

Technical Documentation

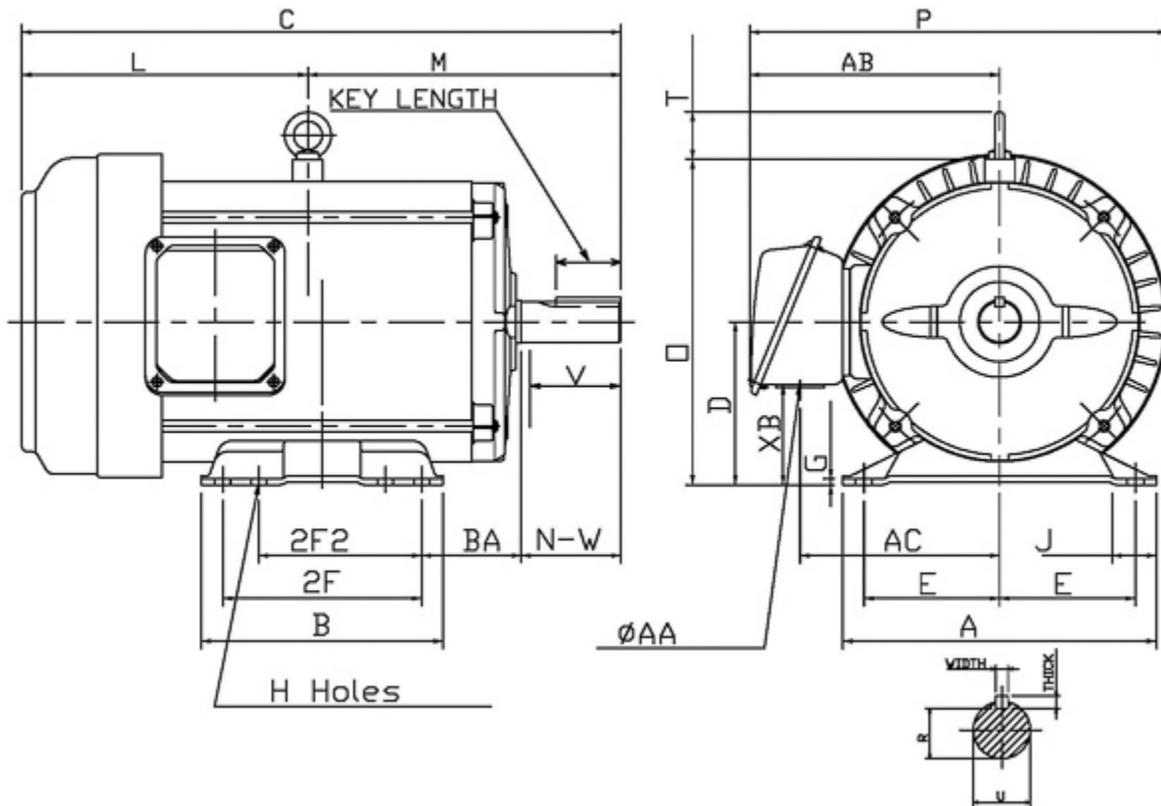
RF00525

Rolled Steel TEFC | AEGH

Date: December 1, 2016

Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
RF00525	AEGH	5	2	3.7	Continuous	575 V	60	3600



Frame Size	Mounting					A	B	C	CD	D	
	E	2F	2F2	H	BA						
184T	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 R
								Width	Thick	Length	
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	84	62	F	1.15	Direct Coupling / Belt Drive	Inches	

Technical Data Sheet

Motor Type: AEGH

Catalogue No: RF00525

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
5	2	3460	184T	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.					
89.5	87.5	91.0	91.0	90.0	87.0	79.0
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
7.59	260	255	335	0.7	4.7	37
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	
J	0.270	5.7	17	17	12	62

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

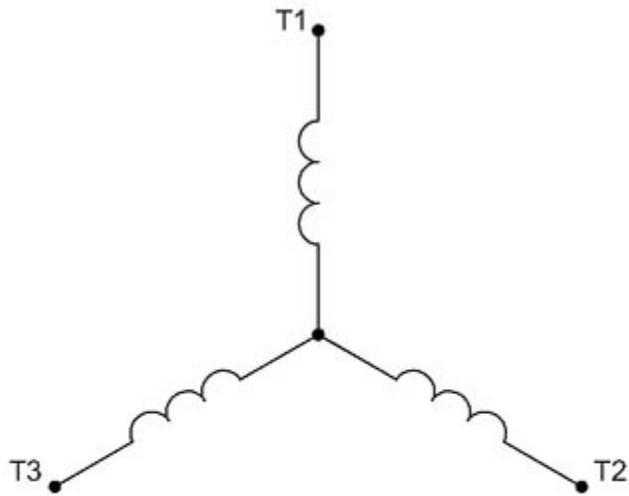
Additional Information

Bearings		Approx. Weight
DE	NDE	lbs
6206ZZ	6205ZZ	84

Hazardous Locations Information

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

Connection Diagram

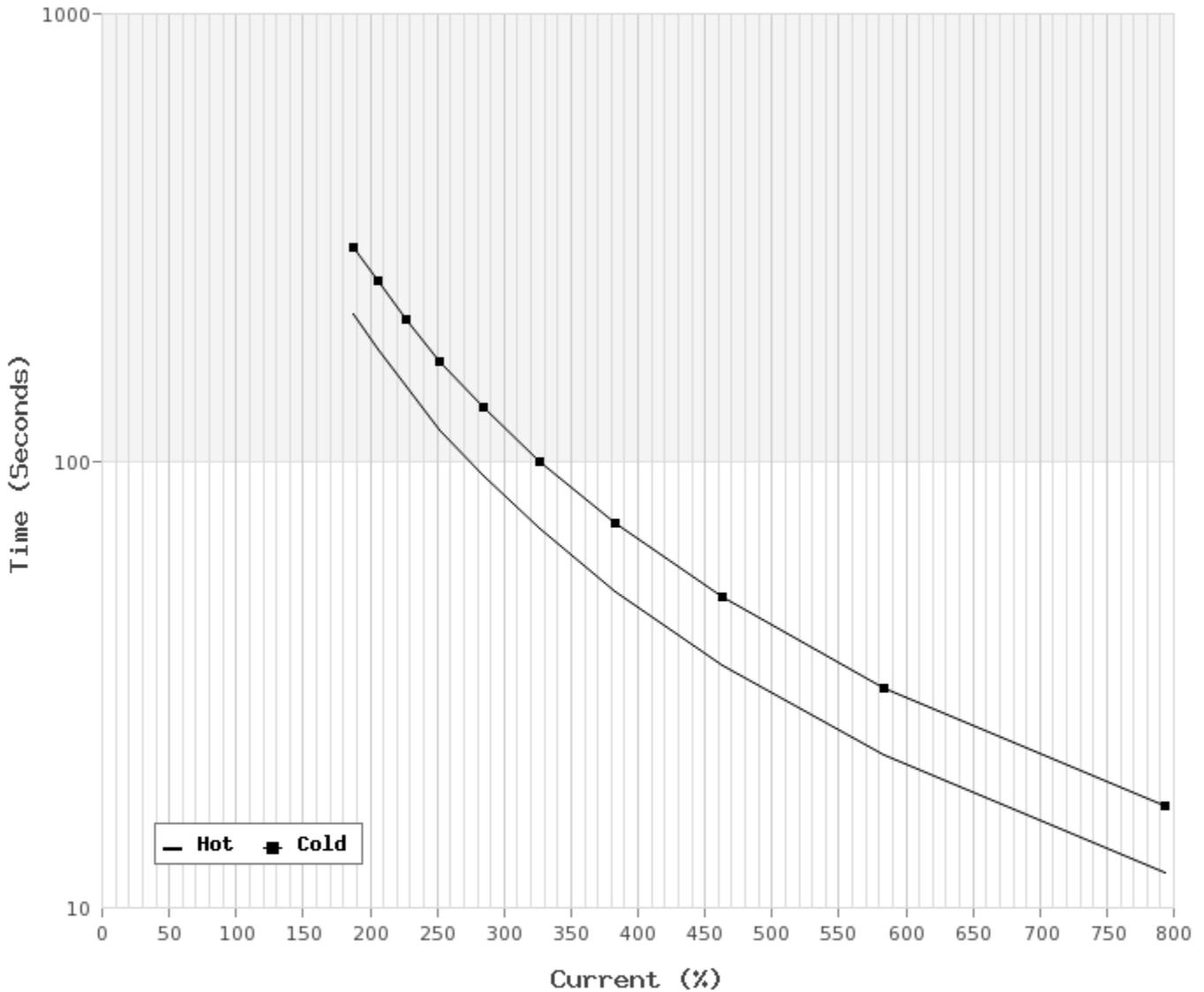


3 LEAD		SINGLE VOLTAGE			WYE
VOLTAGE	CONN.	L1	L2	L3	
-	WYE	1	2	3	

WD_3Y

Thermal Limit Curves

Motor Type: AEGH		Catalogue No: RF00525		Family: Rolled Steel TEFC	
HP	5	Safe Stall Time		Full Load A	0.0 / 4.7 A
Voltage	0 / 575V 60Hz	Hot	12 s	Locked Rotor A	796 %
RPM	3600	Cold	17 s	Locked Rotor A	0.0 / 37 A



T-N and I-N Curves

Motor Type: AEGH		Catalogue No: RF00525		Family: Rolled Steel TEFC	
HP	5	Full Load T	7.59 lb-ft	Full Load A	4.7 A
Voltage	575V 60Hz	Locked Rotor T	260 %	Locked Rotor A	37.0 A
RPM	3600	Pull Up T	255 %	Break Down T	335 %

