

Technical Documentation

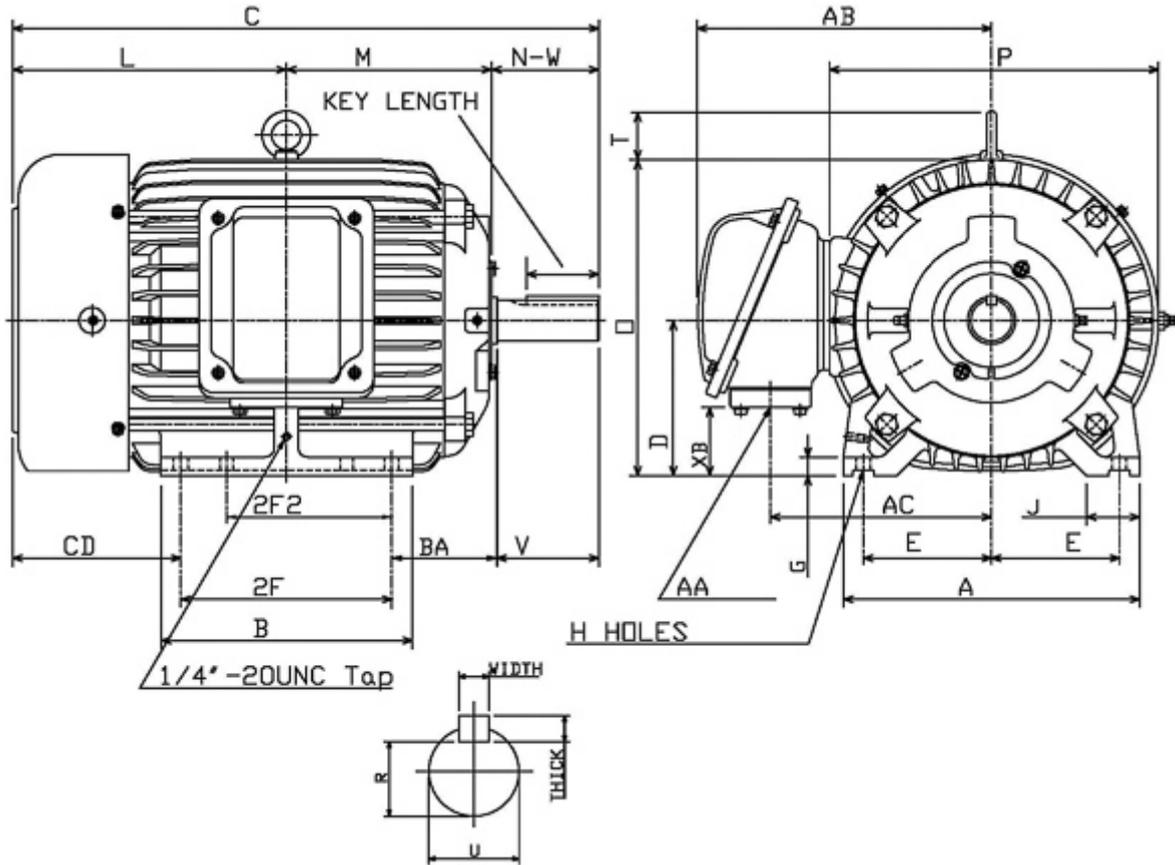
APH0056

Advantage Plus IEEE Ready | AEHH8R

Date: June 25, 2020

Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
APH0056	AEHH8R	5	6	3.7	Continuous	460	60	1200



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
0.7	1.75		9.38	6.85	10.62	11.1	1.65	Width	Thick	Length	R
								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	194	55	F	1.15	Direct Coupling / Belt Drive	Inches	

	
	Date: June 25, 2020

Technical Data Sheet

Motor Type: AEHH8R	Catalogue No: APH0056
--------------------	-----------------------

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
5	6	1170	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.					
91.0	89.5	91.0	89.5	82.5	77.0	65.5
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
22.44	190	160	300	2.9	6.2	46
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	
J	1.224	71.00	416.00	68	48	55

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

CSA Certified
Class I, Div 2, Groups B, C & D Class I, Zone 2, Groups IIB+H2, IIB & IIA
Temp Code (Sinewave / VFD)
T3C / T4

Additional Certifications

Other Certification
Class II, Div 2, Groups F & G

Additional Information

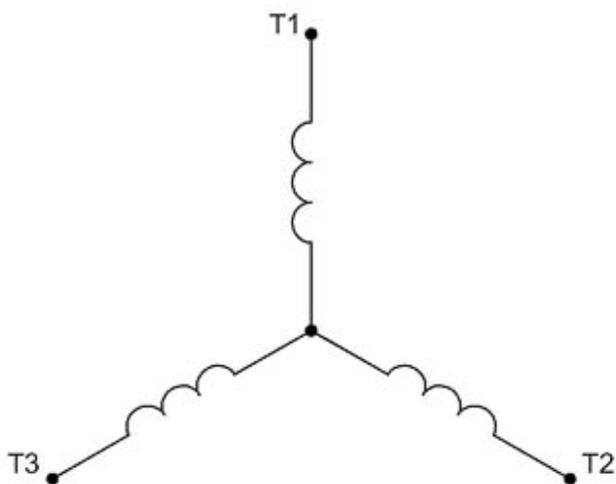
Bearings		Approx. Weight
DE	NDE	lbs
6308ZC3	6306ZC3	194

Nameplate Drawing

Advantage Plus IEEE Ready

TYPE	AEHH8R		CAT. NO.	APH0056		
OUTPUT	5 HP 3.7 kW		FRAME	215T	TEFC	
R.P.M.	1170		POLE	6	INS.	F
VOLTS	460		PHASE	3	Hz	60
AMPS	6.2		CODE	J	S.F.	1.15
AMBIENT	40 °C		NOM. EFF. 91.0		MIN. EFF. 89.5	
BEARINGS	6308ZC3 / 6306ZC3				RATING Cont.	
SER. NO.	TBD		DESIGN	B	WT. 194 LBS	
PWM VFD DUTY	VT	CT	CP		S.F.	
	3-60Hz	6-60Hz	60-120Hz		1.0 Only	

Connection Diagram

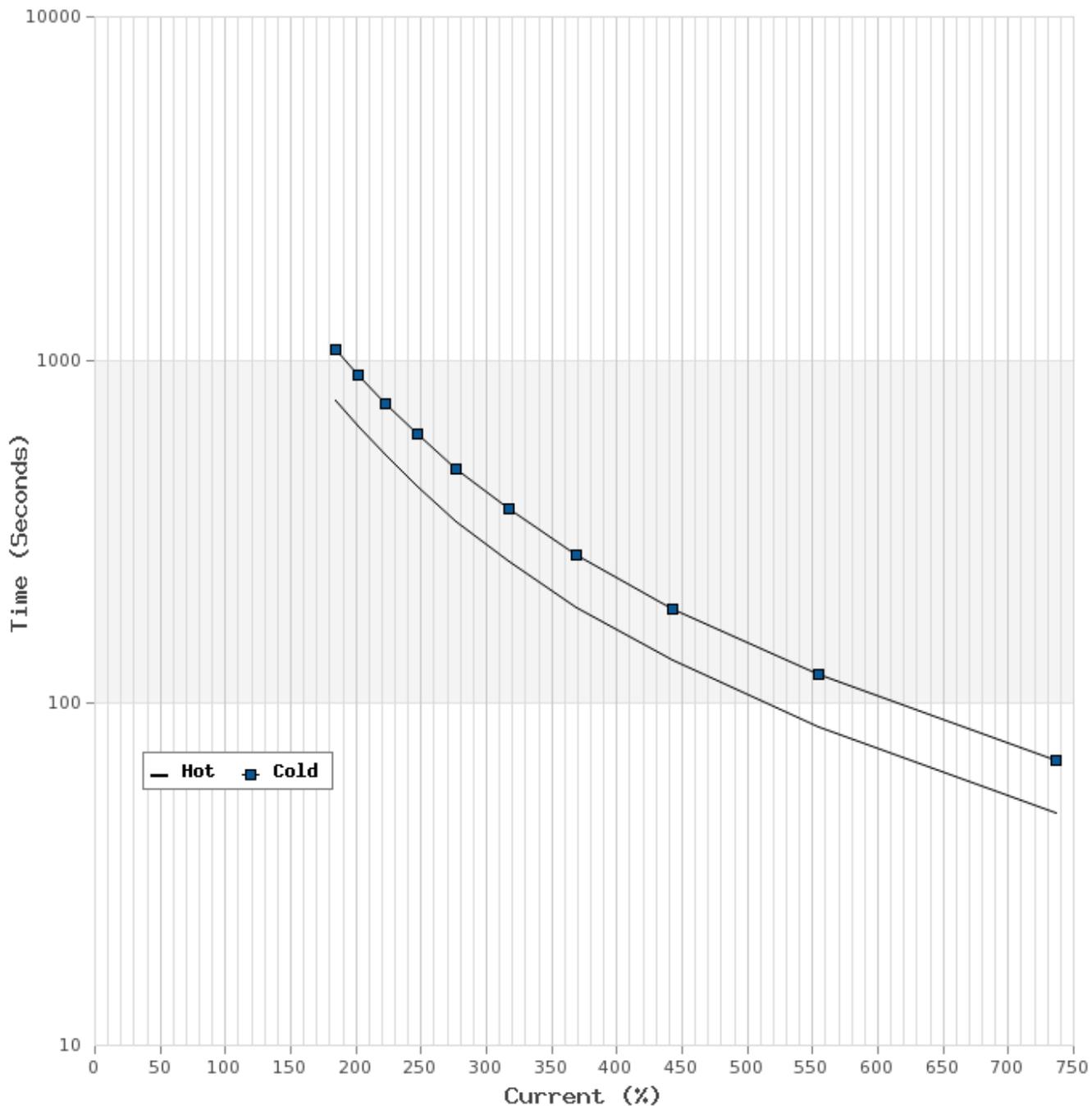


3 LEAD		SINGLE VOLTAGE			WYE
VOLTAGE	CONN.	L1	L2	L3	
-	WYE	1	2	3	

WD_3Y

Thermal Limit Curves

Motor Type: AEHH8R		Catalogue No: APH0056		Family: Advantage Plus IEEE Ready	
HP	5	Safe Stall Time		Full Load A	6.2 A
Voltage	460V 60Hz	Hot	48 s	% Inrush	737 %
RPM	1200	Cold	68 s	Locked Rotor A	46 A



T-N and I-N Curves

Motor Type: AEHH8R		Catalogue No: APH0056		Family: Advantage Plus IEEE Ready	
HP	5	Full Load T	22.44 lb-ft	Full Load A	6.2 A
Voltage	460V 60Hz	Locked Rotor T	190 %	Locked Rotor A	46.0 A
RPM	1200	Pull Up T	160 %	Break Down T	300 %

