

Technical Documentation

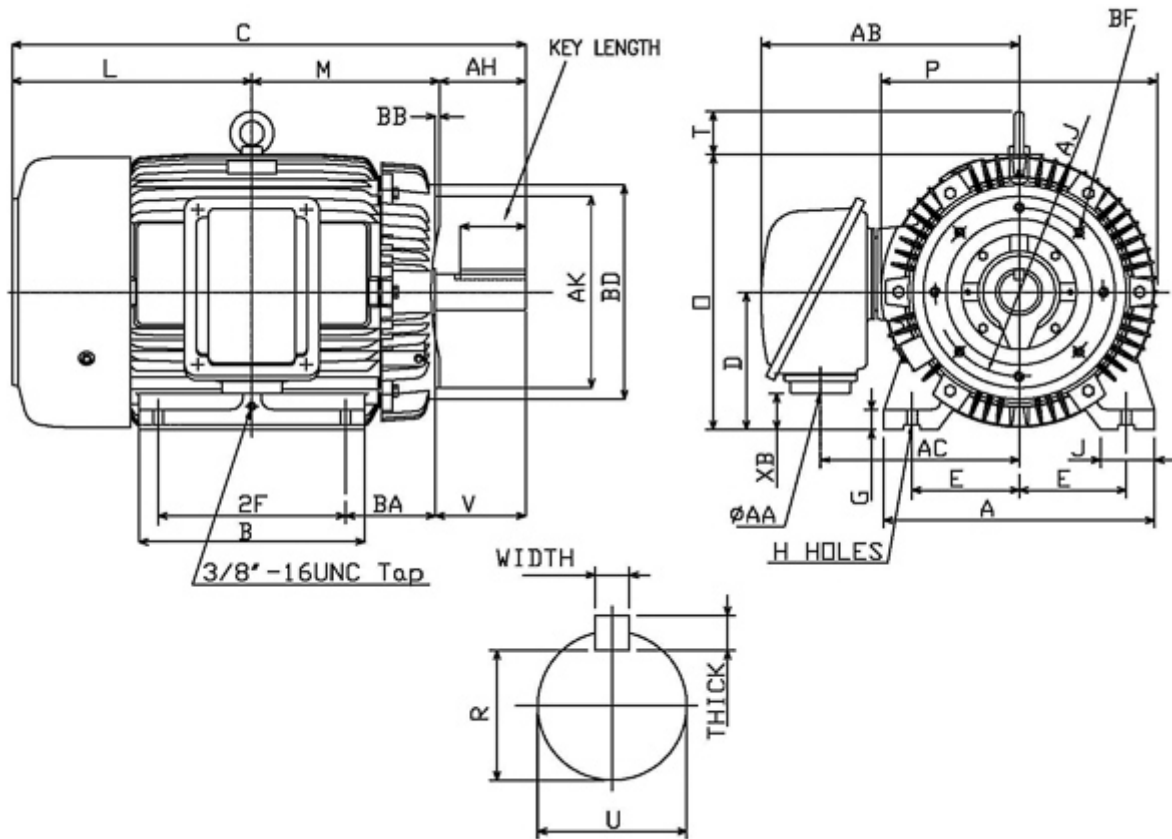
APH03085C

Advantage Plus IEEE Ready | AEHH8R

Date: August 7, 2020

Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
APH03085C	AEHH8R	30	8	22	Continuous	575	60	900



Frame Size		Mounting					A	B	C	CD	D
		E	2F	2F2	H	BA					
364TC		7	11.25		0.66	5.88	17.7	13.78	32.57		9

G	J	K	L	M	O	P	T	Key			Keyseat
								Width	Thick	Length	R
1.32	3.54		15.17	11.09	17.99	18.03	2.76	0.625	0.625	4.28	2.021

Terminal Housing				Aux Box		C/D Flange					
AA	AB	AC	XB	AE	AX	BB	AH	AK	BD	AJ	BF
NPT3"	16.81	12.99	2.39								

Shaft Extension			Bearings		Approx. Weight Lbs	SPL dBA/3ft	Ins. Class	S.F.	Drive Method	Dimensions
N-W	U	V	DE	NDE						
5.88	2.375	5.75	6313ZC3	6213ZC3	898	71	F	1.15	Direct Coupling / Belt Drive	Inches

	
	Date: August 7, 2020

Technical Data Sheet

Motor Type: AEHH8R	Catalogue No: APH03085C
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Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
30	8	885	364TC	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.					
93.0	91.7	93.0	92.4	77.5	72.0	62.0
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
178.00	200	170	200	14.5	31.2	174
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	17.938	769.00	1833.00	50	35	71

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 / T3A	

Additional Information

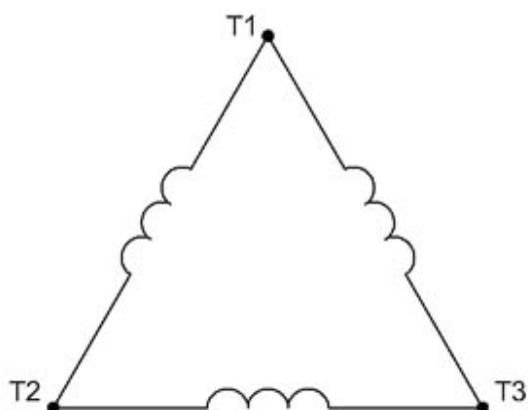
Bearings		Approx. Weight
DE	NDE	lbs
6313ZC3	6213ZC3	898

Nameplate Drawing

Advantage Plus IEEE Ready

TYPE	AEHH8R	CAT. NO.	APH03085C		
OUTPUT	30 HP 22 kW	FRAME	364TC	TEFC	
R.P.M.	885	POLE	8	INS.	F
VOLTS	575	PHASE	3	Hz	60
AMPS	31.2	CODE	G	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 93.0		MIN. EFF. 91.7	
BEARINGS	6313ZC3 / 6213ZC3			RATING Cont.	
SER. NO.	TBD		DESIGN	B	WT. 898 LBS
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	6-60Hz	60-120Hz	1.0 Only	

Connection Diagram

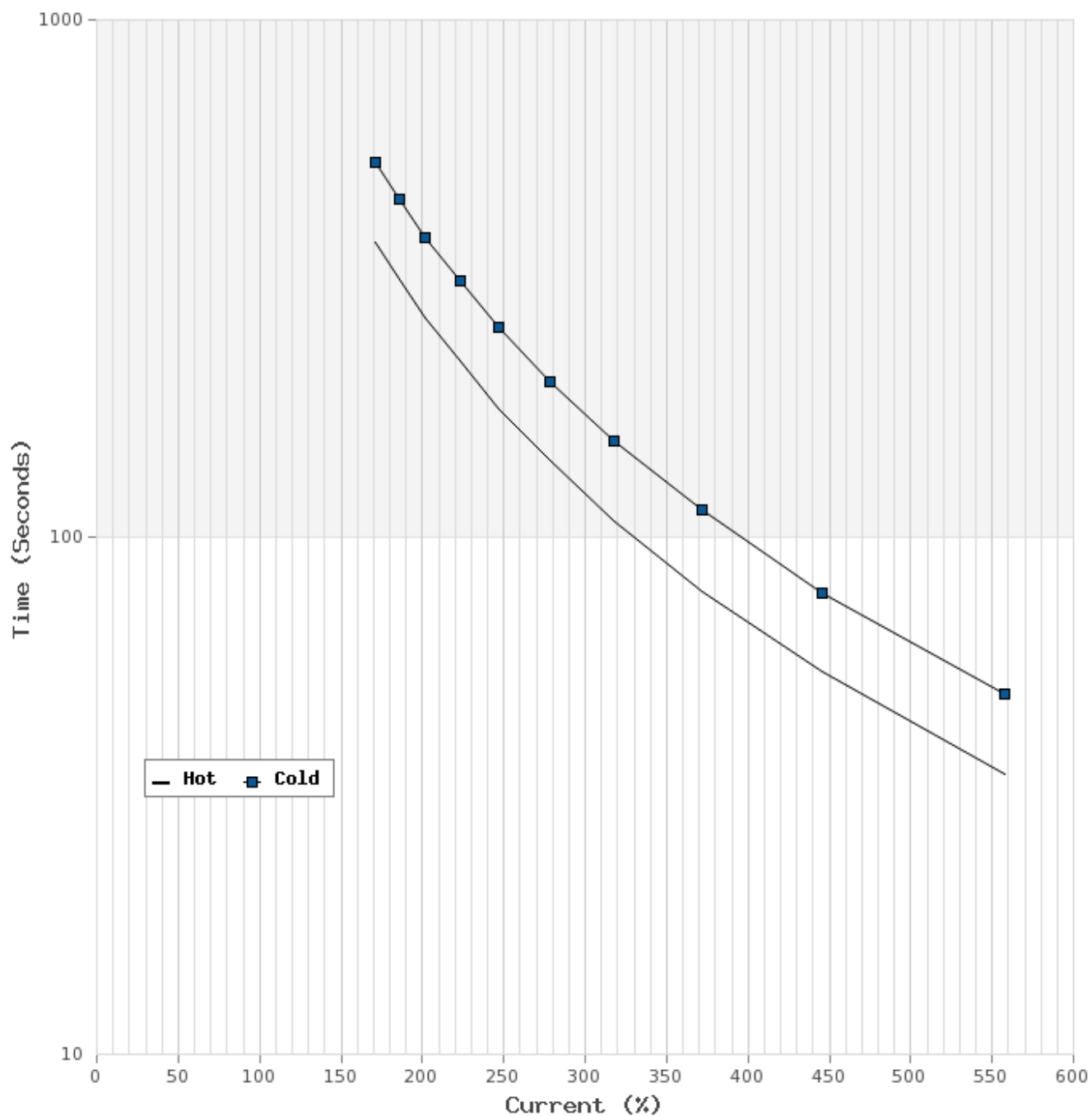


3 LEAD		SINGLE VOLTAGE			DELTA
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD_3D

Thermal Limit Curves

Motor Type: AEHH8R		Catalogue No: APH03085C		Family: Advantage Plus IEEE Ready	
HP	30	Safe Stall Time		Full Load A	31.2 A
Voltage	575V 60Hz	Hot	35 s	% Inrush	558 %
RPM	900	Cold	50 s	Locked Rotor A	174 A



T-N and I-N Curves

Motor Type: AEHH8R		Catalogue No: APH03085C		Family: Advantage Plus IEEE Ready	
HP	30	Full Load T	178.00 lb-ft	Full Load A	31.2 A
Voltage	575V 60Hz	Locked Rotor T	200 %	Locked Rotor A	174.0 A
RPM	900	Pull Up T	170 %	Break Down T	200 %

