

Technical Documentation

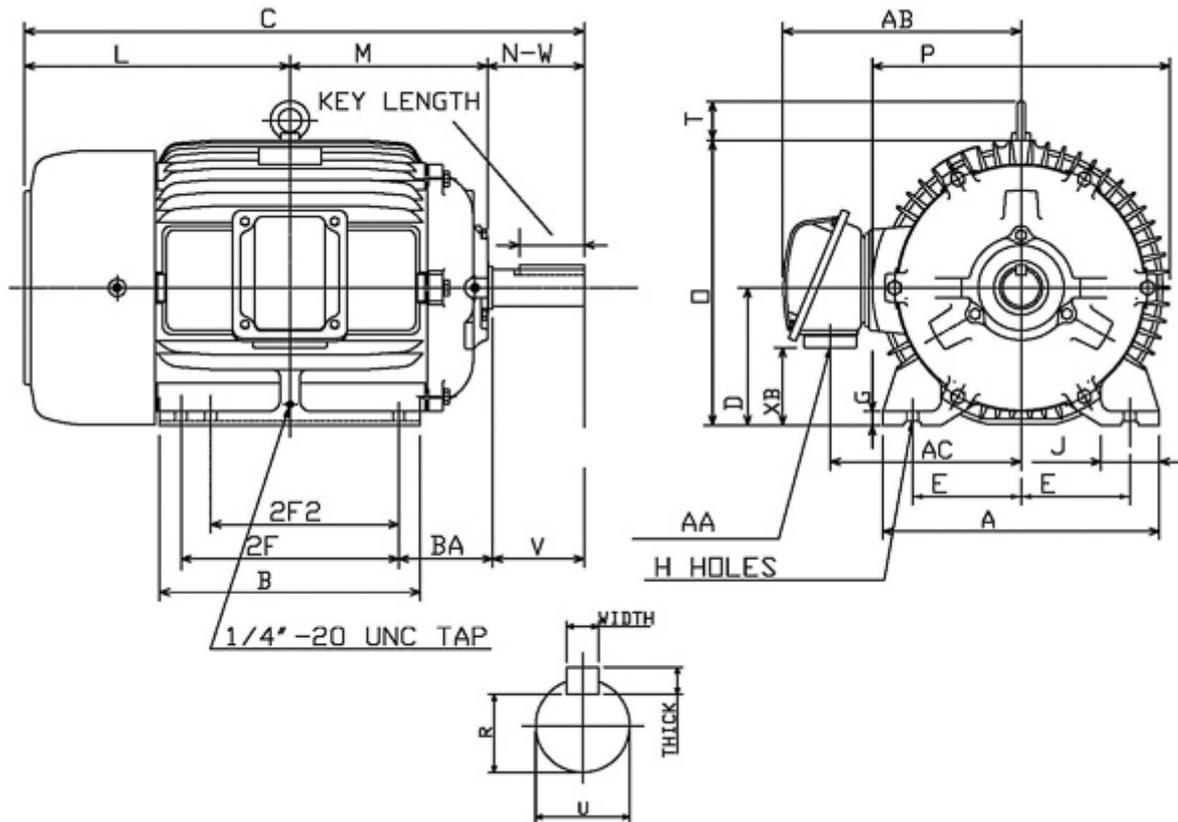
APH0304

Advantage Plus IEEE Ready | AEHH8R

Date: June 25, 2020

Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
APH0304	AEHH8R	30	4	22	Continuous	460	60	1800



Frame Size	Mounting					A	B	C	CD	D	
	E	2F	2F2	H	BA						
286T	5.5	11	9.5	0.53	4.75	13.98	13.19	28.3		7	
G	J	K	L	M	O	P	T	Key			Keyseat
0.7	2.95		13.43	9.98	14.5	15.05	2.36	Width	Thick	Length	R
								0.5	0.5	3.28	1.591
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							
4.62	1.875	4.5	6311ZC3	6310ZC3	475	70	F	1.15	Direct Coupling / Belt Drive	Inches	

	
	Date: June 25, 2020

Technical Data Sheet

Motor Type: AEHH8R	Catalogue No: APH0304
--------------------	-----------------------

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
30	4	1765	286T	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.					
93.6	92.4	93.6	93.6	87.5	85.5	79.5
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
88.99	200	160	235	8.8	34.3	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	5.274	144.00	328.00	25	18	70

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
Class II, Div 2, Groups F & G

Additional Information

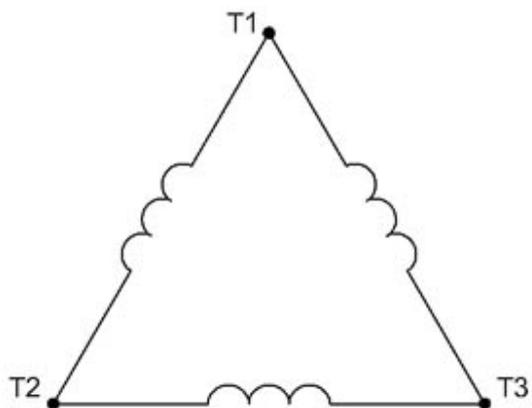
Bearings		Approx. Weight
DE	NDE	lbs
6311ZC3	6310ZC3	475

Nameplate Drawing

Advantage Plus IEEE Ready

TYPE	AEHH8R	CAT. NO.	APH0304		
OUTPUT	30 HP 22 kW	FRAME	286T	TEFC	
R.P.M.	1765	POLE	4	INS.	F
VOLTS	460	PHASE	3	Hz	60
AMPS	34.3	CODE	G	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 93.6		MIN. EFF. 92.4	
BEARINGS	6311ZC3 / 6310ZC3			RATING Cont.	
SER. NO.	TBD	DESIGN	B	WT. 475 LBS	
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	6-60Hz	60-90Hz	1.0 Only	

Connection Diagram

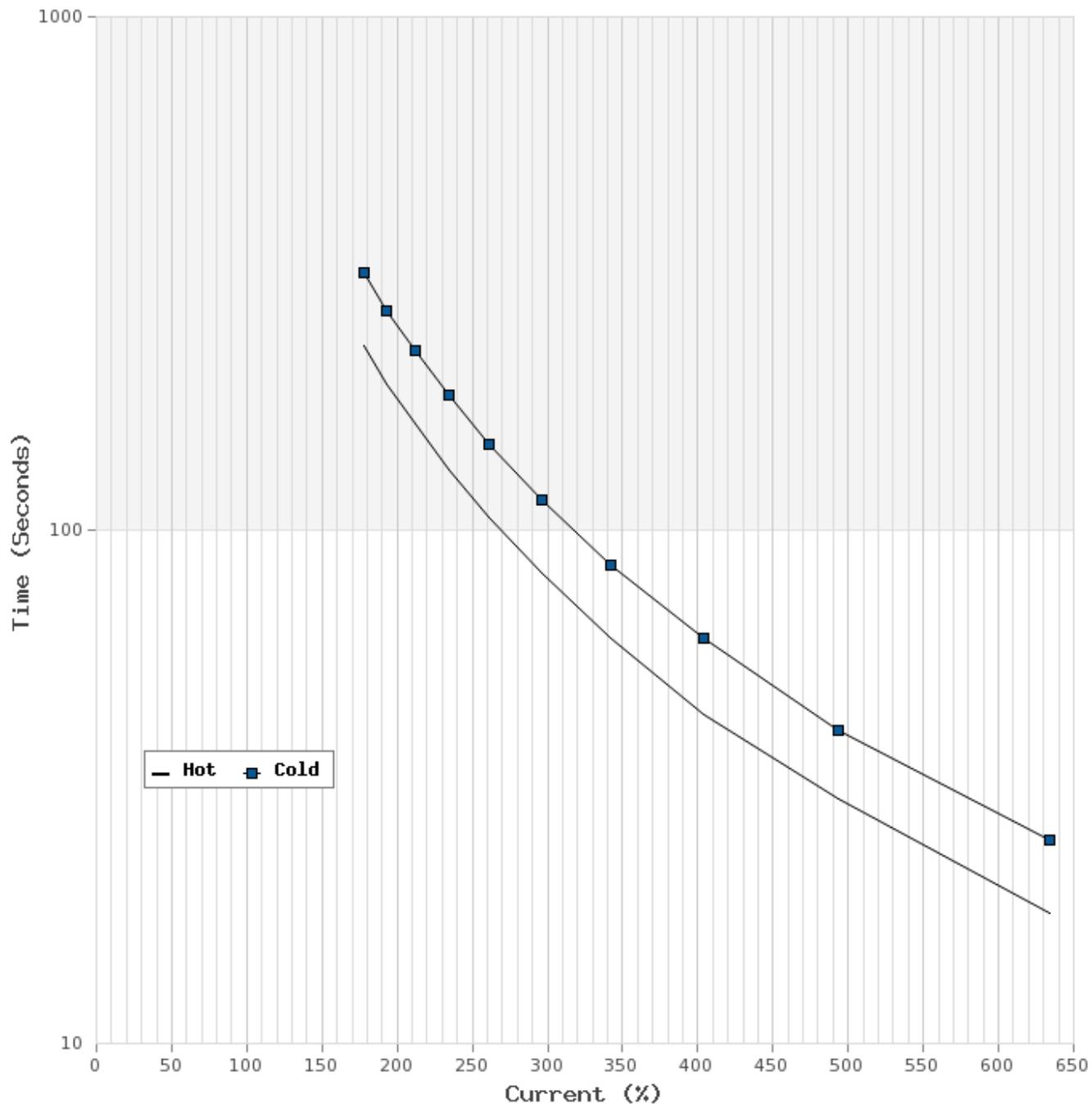


3 LEAD		SINGLE VOLTAGE			DELTA
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD_3D

Thermal Limit Curves

Motor Type: AEHH8R		Catalogue No: APH0304		Family: Advantage Plus IEEE Ready	
HP	30	Safe Stall Time		Full Load A	34.3 A
Voltage	460V 60Hz	Hot	18 s	% Inrush	636 %
RPM	1800	Cold	25 s	Locked Rotor A	218 A



T-N and I-N Curves

Motor Type: AEHH8R		Catalogue No: APH0304		Family: Advantage Plus IEEE Ready	
HP	30	Full Load T	88.99 lb-ft	Full Load A	34.3 A
Voltage	460V 60Hz	Locked Rotor T	200 %	Locked Rotor A	218.0 A
RPM	1800	Pull Up T	160 %	Break Down T	235 %

