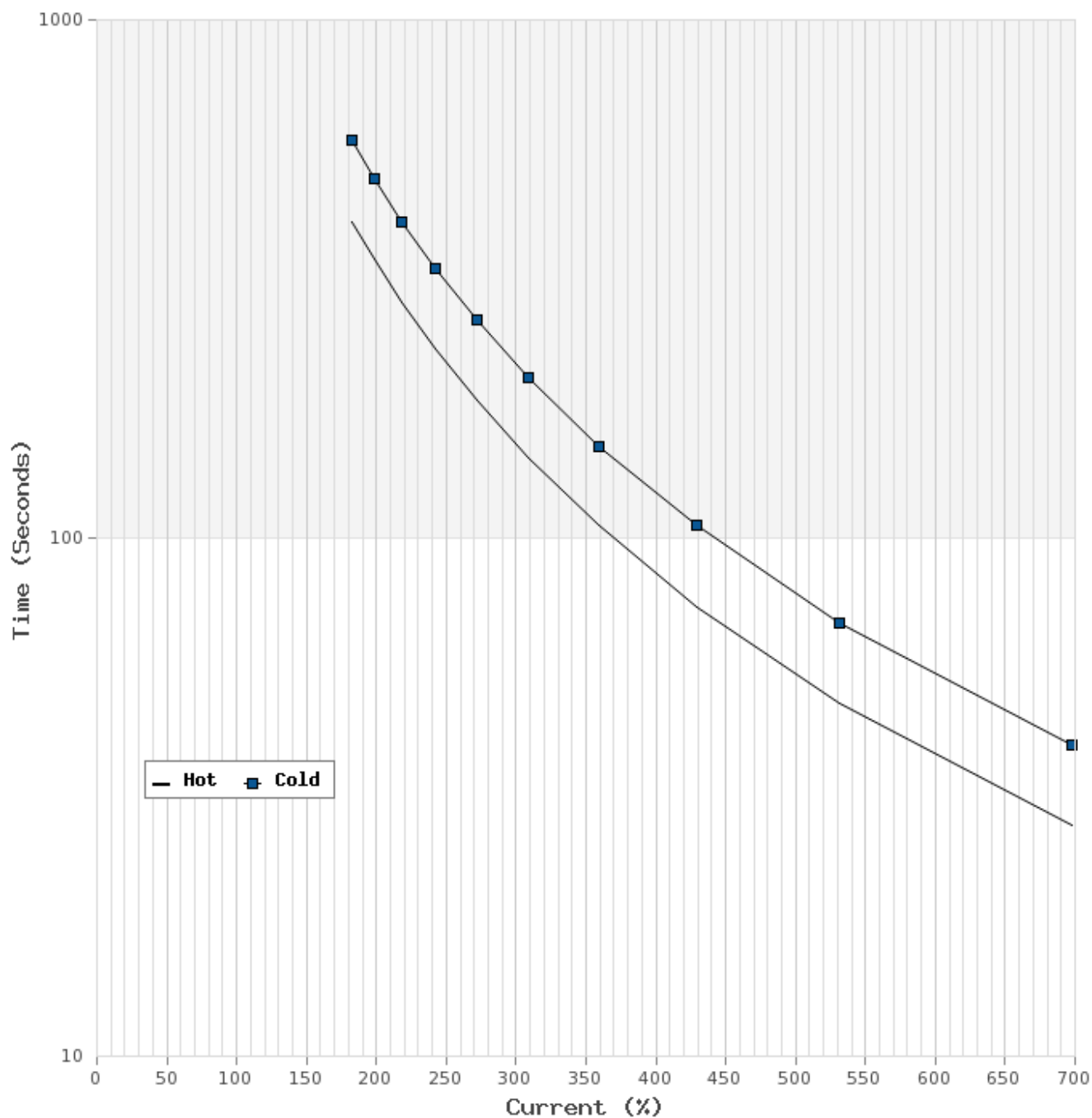


3 LEAD		SINGLE VOLTAGE			DELTA
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD_3D

Thermal Limit Curves

Motor Type: AEHH8B		Catalogue No: APH0104-841		Family: Advantage Plus IEEE 841	
HP	10	Safe Stall Time		Full Load A	11.6 A
Voltage	460V 60Hz	Hot	28 s	% Inrush	698 %
RPM	1800	Cold	40 s	Locked Rotor A	81 A



T-N and I-N Curves

Motor Type: AEHH8B		Catalogue No: APH0104-841		Family: Advantage Plus IEEE 841	
HP	10	Full Load T	29.92 lb-ft	Full Load A	11.6 A
Voltage	460V 60Hz	Locked Rotor T	250 %	Locked Rotor A	81.0 A
RPM	1800	Pull Up T	145 %	Break Down T	260 %

