

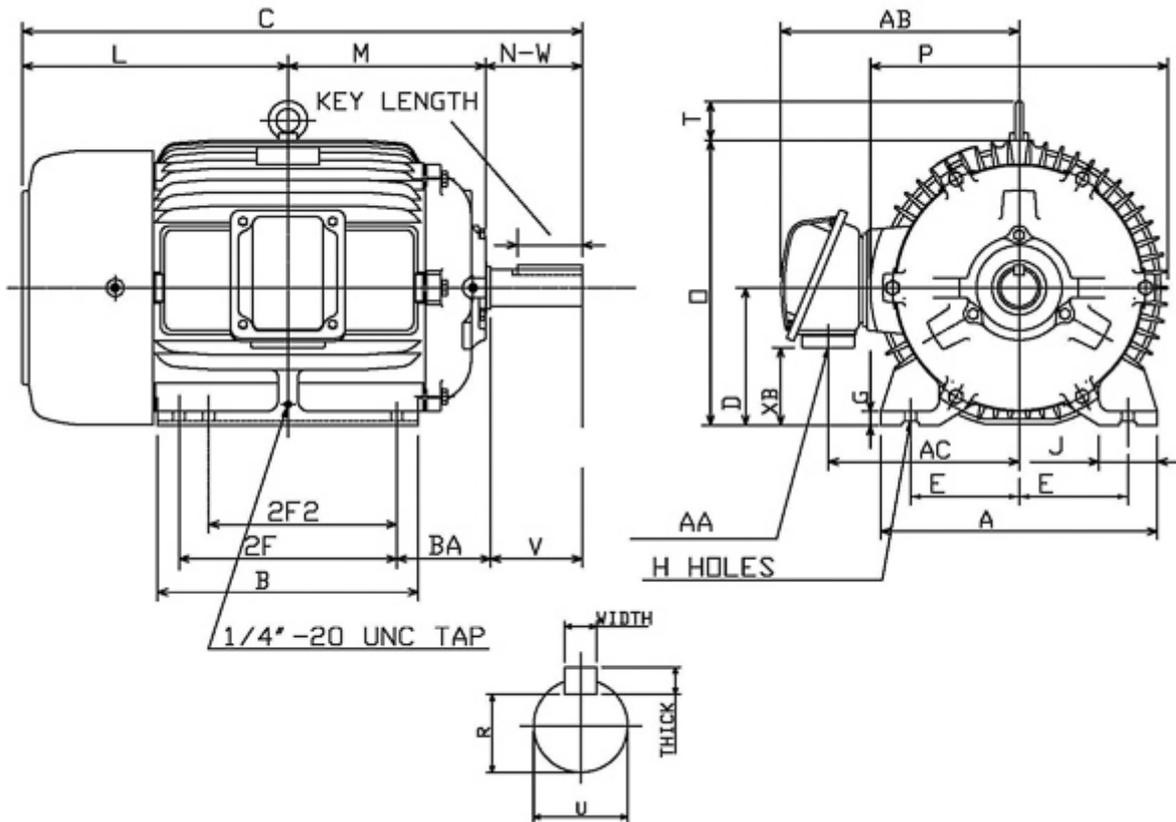
Technical Documentation

APH0302-841
Advantage Plus IEEE 841 | AEHH8B

Date: June 26, 2020

Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
APH0302-841	AEHH8B	30	2	22	Continuous	460	60	3600



Frame Size	Mounting					A	B	C	CD	D	
	E	2F	2F2	H	BA						
286TS	5.5	11	9.5	0.53	4.75	13.98	13.19	26.93		7	
G	J	K	L	M	O	P	T	Key			Keyseat R
								Width	Thick	Length	
0.7	2.95		13.43	9.98	14.5	15.05	2.36	0.375	0.375	1.93	1.416
Terminal Housing			Aux Box			C/D Flange					
AA	AB	AC	XB	AE	AX	BB	AH	AK	BD	AJ	BF
NPT11/2"	13.27	10.35	3.54								
Shaft Extension			Bearings		Approx. Weight Lbs	SPL dBA/3ft	Ins. Class	S.F.	Drive Method	Dimensions	
N-W	U	V	DE	NDE							
3.25	1.625	3.2	6311ZC3	6310ZC3	482	77	F	1.15	Direct Coupling	Inches	

	
	Date: June 26, 2020

Technical Data Sheet

Motor Type: AEHH8B	Catalogue No: APH0302-841
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Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
30	2	3545	286TS	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	93.0	91.0	90.5	87.5
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
44.43	175	140	240	6.0	33.2	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	2.831	30.00	73.00	24	17	77

VFD Duty Information

Speed Range			VFD		S.F.
Constant Torque	Variable Torque	Constant Power	Carrier	Type	
6-60Hz	3-60Hz	60-90Hz	≤ 5 kHz	VPWM or CPWM	1.0 Only

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 / T3B

Additional Certifications

Other Certification

Additional Information

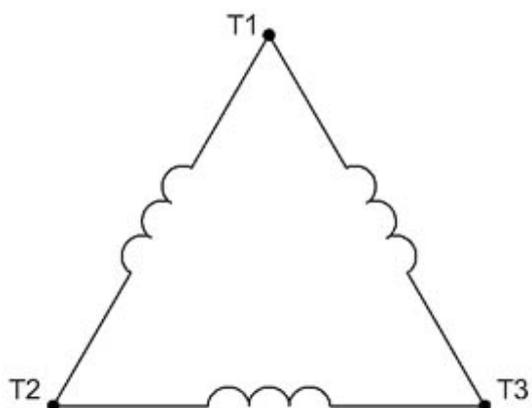
Bearings		Approx. Weight
DE	NDE	lbs
6311ZC3	6310ZC3	482

Nameplate Drawing

Advantage Plus IEEE 841

TYPE	AEHH8B	CAT. NO.	APH0302-841		
OUTPUT	30 HP 22 kW	FRAME	286TS	TEFC	
R.P.M.	3545	POLE	2	INS.	F
VOLTS	460	PHASE	3	Hz	60
AMPS	33.2	CODE	G	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 93.0		MIN. EFF. 91.7	
BEARINGS	6311ZC3 / 6310ZC3			RATING Cont.	
SER. NO.	TBD	DESIGN	B	WT. 482 LBS	
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	6-60Hz	60-90Hz	1.0 Only	

Connection Diagram

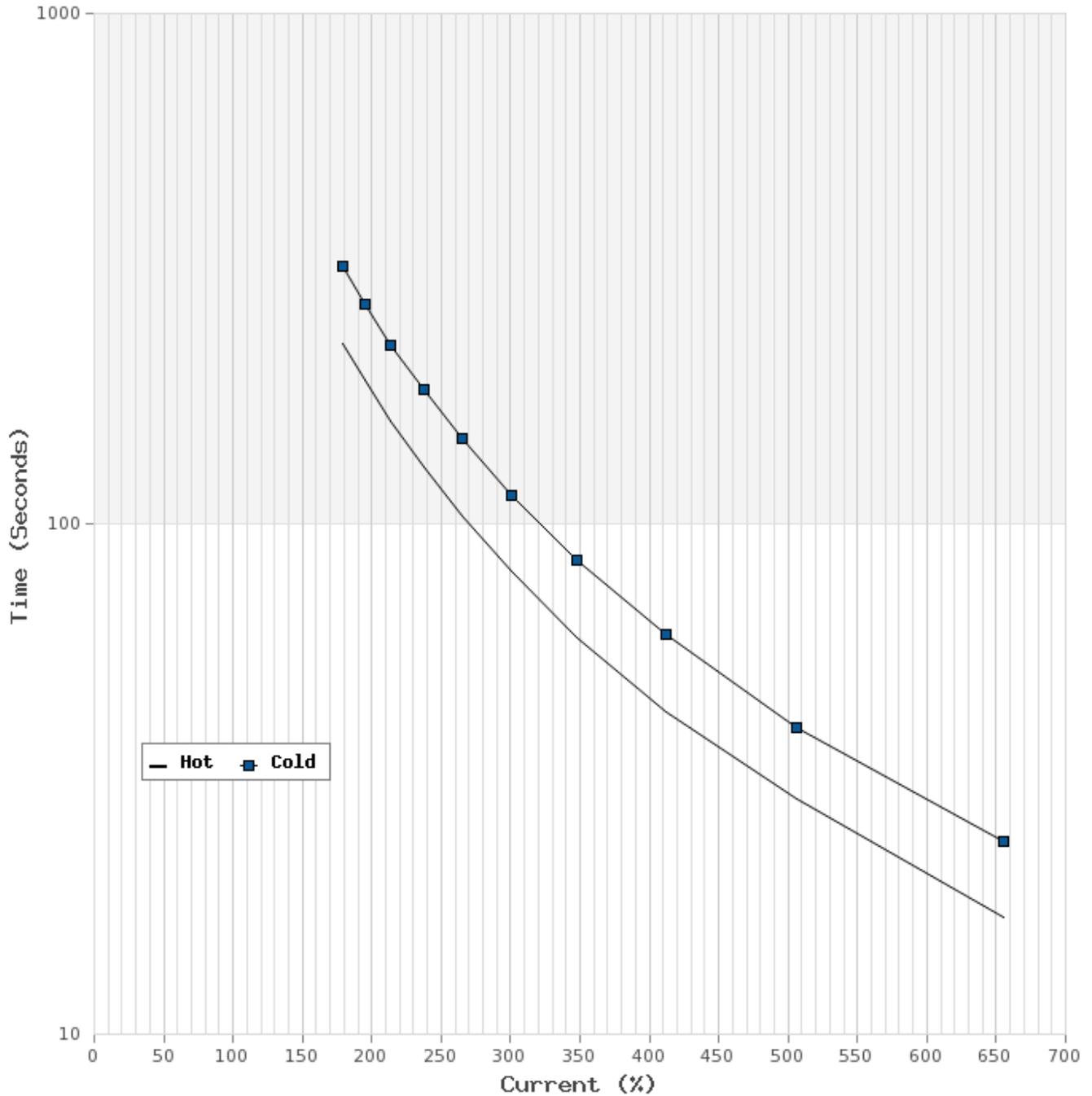


3 LEAD		SINGLE VOLTAGE			DELTA
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD_3D

Thermal Limit Curves

Motor Type: AEHH8B		Catalogue No: APH0302-841		Family: Advantage Plus IEEE 841	
HP	30	Safe Stall Time		Full Load A	33.2 A
Voltage	460V 60Hz	Hot	17 s	% Inrush	657 %
RPM	3600	Cold	24 s	Locked Rotor A	218 A



T-N and I-N Curves

Motor Type: AEHH8B		Catalogue No: APH0302-841		Family: Advantage Plus IEEE 841	
HP	30	Full Load T	44.43 lb-ft	Full Load A	33.2 A
Voltage	460V 60Hz	Locked Rotor T	175 %	Locked Rotor A	218.0 A
RPM	3600	Pull Up T	140 %	Break Down T	240 %

