TECO Westinghouse MOTORS (CANADA) INC.	
	Date: June 29, 2020

Technical Documentation

APH05025-841

Advantage Plus IEEE 841 | AEHH8B

Date: June 29, 2020

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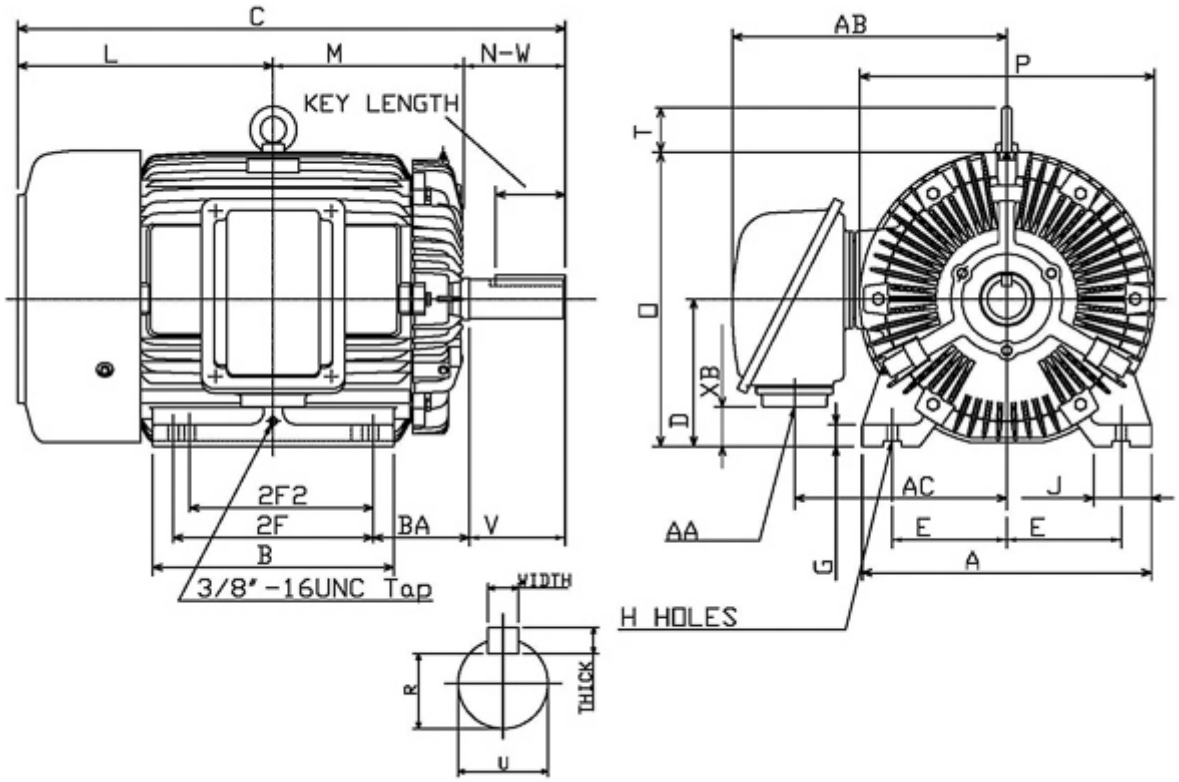
Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
APH05025-841	AEHH8B	50	2	37	Continuous	575	60	3600



Frame Size	Mounting					A	B	C	CD	D
	E	2F	2F2	H	BA					
326TS	6.25	12	10.5	0.66	5.25	15.75	14.37	29.92		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	2.03	1.591

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						
3.75	1.875	3.65	6312ZC3	6212ZC3	708	78	F	1.15	Direct Coupling	Inches

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Technical Data Sheet

Motor Type: AEHH8B	Catalogue No: APH05025-841

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
50	2	3550	326TS	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.					
94.1	93.0	94.5	94.5	91.0	90.0	86.5

Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
73.95	150	130	240	8.2	43.7	290

NEMA KVA Code	Inertia (WR^2)			Safe Stall Time (s)		Noise Level Sound Press. dB(A)
	Rotor ($lb\text{-}ft^2$)	NEMA Load ($lb\text{-}ft^2$)	Max. Allowable ($lb\text{-}ft^2$)	Cold	Hot	
G	4.488	49.00	83.00	17	12	78

VFD Duty Information

Speed Range			VFD		S.F.
Constant Torque	Variable Torque	Constant Power	Carrier	Type	
6-60Hz	3-60Hz	60-75Hz	≤ 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 / T3

Additional Certifications

Other Certification

Additional Information

Bearings		Approx. Weight
DE	NDE	lbs
6312ZC3	6212ZC3	708

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Nameplate Drawing

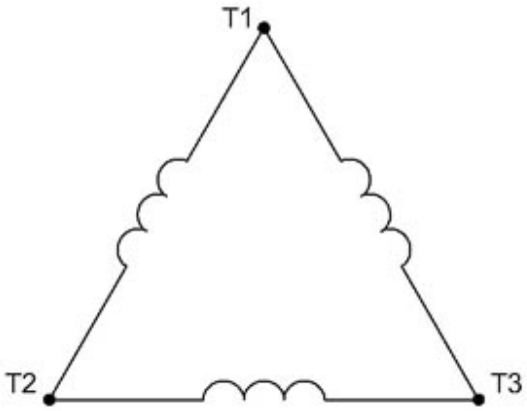
Advantage Plus IEEE 841

TYPE	AEHH8B	CAT. NO.	APH05025-841		
OUTPUT	50 HP 37 kW	FRAME	326TS	TEFC	
R.P.M.	3550	POLE	2	INS.	F
VOLTS	575	PHASE	3	Hz	60
AMPS	43.7	CODE	G	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 94.1		MIN. EFF. 93.0	
BEARINGS	6312ZC3 / 6212ZC3			RATING Cont.	

SER. NO.	TBD	DESIGN	B	WT. 708 LBS

PWM VFD DUTY	VT	CT	CP	S.F.
	3-60Hz	6-60Hz	60-75Hz	1.0 Only

Connection Diagram



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

WD_3D

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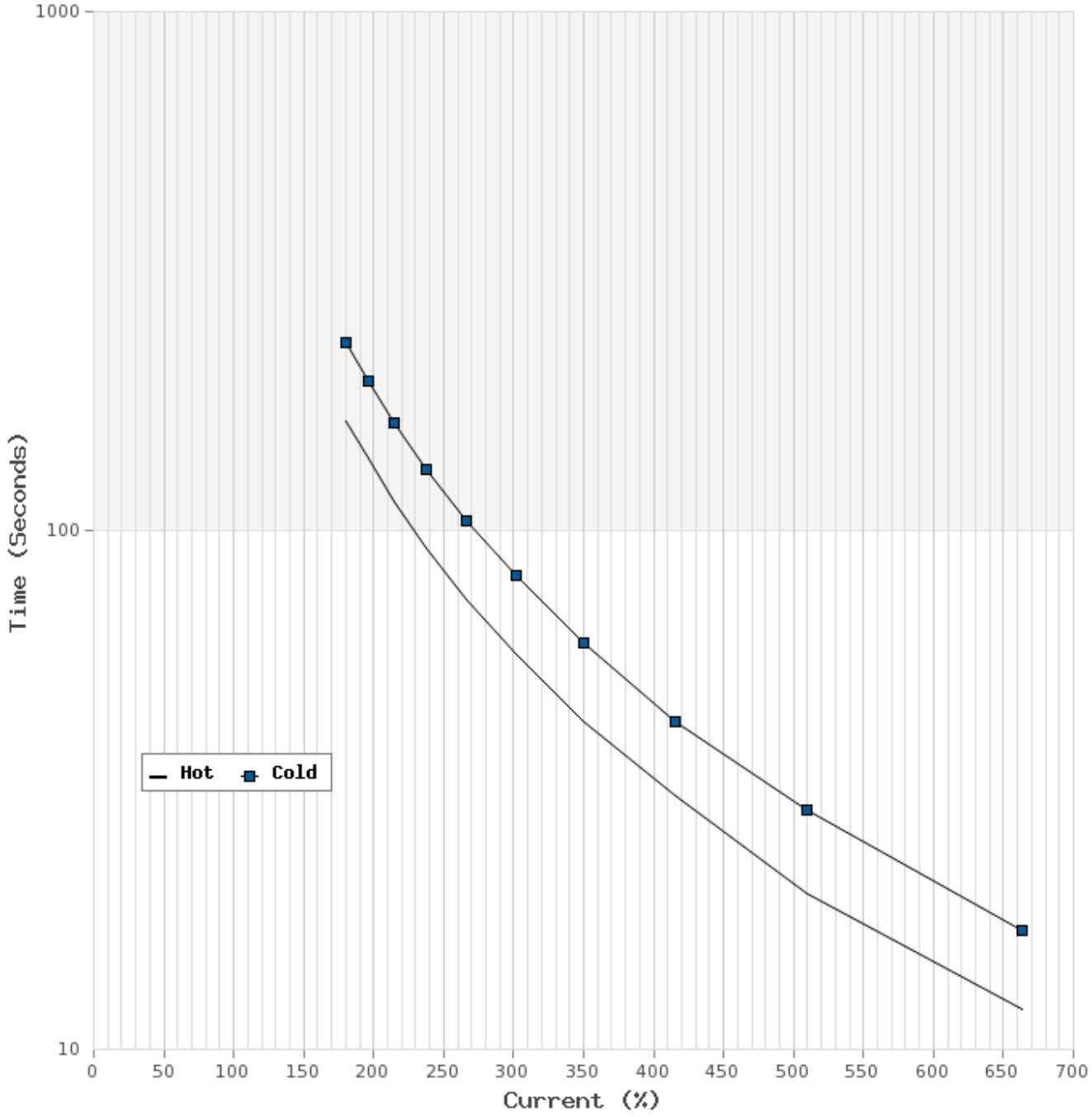
Thermal Limit Curves

Motor Type: AEHH8B		Catalogue No: APH05025-841		Family: Advantage Plus IEEE 841	
HP	50	Safe Stall Time		Full Load A	43.7 A
Voltage	575V 60Hz	Hot	12 s	% Inrush	663 %
RPM	3600	Cold	17 s	Locked Rotor A	290 A



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T-N and I-N Curves

Motor Type: AEHH8B		Catalogue No: APH05025-841		Family: Advantage Plus IEEE 841	
HP	50	Full Load T	73.95 lb-ft	Full Load A	43.7 A
Voltage	575V 60Hz	Locked Rotor T	150 %	Locked Rotor A	290.0 A
RPM	3600	Pull Up T	130 %	Break Down T	240 %