

Technical Documentation

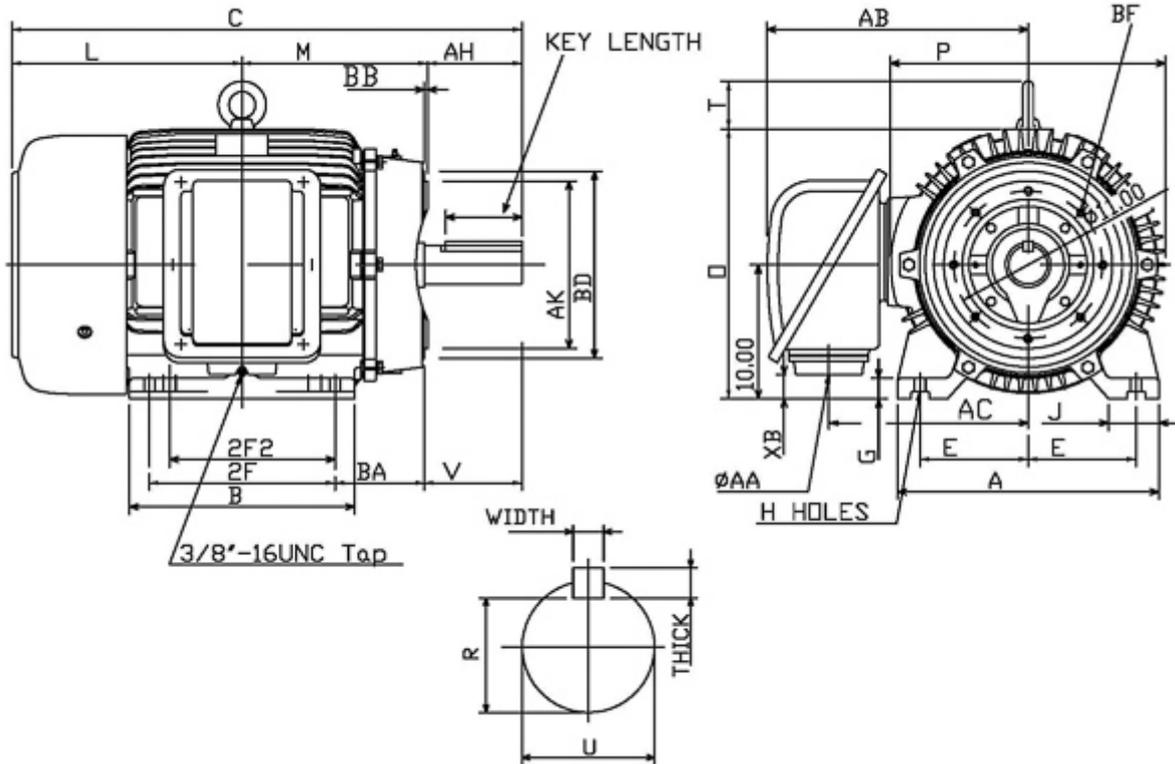
APH06085C

Advantage Plus IEEE Ready | AEHH8R

Date: August 8, 2020

Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
APH06085C	AEHH8R	60	8	45	Continuous	575	60	900



Frame Size	Mounting					A	B	C	CD	D	
	E	2F	2F2	H	BA						
405TC	8	13.75	12.25	0.81	6.62	19.68	16.73	37.99		10	
G	J	K	L	M	O	P	T	Key			Keyseat
1.57	3.94		17.24	13.27	20	20.08	3.54	Width	Thick	Length	R
								0.75	0.75	5.65	2.45
Terminal Housing			Aux Box			C/D Flange					
AA	AB	AC	XB	AE	AX	BB	AH	AK	BD	AJ	BF
NPT3"	19.41	14.76	1.81								
Shaft Extension			Bearings		Approx. Weight Lbs	SPL dBA/3ft	Ins. Class	S.F.	Drive Method	Dimensions	
N-W	U	V	DE	NDE							
7.25	2.875	7.16	6317C3	6313ZC3	1298	73	F	1.15	Direct Coupling / Belt Drive	Inches	

 MOTORS (CANADA) INC.	
	Date: August 8, 2020

Technical Data Sheet

Motor Type: AEHH8R	Catalogue No: APH06085C
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Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
60	8	885	405TC	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	93.6	93.6	81.0	78.5	70.0
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
356.00	200	175	230	22.1	59.7	348
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	32.550	1473.00	3124.00	36	25	73

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 / T3A

Additional Certifications

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

Additional Information

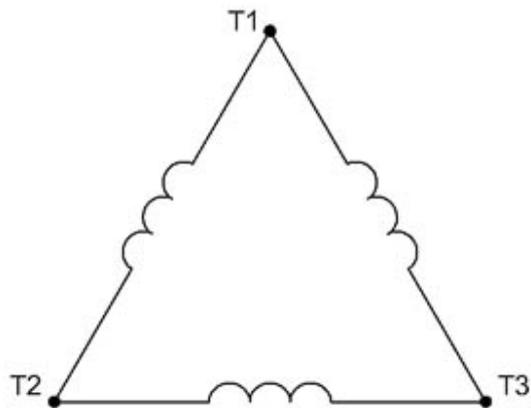
Bearings		Approx. Weight
DE	NDE	lbs
6317C3	6313ZC3	1298

Nameplate Drawing

Advantage Plus IEEE Ready

TYPE	AEHH8R	CAT. NO.	APH06085C		
OUTPUT	60 HP 45 kW	FRAME	405TC	TEFC	
R.P.M.	885	POLE	8	INS.	F
VOLTS	575	PHASE	3	Hz	60
AMPS	59.7	CODE	G	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 93.0		MIN. EFF. 91.7	
BEARINGS	6317C3 / 6313ZC3			RATING Cont.	
SER. NO.	TBD	DESIGN	B	WT. 1298 LBS	
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	6-60Hz	60-120Hz	1.0 Only	

Connection Diagram

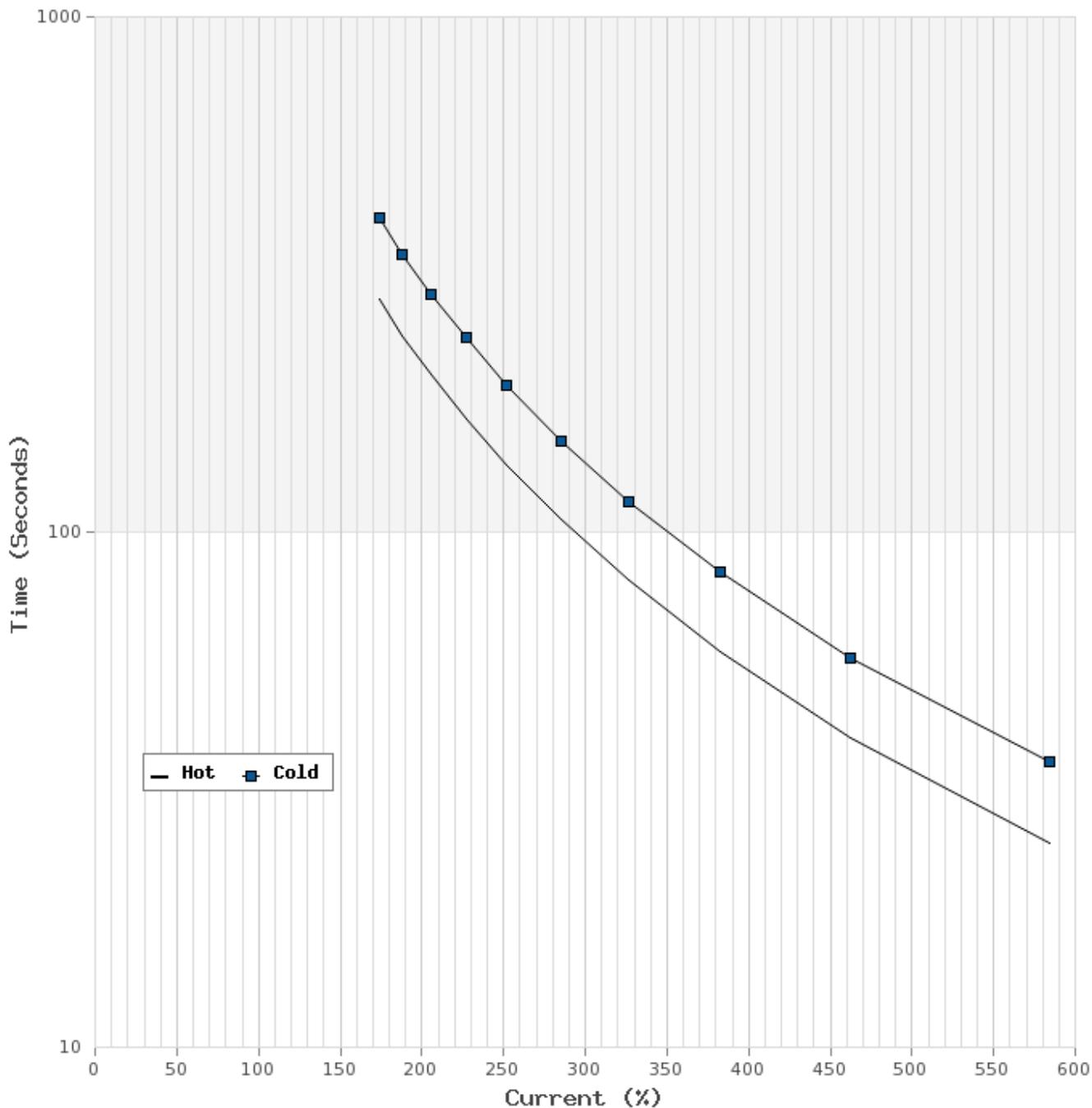


3 LEAD		SINGLE VOLTAGE			DELTA
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD_3D

Thermal Limit Curves

Motor Type: AEHH8R		Catalogue No: APH06085C		Family: Advantage Plus IEEE Ready	
HP	60	Safe Stall Time		Full Load A	59.7 A
Voltage	575V 60Hz	Hot	25 s	% Inrush	583 %
RPM	900	Cold	36 s	Locked Rotor A	348 A



T-N and I-N Curves

Motor Type: AEHH8R		Catalogue No: APH06085C		Family: Advantage Plus IEEE Ready	
HP	60	Full Load T	356.00 lb-ft	Full Load A	59.7 A
Voltage	575V 60Hz	Locked Rotor T	200 %	Locked Rotor A	348.0 A
RPM	900	Pull Up T	175 %	Break Down T	230 %

