


Technical Documentation

APH0508D

Advantage Plus IEEE Ready | AEHH8R

Date: August 10, 2020

	
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Technical Data Sheet

Motor Type: AEHH8R	Catalogue No: APH0508D
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Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
50	8	885	404TD	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.					
93.0	91.7	93.6	93.0	80.5	77.0	67.5
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
296.60	200	175	230	24.4	62.5	363
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	31.465	1241.00	2666.00	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

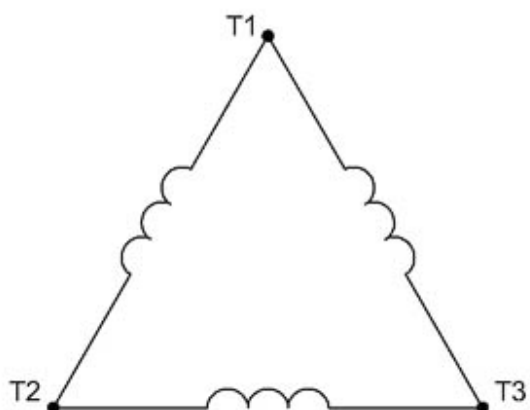
Bearings		Approx. Weight
DE	NDE	lbs
6317C3	6313ZC3	1166

Nameplate Drawing

Advantage Plus IEEE Ready

TYPE	AEHH8R	CAT. NO.	APH0508D		
OUTPUT	50 HP 37 kW	FRAME	404TD	TEFC	
R.P.M.	885	POLE	8	INS.	F
VOLTS	460	PHASE	3	Hz	60
AMPS	62.5	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. 1166 LBS	
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	6-60Hz	60-120Hz	1.0 Only	

Connection Diagram

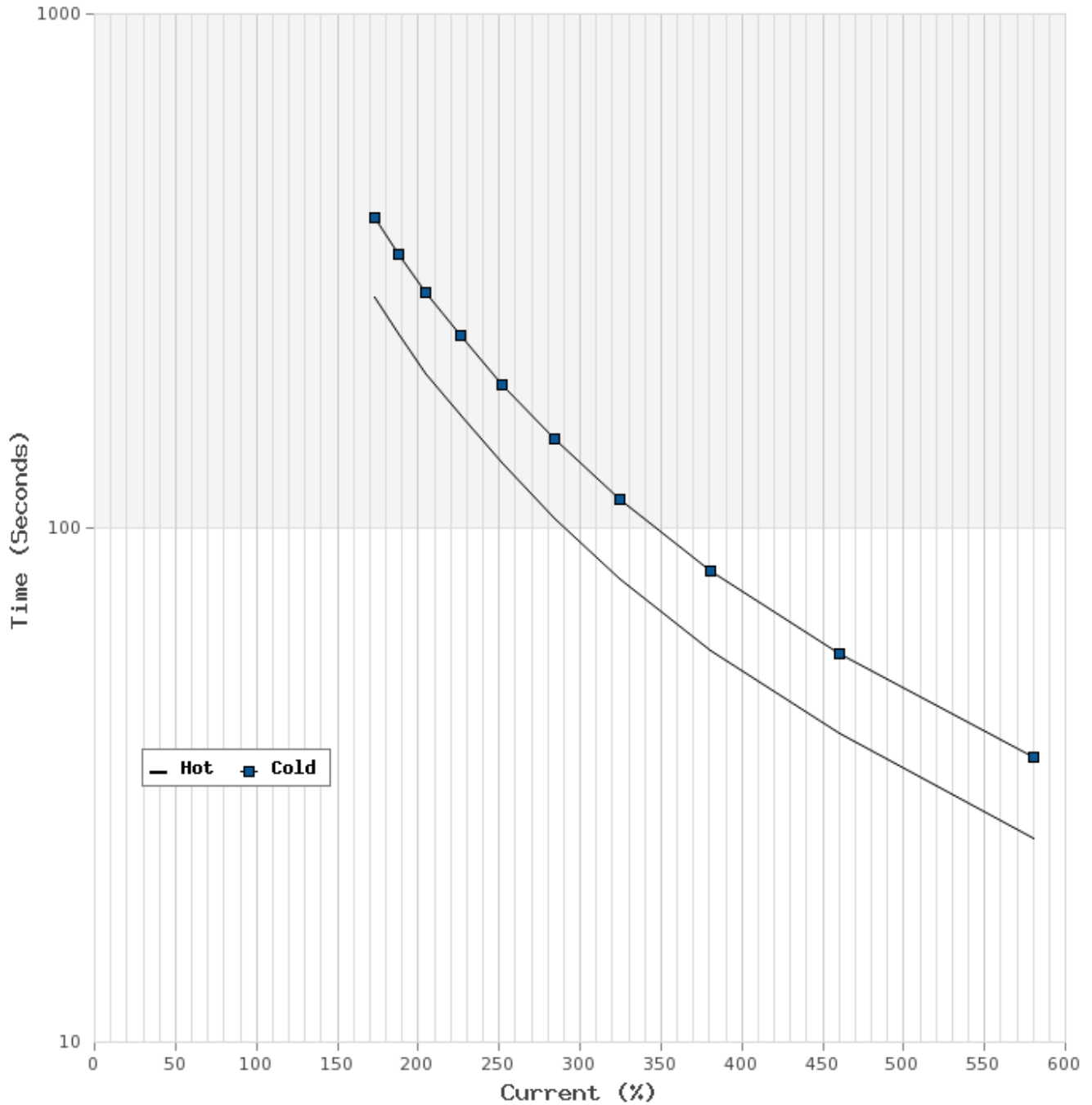


3 LEAD		SINGLE VOLTAGE			DELTA
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD_3D

Thermal Limit Curves

Motor Type: AEHH8R		Catalogue No: APH0508D		Family: Advantage Plus IEEE Ready	
HP	50	Safe Stall Time		Full Load A	62.5 A
Voltage	460V 60Hz	Hot	25 s	% Inrush	580 %
RPM	900	Cold	36 s	Locked Rotor A	363 A



T-N and I-N Curves

Motor Type: AEHH8R		Catalogue No: APH0508D		Family: Advantage Plus IEEE Ready	
HP	50	Full Load T	296.60 lb-ft	Full Load A	62.5 A
Voltage	460V 60Hz	Locked Rotor T	200 %	Locked Rotor A	363.0 A
RPM	900	Pull Up T	175 %	Break Down T	230 %

