

Technical Documentation

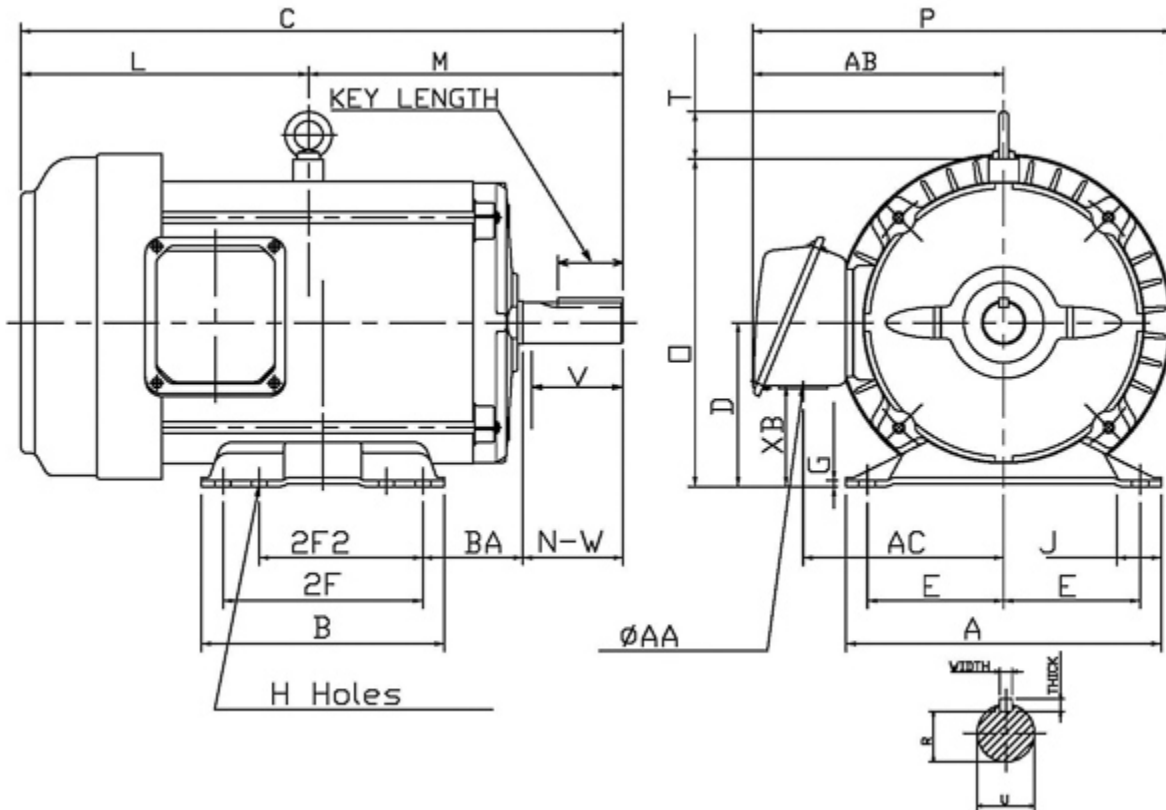
# **RF1/56**

## **Rolled Steel TEFC | AEGH**

Date: December 1, 2016

### Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
RF1/56	AEGH	1.5	6	1.12	Continuous	230 / 460 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
0.16	1.22		7.91	8.64	8.99	9.25	1.31	Width	Thick	Length	R
								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: RF1/56

#### Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
1.5	6	1170	182T	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.					
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	2.2 / 1.1	5.8 / 2.9	40 / 20
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	
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	
Temp Code (Sinewave / VFD)	/

**Connection Diagram**

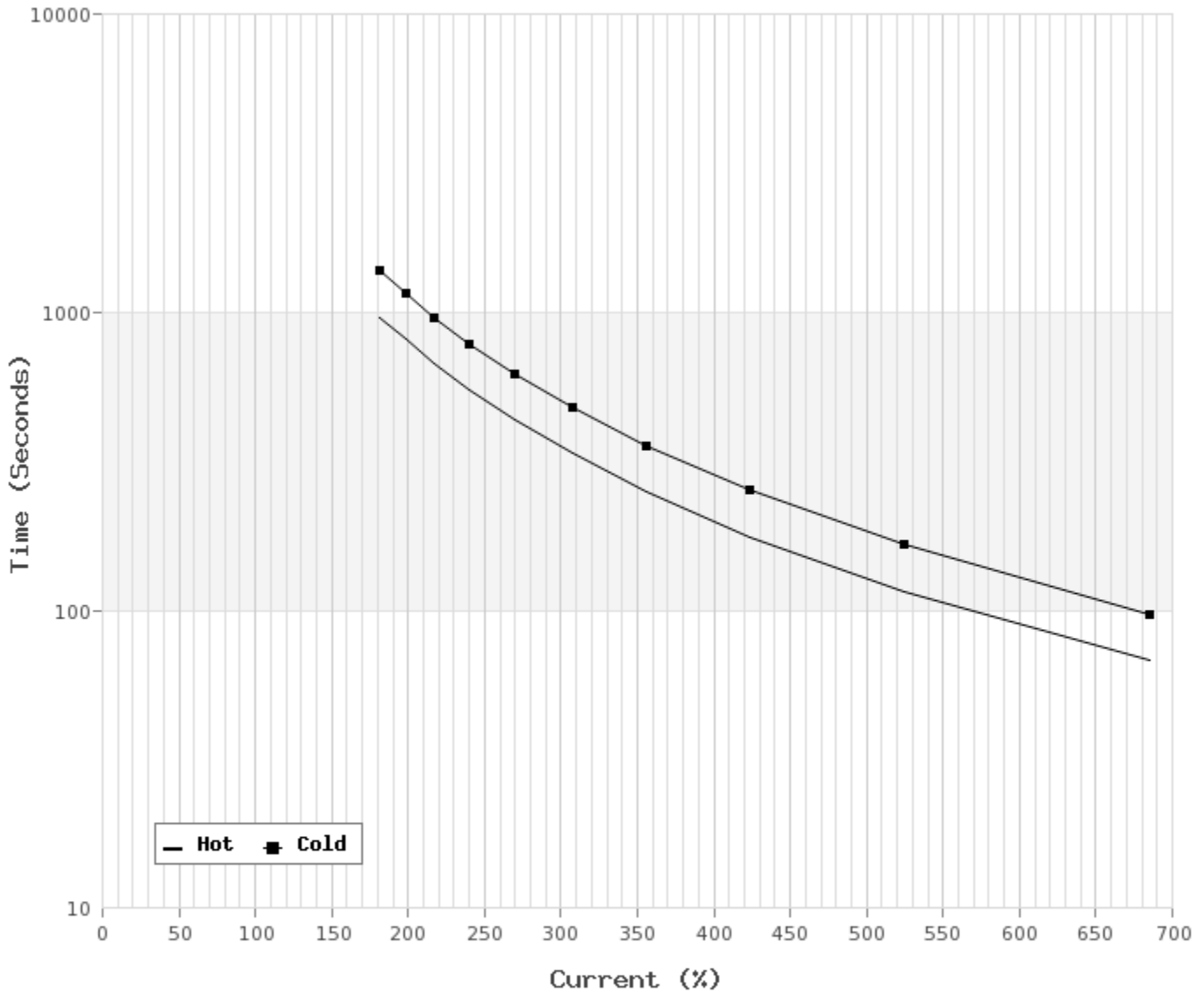


9 LEAD DUAL VOLTAGE WYE					
VOLTAGE	CONN.	L1	L2	L3	JOIN
HIGH	WYE	1	2	3	4&7,5&8,6&9
LOW	2 WYE	1,7	2,8	3,9	4&5&6

WD\_9Y

**Thermal Limit Curves**

Motor Type: AEGH		Catalogue No: RF1/56		Family: Rolled Steel TEFC	
HP	1.5	Safe Stall Time		Full Load A	5.8 / 2.9 A
Voltage	230 / 460V 60Hz	Hot	66 s	Locked Rotor A	685 / 685 %
RPM	1200	Cold	94 s	Locked Rotor A	40.0 / 20 A



**T-N and I-N Curves**

Motor Type: AEGH		Catalogue No: RF1/56		Family: Rolled Steel TEFC	
HP	1.5	Full Load T	6.73 lb-ft	Full Load A	5.8 / 2.9 A
Voltage	230 / 460V 60Hz	Locked Rotor T	200 %	Locked Rotor A	40.0 / 20.0 A
RPM	1200	Pull Up T	190 %	Break Down T	340 %

