

Technical Documentation

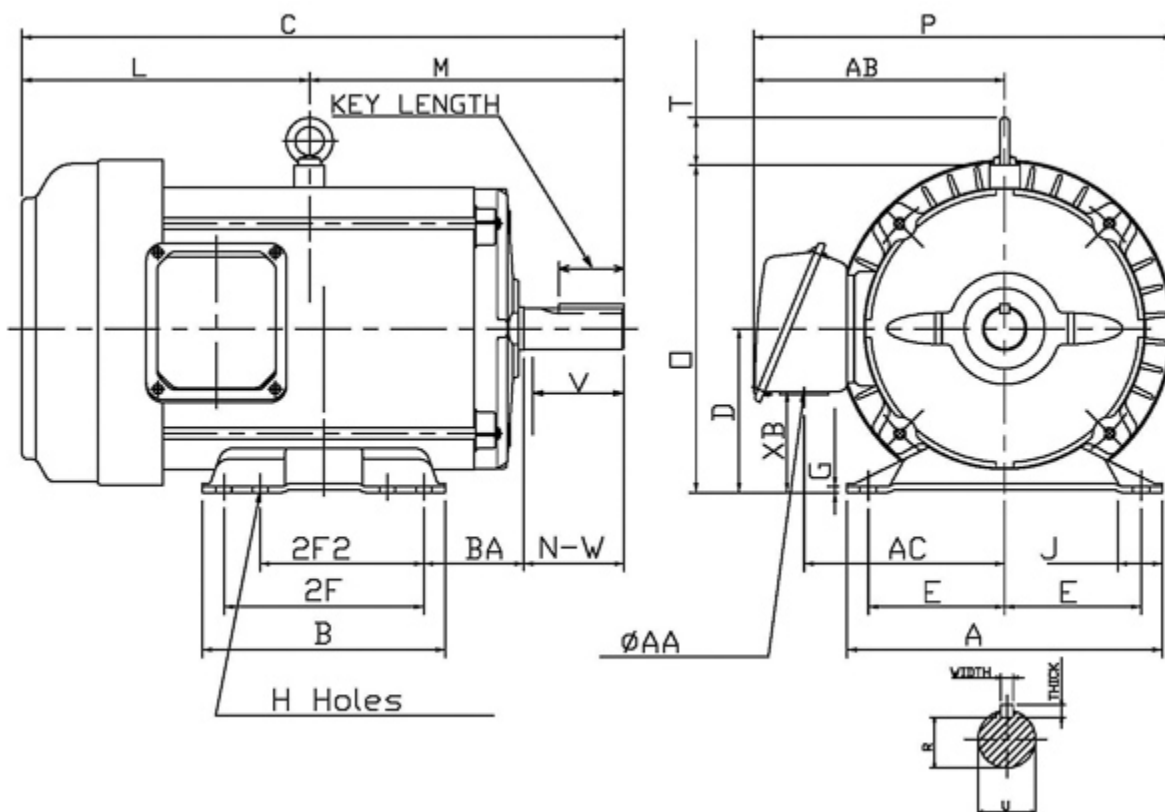
RF1/565

Rolled Steel TEFC | AEGH

Date: December 1, 2016

Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
RF1/565	AEGH	1.5	6	1.12	Continuous	575 V	60	1200



Frame Size		Mounting					A	B	C	CD	D
		E	2F	2F2	H	BA					
182T		7.5	5.5	4.5	0.41	2.75	8.66	6.68	16.55		4.5

G	J	K	L	M	O	P	T	Key			Keyseat
								Width	Thick	Length	R
0.16	1.22		7.91	8.64	8.99	9.25	1.31	0.25	0.25	1.78	0.986

Terminal Housing				Aux Box		C/D Flange					
AA	AB	AC	XB	AE	AX	BB	AH	AK	BD	AJ	BF
1.1	6.9	5.51	2.77								

Shaft Extension			Bearings		Approx. Weight Lbs	SPL dBA/3ft	Ins. Class	S.F.	Drive Method	Dimensions
N-W	U	V	DE	NDE						
2.75	1.125	2.7	6206ZZ	6205ZZ	65	50	F	1.15	Direct Coupling / Belt Drive	Inches

Technical Data Sheet

Motor Type: AEGH

Catalogue No: RF1/565

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
1.5	6	1170	182T	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	<3300 ft

Typical Performance

Efficiency (%)				Power Factor (%)		
Full Load		3/4 Load	1/2 Load	Full Load	3/4 Load	1/2 Load
Nom.	Min.					
87.5	85.5	85.0	81.0	55.0	46.0	34.5
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
6.73	200	190	340	0.9	2.3	16
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	
M	0.310	22.7	219	94	66	50

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

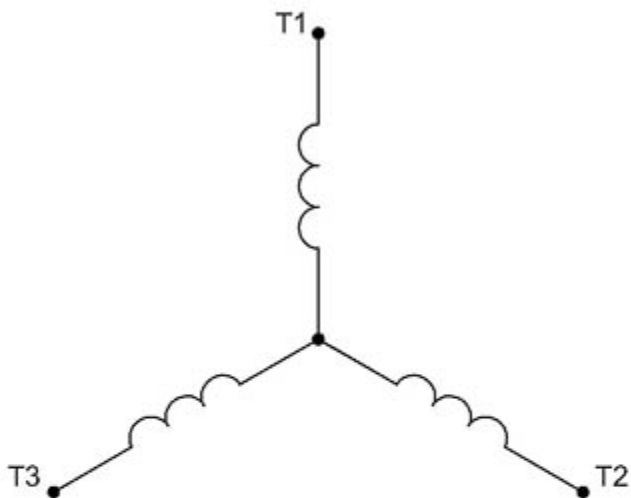
Additional Information

Bearings		Approx. Weight
DE	NDE	lbs
6206ZZ	6205ZZ	65

Hazardous Locations Information

N/A	
0	
0	
Temp Code (Sinewave / VFD)	0 / 0

Connection Diagram

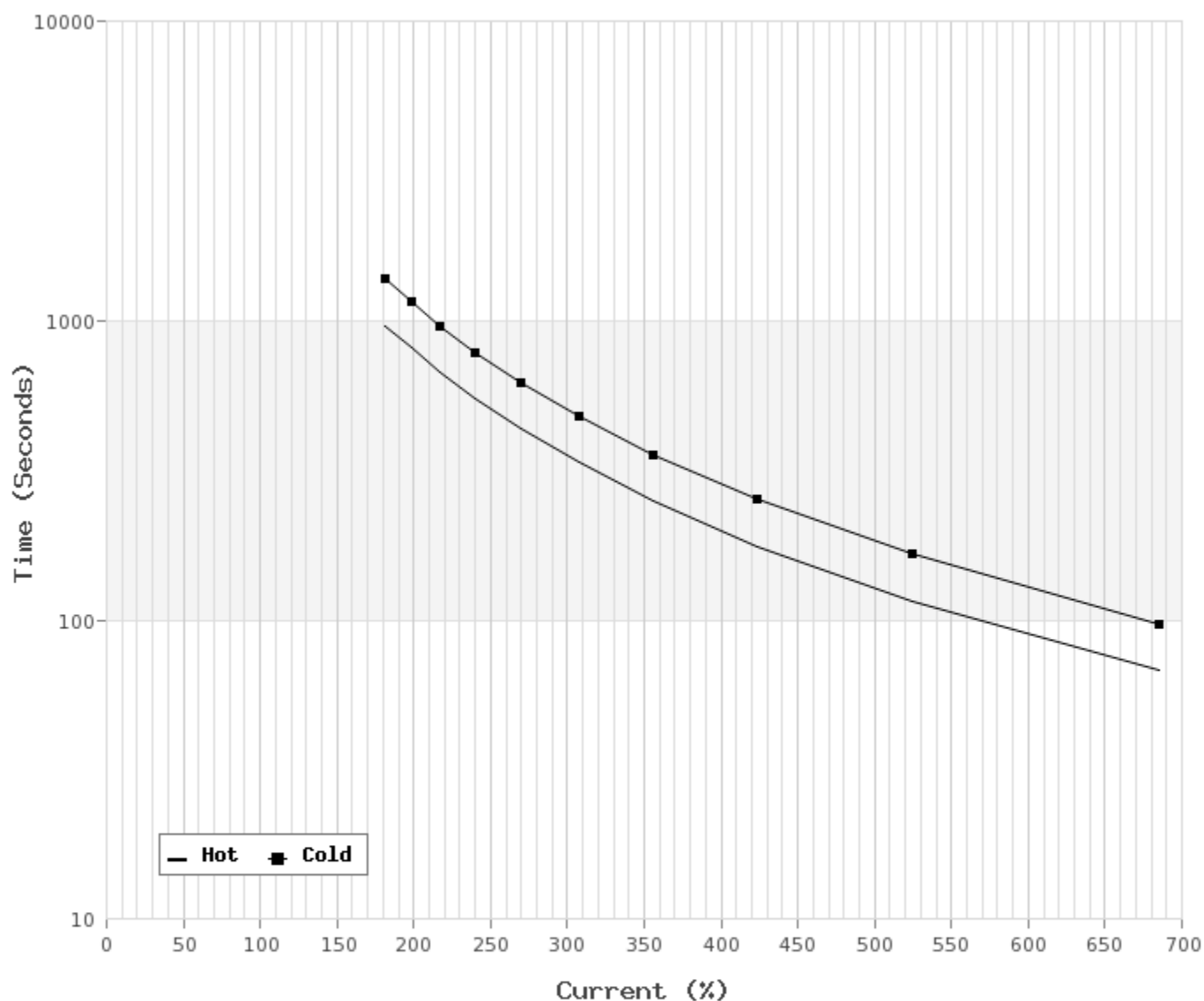


3 LEAD		SINGLE VOLTAGE			WYE
VOLTAGE	CONN.	L1	L2	L3	
-	WYE	1	2	3	

WD_3Y

Thermal Limit Curves

Motor Type: AEGH		Catalogue No: RF1/565		Family: Rolled Steel TEFC	
HP	1.5	Safe Stall Time		Full Load A	0.0 / 2.3 A
Voltage	0 / 575V 60Hz	Hot	66 s	Locked Rotor A	687 %
RPM	1200	Cold	94 s	Locked Rotor A	0.0 / 16 A



T-N and I-N Curves

Motor Type: AEGH		Catalogue No: RF1/565		Family: Rolled Steel TEFC	
HP	1.5	Full Load T	6.73 lb-ft	Full Load A	2.3 A
Voltage	575V 60Hz	Locked Rotor T	200 %	Locked Rotor A	16.0 A
RPM	1200	Pull Up T	190 %	Break Down T	340 %

