

Motor Data Sheet - Aerobic Feed Pumps
19-P-058 A/B

Technical Documentation

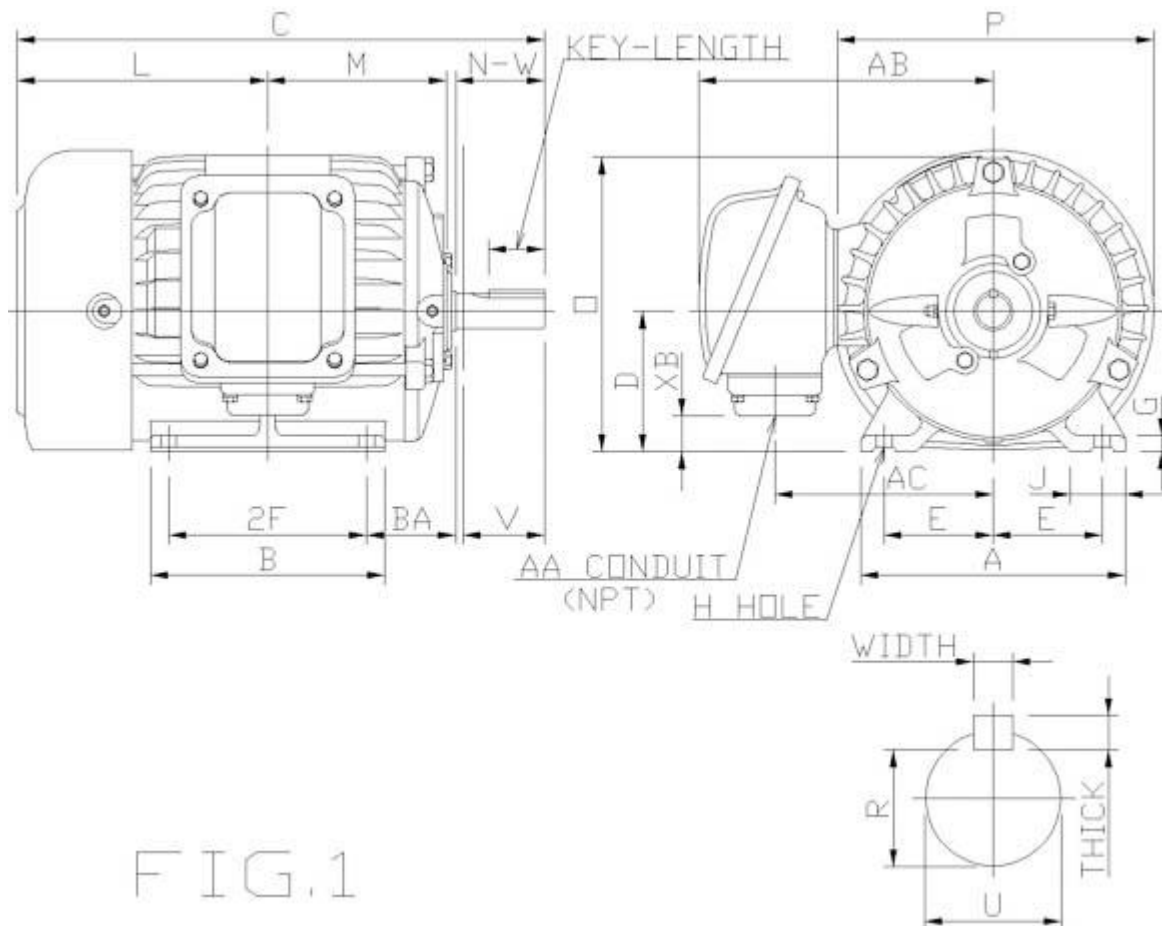
APH0024-841

Advantage Plus IEEE 841 | AEHH8B

Date: November 3, 2021

Dimensional Drawing

Catalogue	Type	HP	RPM	Voltage	Hz	Frame Size
APH0024-841	AEHH8B	2	1800	460	60	145T



Mounting					A	B	C	CL1	CL2	D	G
E	2F1	2F2	H	BA							
2.75	5	4	0.34	2.25	6.7	5.1	13.54			3.5	0.35

J	K	L	M	O	P	T
1.4		6.54	4.53	7.48	7.95	

Terminal Housing			
AA	AB	AC	XB
NPT3/4"	7.56	5.63	0.86

Shaft Extension			Key			Keyseat
N-W	U	V	Width	Thick	Length	R
2.25	0.875	2.2	0.188	0.188	1.41	0.771

Bearings		Weight Lbs	Drive Method	Dimensions
DE	NDE			
6205ZC3	6205ZC3	59	Direct Coupling / Belt Drive	Inches

Technical Data Sheet

Motor Type: AEHH8B

Catalogue No: APH0024-841

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
2	4	1740	145T	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.					
86.50	84.00	84.00	84.00	78.00	70.00	57.00
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
6.04	270	220	330	1.5	2.8	25.00
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	
L	0.108	11.00	51.00	43	30	51.0

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	
Temp Code (Sinewave / VFD)	T3C / T3C

Additional Information

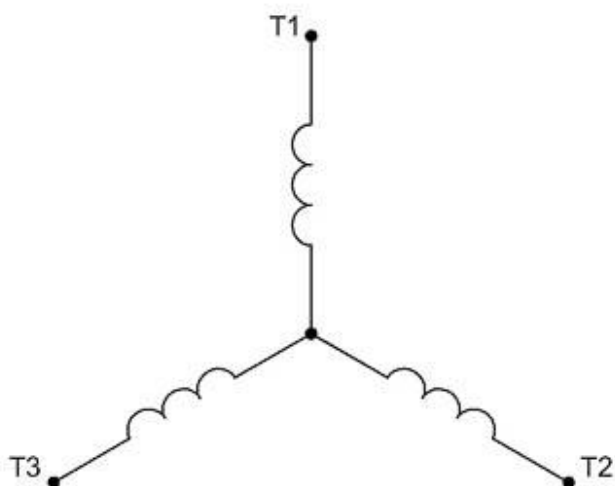
Bearings		Approx. Weight
DE	NDE	lbs
6205ZC3	6205ZC3	59

Nameplate Drawing

Advantage Plus IEEE 841

TYPE	AEHH8B	CAT. NO.	APH0024-841		
OUTPUT	2 HP 1.49 kW	FRAME	145T	TEFC	
R.P.M.	1740	POLE	4	INS.	F
VOLTS	460	PHASE	3	Hz	60
AMPS	2.8	CODE	L	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 86.50		MIN. EFF. 84.00	
BEARINGS	6205ZC3 / 6205ZC3			RATING Cont.	
SER. NO.	TBD		DESIGN	B	WT. 59 LBS
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	6-60Hz	60-120Hz	1.0 Only	

Connection Diagram

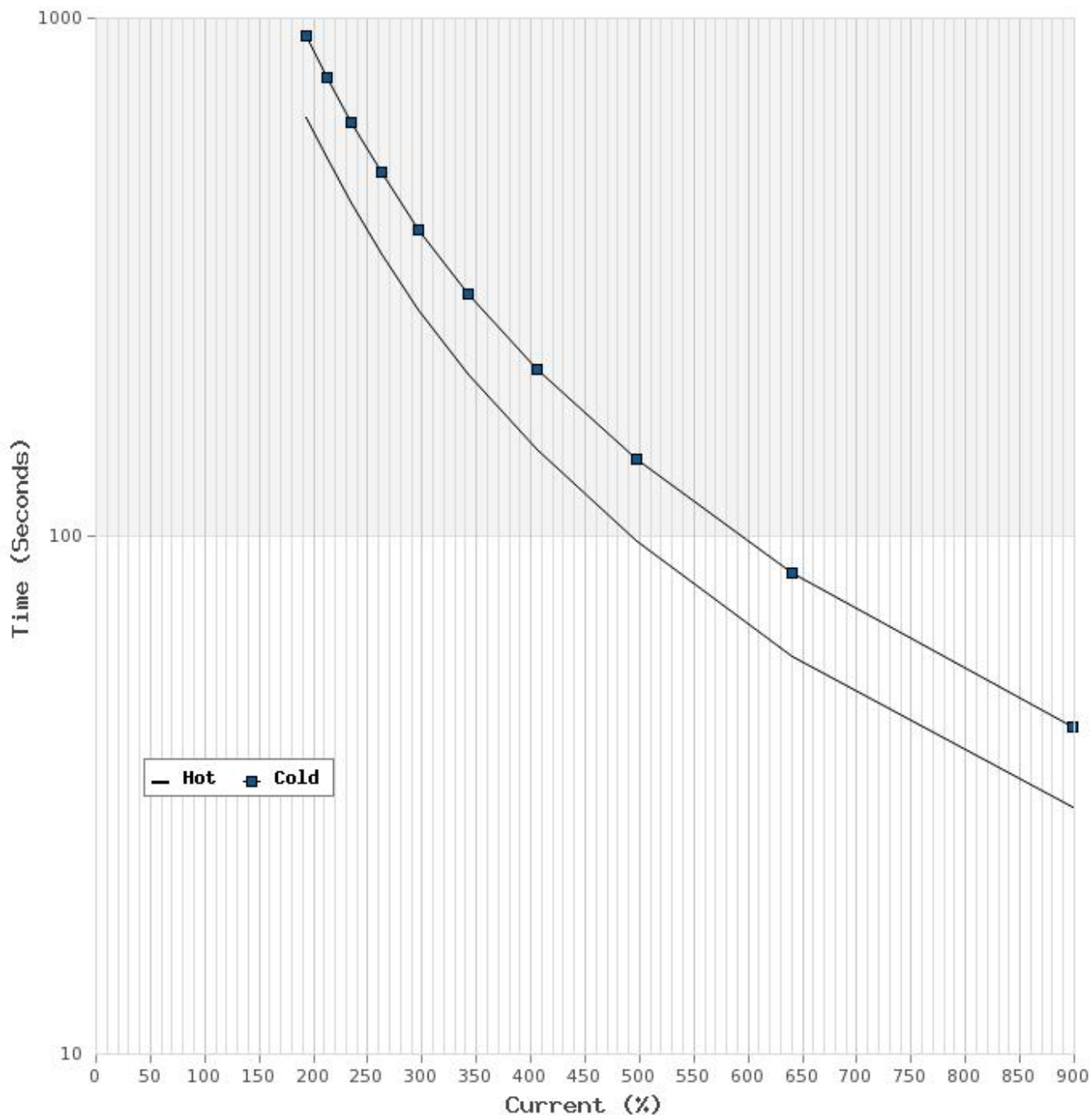


3 LEAD		SINGLE VOLTAGE			WYE
VOLTAGE	CONN.	L1	L2	L3	
-	WYE	1	2	3	

WD_3Y

Thermal Limit Curves

Motor Type: AEHH8B		Catalogue No: APH0024-841		Family: Advantage Plus IEEE 841	
HP	2	Safe Stall Time		Full Load A	2.8 A
Voltage	460V 60Hz	Hot	30 s	% Inrush	899 %
RPM	1800	Cold	43 s	Locked Rotor A	25.00 A



T-N and I-N Curves

Motor Type: AEHH8B		Catalogue No: APH0024-841		Family: Advantage Plus IEEE 841	
HP	2	Full Load T	6.04 lb-ft	Full Load A	2.8 A
Voltage	460V 60Hz	Locked Rotor T	270 %	Locked Rotor A	25.0 A
RPM	1800	Pull Up T	220 %	Break Down T	330 %

