

Technical Documentation

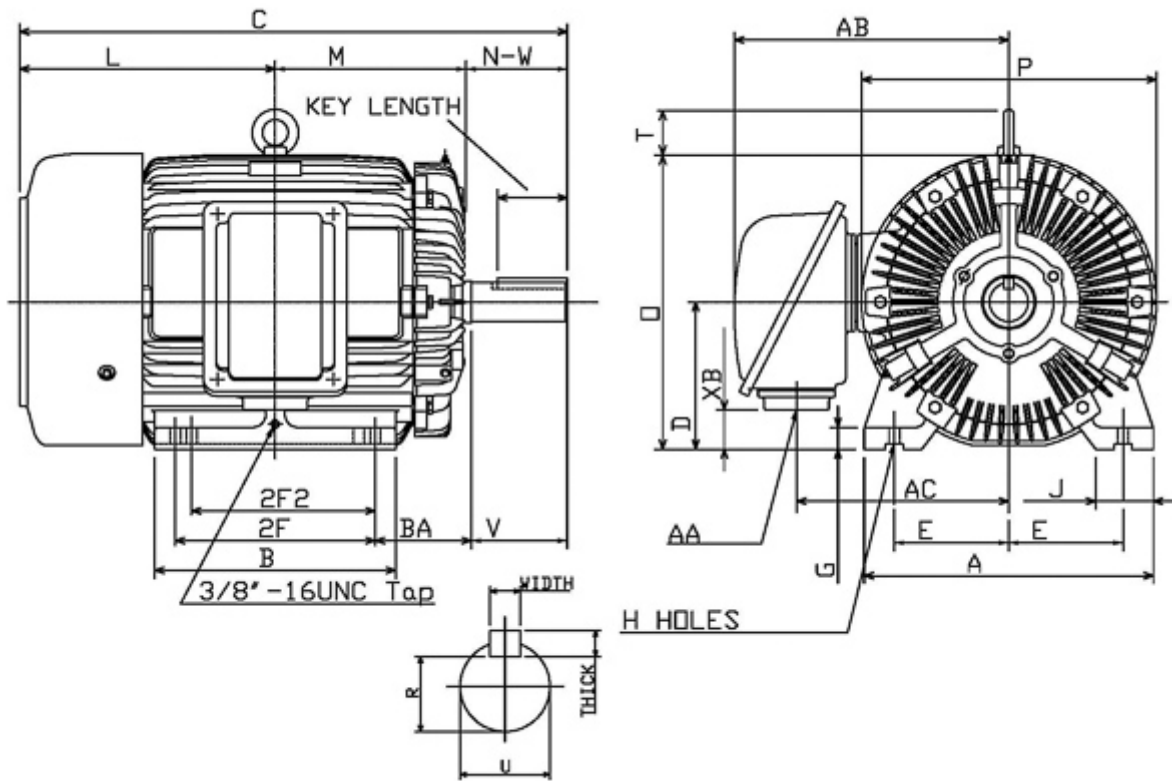
APH0306-841

Advantage Plus IEEE 841 | AEHH8B

Date: June 26, 2020

Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
APH0306-841	AEHH8B	30	6	22	Continuous	460	60	1200



Frame Size		Mounting					A	B	C	CD	D
		E	2F	2F2	H	BA					
326T		6.25	12	10.5	0.66	5.25	15.75	14.37	31.43		8

G	J	K	L	M	O	P	T	Key			Keyseat
								Width	Thick	Length	R
1.1	3.15		14.93	10.85	16.22	16.55	2.36	0.5	0.5	3.91	1.845

Terminal Housing				Aux Box		C/D Flange					
AA	AB	AC	XB	AE	AX	BB	AH	AK	BD	AJ	BF
NPT2"	14.72	11.3	3.59								

Shaft Extension			Bearings		Approx. Weight Lbs	SPL dBA/3ft	Ins. Class	S.F.	Drive Method	Dimensions
N-W	U	V	DE	NDE						
5.25	2.125	5.15	6312ZC3	6212ZC3	695	72	F	1.15	Direct Coupling / Belt Drive	Inches

	
	Date: June 26, 2020

Technical Data Sheet

Motor Type: AEHH8B	Catalogue No: APH0306-841
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Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
30	6	1175	326T	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.					
93.0	91.7	93.6	93.6	80.5	78.5	71.0
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
134.10	210	180	230	11.6	37.5	218
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	12.372	384.00	636.00	17	12	72

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

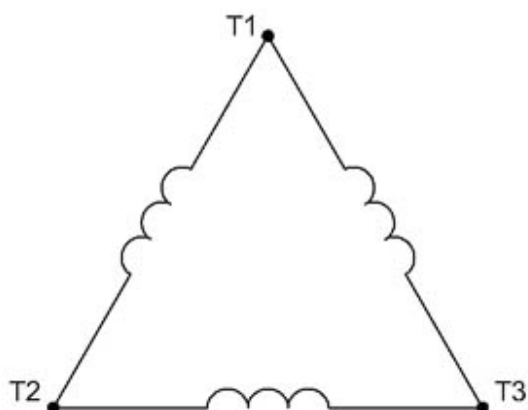
Bearings		Approx. Weight
DE	NDE	lbs
6312ZC3	6212ZC3	695

Nameplate Drawing

Advantage Plus IEEE 841

TYPE	AEHH8B	CAT. NO.	APH0306-841		
OUTPUT	30 HP 22 kW	FRAME	326T	TEFC	
R.P.M.	1175	POLE	6	INS.	F
VOLTS	460	PHASE	3	Hz	60
AMPS	37.5	CODE	G	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 93.0		MIN. EFF. 91.7	
BEARINGS	6312ZC3 / 6212ZC3			RATING Cont.	
SER. NO.	TBD		DESIGN	B	WT. 695 LBS
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	6-60Hz	60-120Hz	1.0 Only	

Connection Diagram

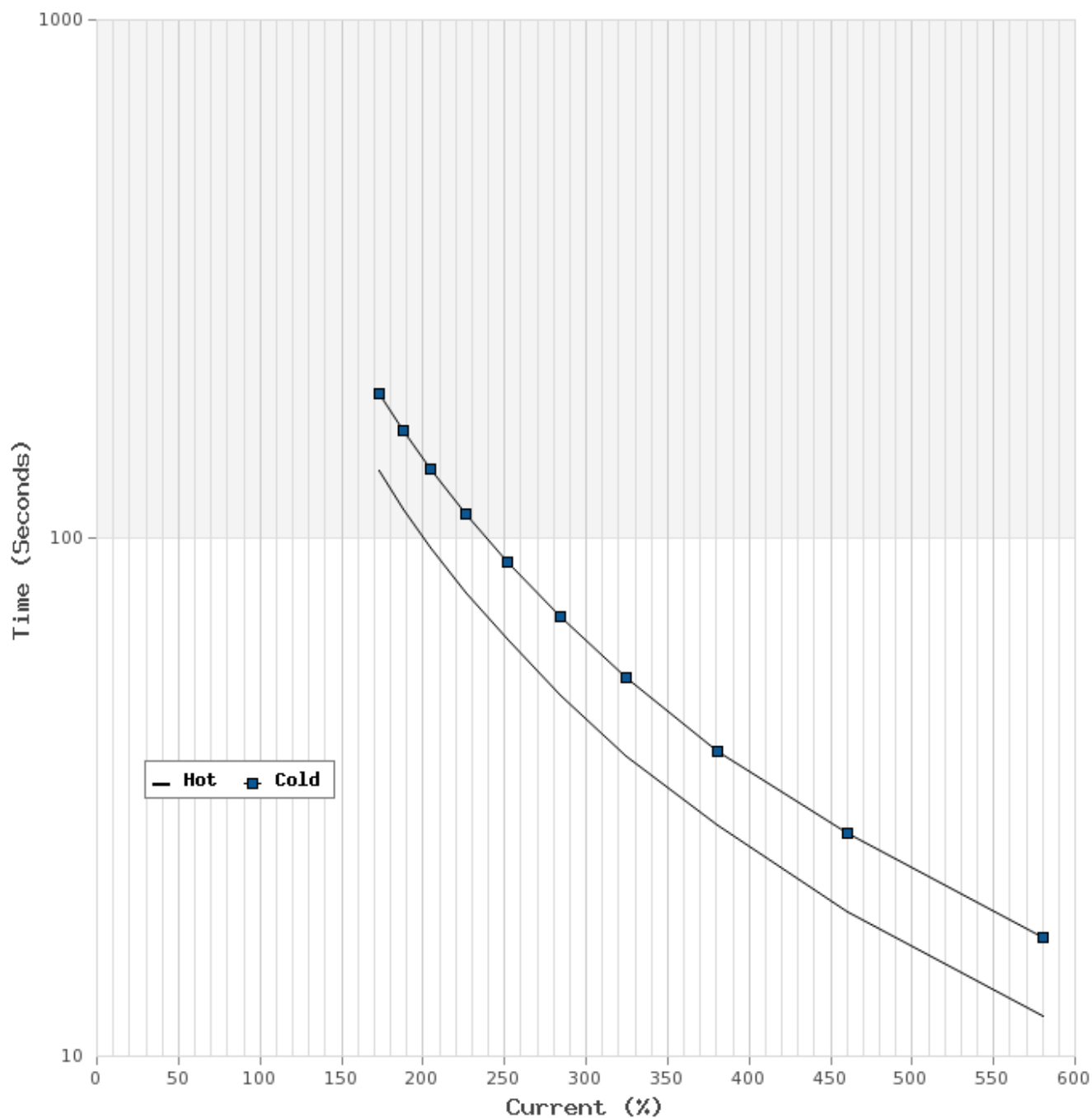


3 LEAD		SINGLE VOLTAGE			DELTA
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD_3D

Thermal Limit Curves

Motor Type: AEHH8B		Catalogue No: APH0306-841		Family: Advantage Plus IEEE 841	
HP	30	Safe Stall Time		Full Load A	37.5 A
Voltage	460V 60Hz	Hot	12 s	% Inrush	581 %
RPM	1200	Cold	17 s	Locked Rotor A	218 A



T-N and I-N Curves

Motor Type: AEHH8B		Catalogue No: APH0306-841		Family: Advantage Plus IEEE 841	
HP	30	Full Load T	134.10 lb-ft	Full Load A	37.5 A
Voltage	460V 60Hz	Locked Rotor T	210 %	Locked Rotor A	218.0 A
RPM	1200	Pull Up T	180 %	Break Down T	230 %

