

Technical Documentation

**APH03085D**  
**Advantage Plus IEEE Ready | AEHH8R**

Date: August 10, 2020

 MOTORS (CANADA) INC.	
	Date: August 10, 2020

### Technical Data Sheet

Motor Type: AEHH8R	Catalogue No: APH03085D
--------------------	-------------------------

#### Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
30	8	885	364TD	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 <sup>2</sup> )			Safe Stall Time (s)		Noise Level Sound Press. dB(A)
	Rotor (lb-ft <sup>2</sup> )	NEMA Load (lb-ft <sup>2</sup> )	Max. Allowable (lb-ft <sup>2</sup> )	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

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

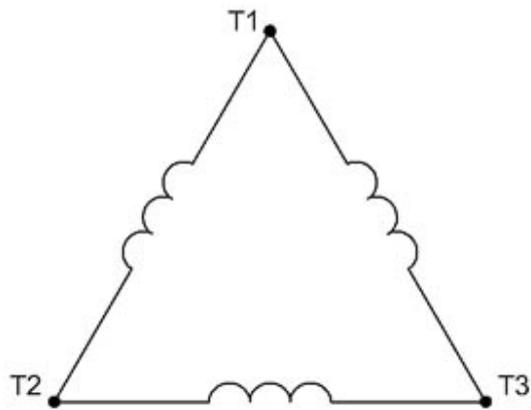
Bearings		Approx. Weight
DE	NDE	lbs
6313ZC3	6213ZC3	898

**Nameplate Drawing**

# Advantage Plus IEEE Ready

TYPE	AEHH8R	CAT. NO.	APH03085D		
OUTPUT	30 HP 22 kW	FRAME	364TD	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**

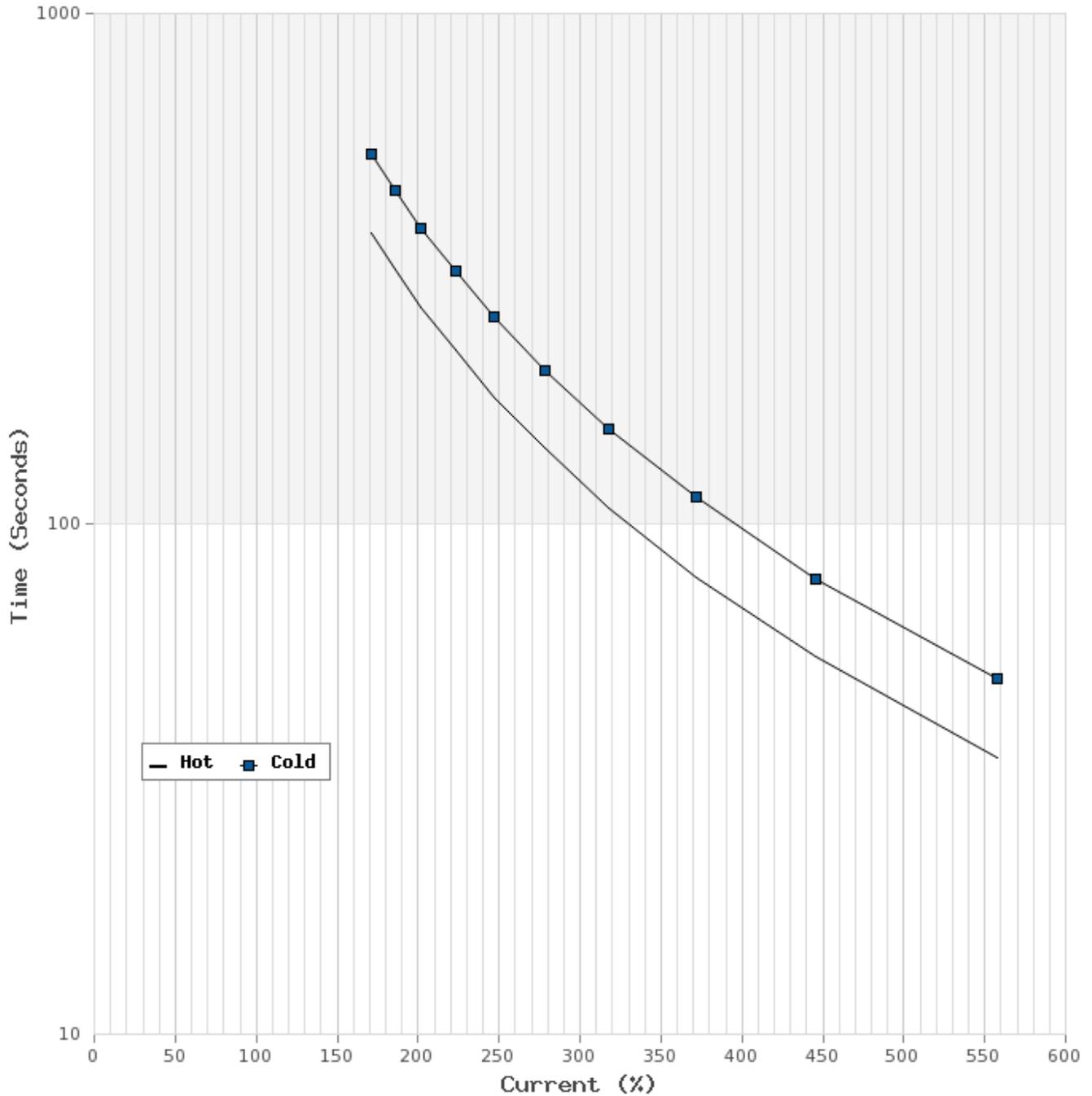


3 LEAD		SINGLE VOLTAGE			DELTA
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD\_3D

**Thermal Limit Curves**

Motor Type: AEHH8R		Catalogue No: APH03085D		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: APH03085D		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 %

