

Technical Documentation

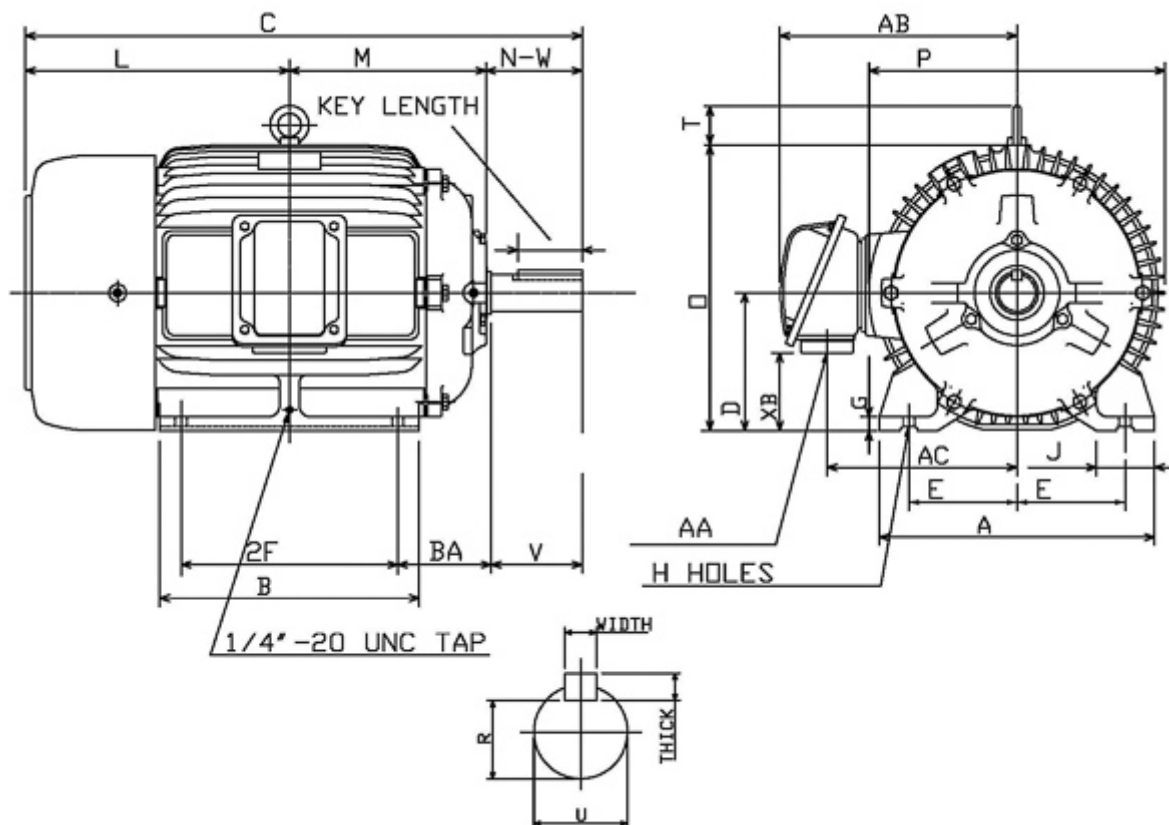
APH01545

Advantage Plus IEEE Ready | AEHH8R

Date: June 26, 2020

Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
APH01545	AEHH8R	15	4	11	Continuous	575	60	1800



Frame Size		Mounting					A	B	C	CD	D
		E	2F	2F2	H	BA					
254T		5	8.25		0.53	4.25	11.81	9.85	23.78		6.25
G	J	K	L	M	O	P	T	Key			Keyseat
								Width	Thick	Length	R
0.66	1.95		11.41	8.06	12.8	13.15	2.01	0.375	0.375	2.91	1.416
Terminal Housing				Aux Box		C/D Flange					
AA	AB	AC	XB	AE	AX	BB	AH	AK	BD	AJ	BF
NPT11/4 "	11.3	8.86	3.22								
Shaft Extension			Bearings		Approx. Weight Lbs	SPL dBA/3ft	Ins. Class	S.F.	Drive Method	Dimensions	
N-W	U	V	DE	NDE							
4	1.625	3.9	6309ZC3	6307C3	297	64	F	1.15	Direct Coupling / Belt Drive	Inches	

	
	Date: June 26, 2020

Technical Data Sheet

Motor Type: AEHH8R	Catalogue No: APH01545
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Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
15	4	1765	254T	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.					
92.4	91.0	93.0	92.4	88.0	85.0	77.0
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
44.62	245	180	270	4.8	13.8	93
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	2.179	75.00	220.00	32	22	64

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		Class II, Div 2, Groups F & G
Temp Code (Sinewave / VFD)	T3C / T3B	

Additional Information

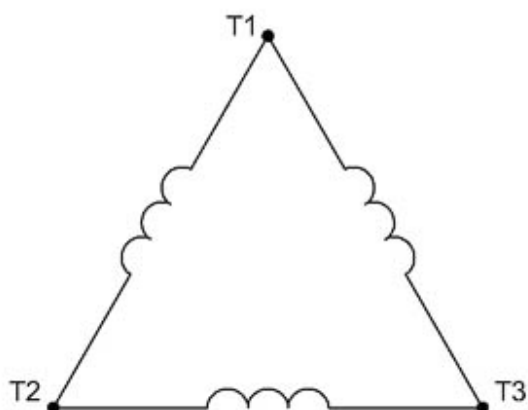
Bearings		Approx. Weight
DE	NDE	lbs
6309ZC3	6307C3	297

Nameplate Drawing

Advantage Plus IEEE Ready

TYPE	AEHH8R	CAT. NO.	APH01545		
OUTPUT	15 HP 11 kW	FRAME	254T	TEFC	
R.P.M.	1765	POLE	4	INS.	F
VOLTS	575	PHASE	3	Hz	60
AMPS	13.8	CODE	G	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 92.4		MIN. EFF. 91.0	
BEARINGS	6309ZC3 / 6307C3			RATING Cont.	
SER. NO.	TBD		DESIGN	B	WT. 297 LBS
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	6-60Hz	60-120Hz	1.0 Only	

Connection Diagram

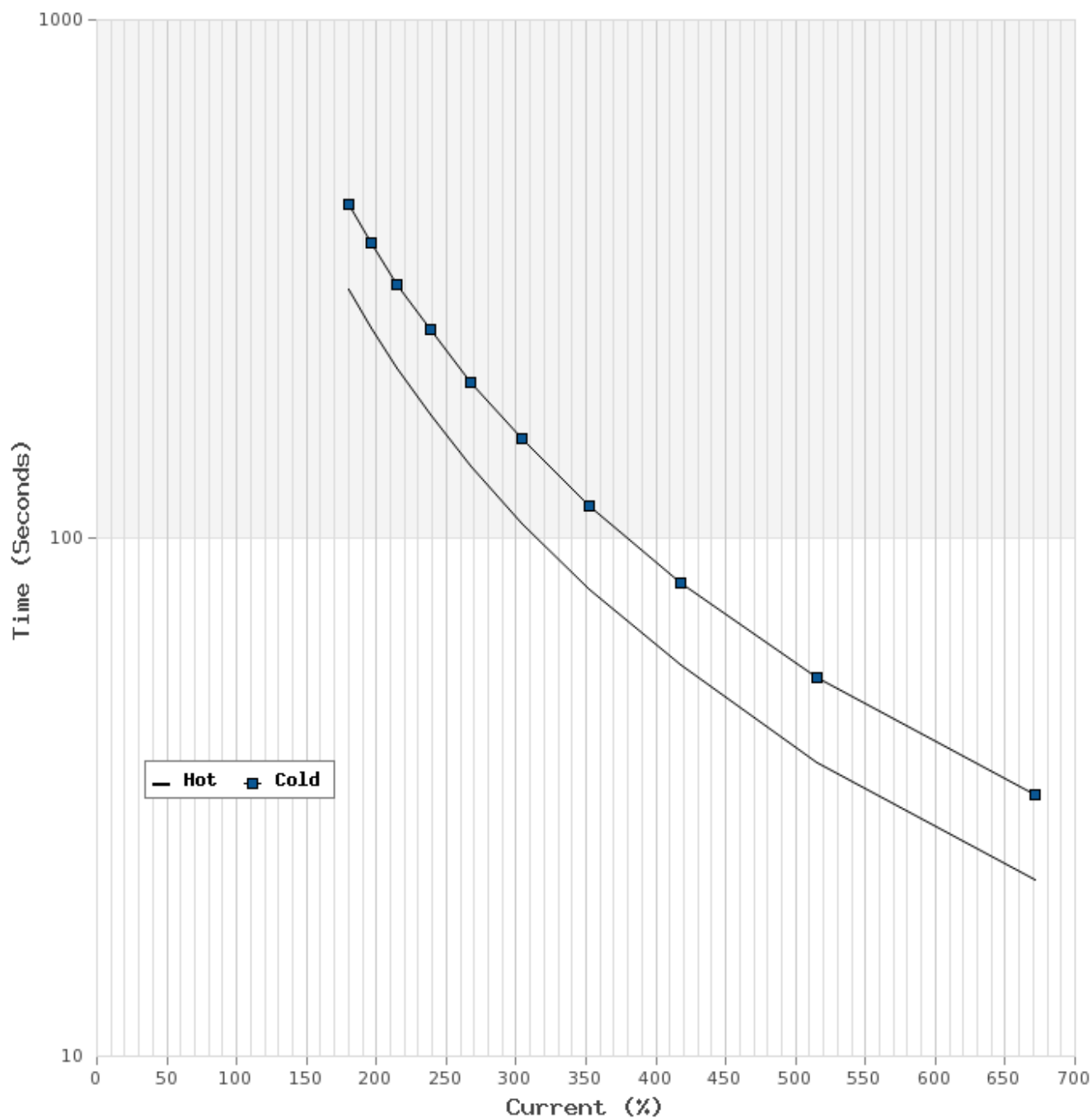


3 LEAD		SINGLE VOLTAGE			DELTA
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD_3D

Thermal Limit Curves

Motor Type: AEHH8R		Catalogue No: APH01545		Family: Advantage Plus IEEE Ready	
HP	15	Safe Stall Time		Full Load A	13.8 A
Voltage	575V 60Hz	Hot	22 s	% Inrush	673 %
RPM	1800	Cold	32 s	Locked Rotor A	93 A



T-N and I-N Curves

Motor Type: AEHH8R		Catalogue No: APH01545		Family: Advantage Plus IEEE Ready	
HP	15	Full Load T	44.62 lb-ft	Full Load A	13.8 A
Voltage	575V 60Hz	Locked Rotor T	245 %	Locked Rotor A	93.0 A
RPM	1800	Pull Up T	180 %	Break Down T	270 %

