

Technical Documentation

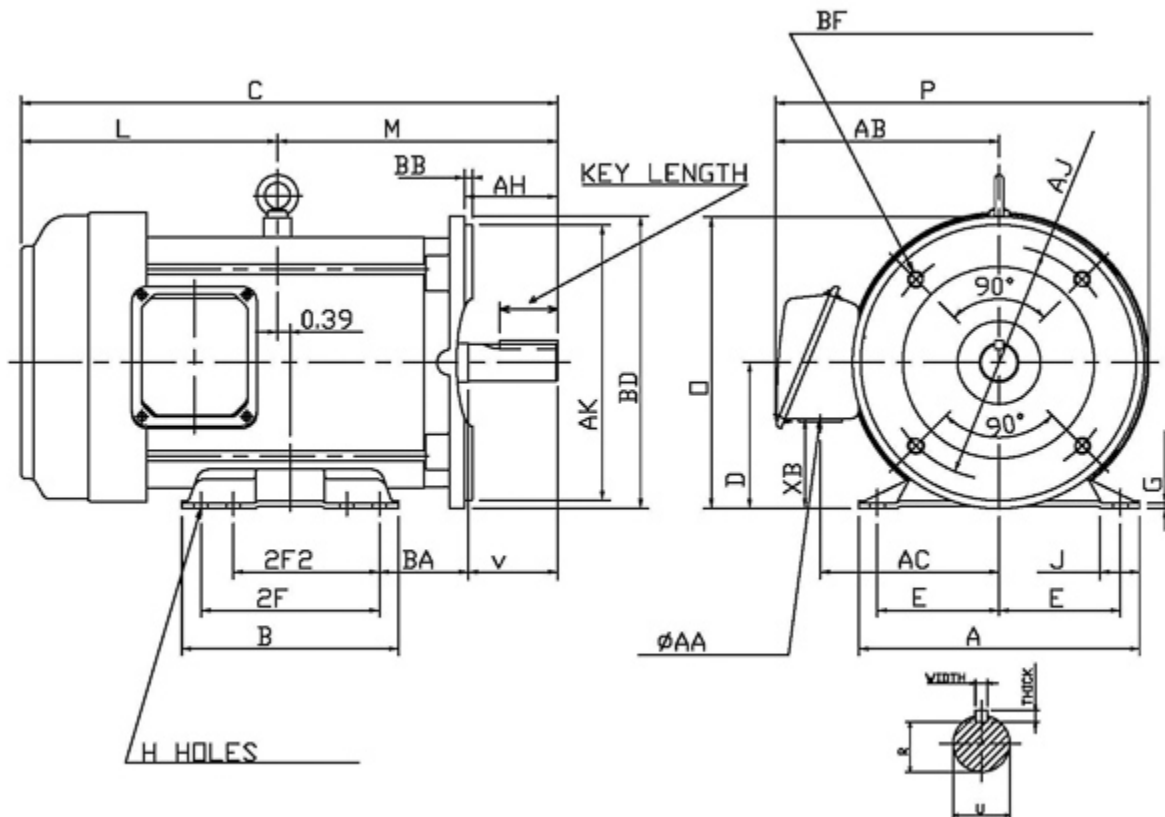
RF0054C

Rolled Steel TEFC | AEGH

Date: December 1, 2016

Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
RF0054C	AEGH	5	4	3.7	Continuous	230 / 460 V	60	1800



Frame Size		Mounting					A	B	C	CD	D
		E	2F	2F2	H	BA					
184TC		3.75	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			0.25	2.62	8.5	9	7.25	1/2-13
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	82	55	F	1.15	Direct Coupling / Belt Drive	Inches	

Technical Data Sheet

Motor Type: AEGH

Catalogue No: RF0054C

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
5	4	1740	184TC	230 / 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	<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	90.0	89.0	80.0	73.5	61.0
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
15.09	215	210	300	3.3 / 1.6	13.1 / 6.5	92 / 46
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	0.416	26.8	99	30	21	55

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

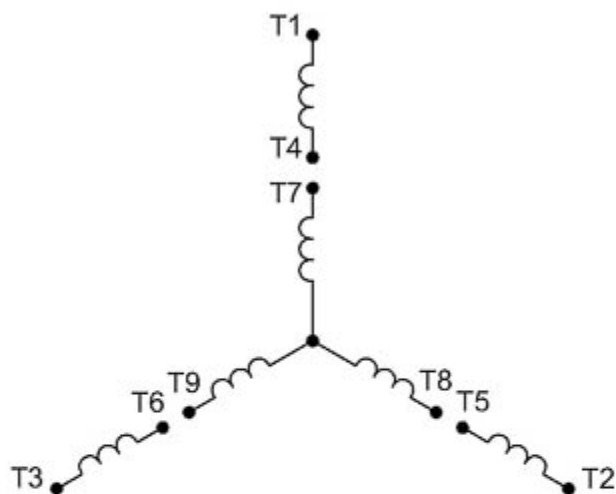
Additional Information

Bearings		Approx. Weight
DE	NDE	lbs
6206ZZ	6205ZZ	82

Hazardous Locations Information

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

Connection Diagram

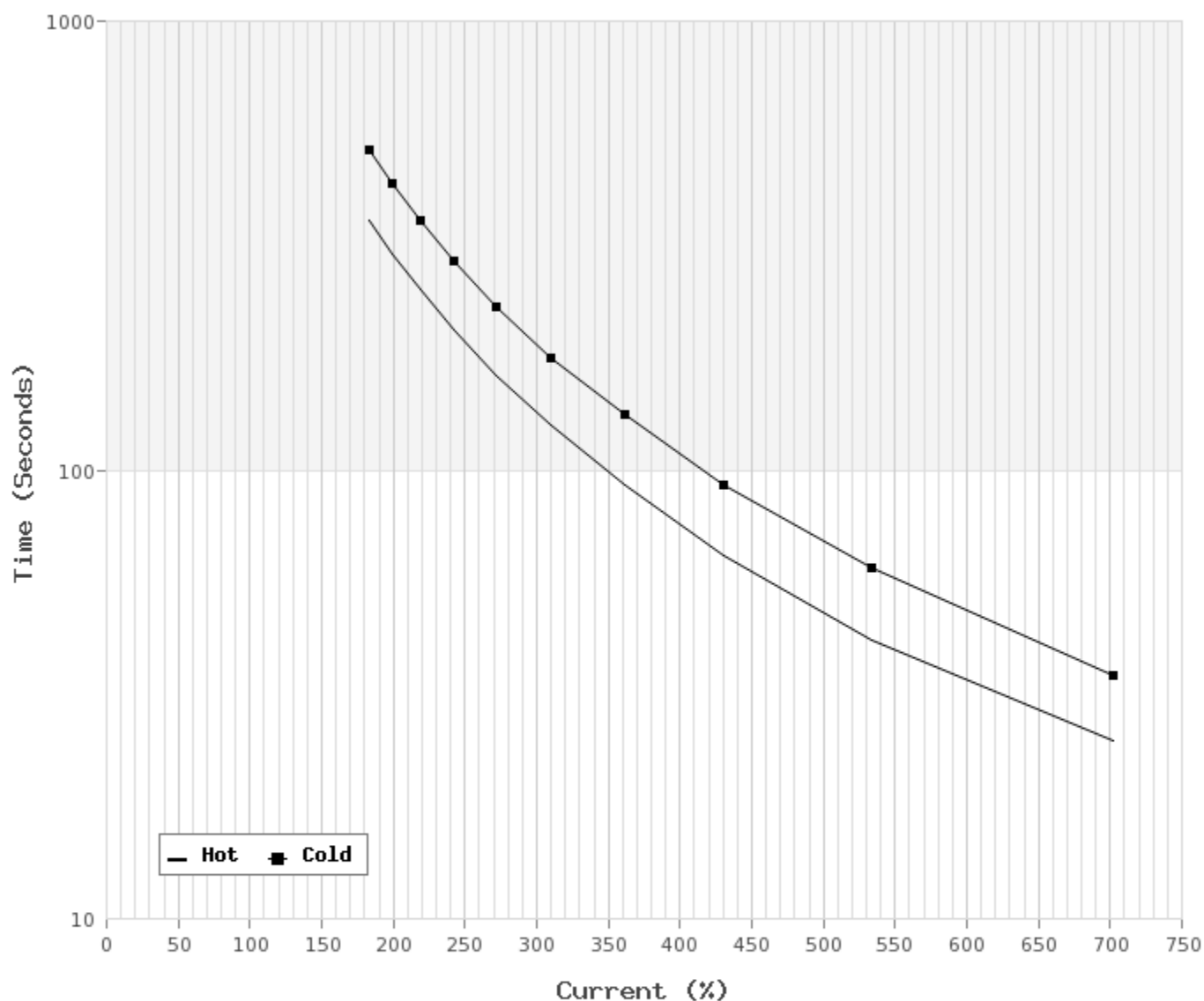


9 LEAD DUAL VOLTAGE WYE					
VOLTAGE	CONN.	L1	L2	L3	JOIN
HIGH	WYE	1	2	3	4&7,5&8,6&9
LOW	2 WYE	1,7	2,8	3,9	4&5&6

WD_9Y

Thermal Limit Curves

Motor Type: AEGH		Catalogue No: RF0054C		Family: Rolled Steel TEFC	
HP	5	Safe Stall Time		Full Load A	13.1 / 6.5 A
Voltage	230 / 460V 60Hz	Hot	21 s	Locked Rotor A	703 / 703 %
RPM	1800	Cold	30 s	Locked Rotor A	92.0 / 46 A



T-N and I-N Curves

Motor Type: AEGH		Catalogue No: RF0054C		Family: Rolled Steel TEFC	
HP	5	Full Load T	15.09 lb-ft	Full Load A	13.1 / 6.5 A
Voltage	230 / 460V 60Hz	Locked Rotor T	215 %	Locked Rotor A	92.0 / 46.0 A
RPM	1800	Pull Up T	210 %	Break Down T	300 %

