

Technical Documentation

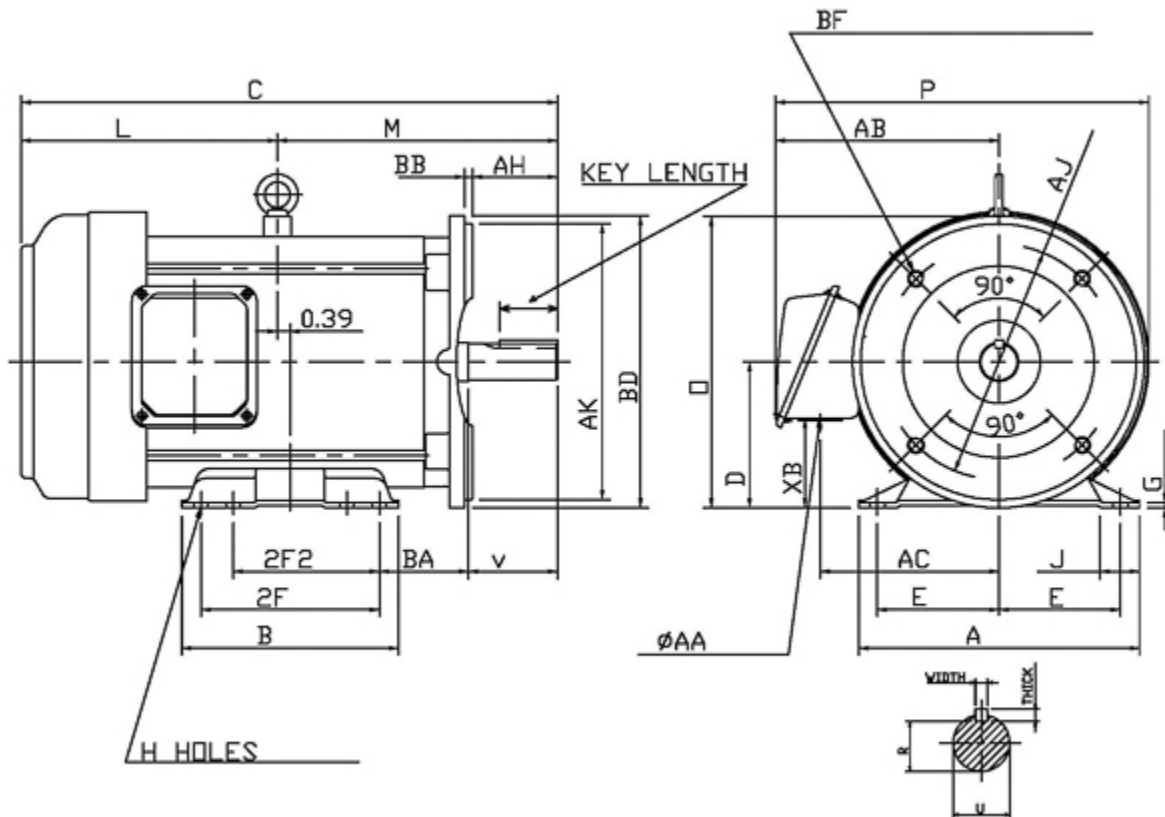
RF7/525C

Rolled Steel TEFC | AEGH

Date: July 10, 2017

Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
RF7/525C	AEGH	7.5	2	5.6	Continuous	575 V	60	3600



Frame Size		Mounting					A	B	C	CD	D
		E	2F	2F2	H	BA					
213TC		4.25	7	5.5	0.41	3.5	9.69	8.18	20.5		5.25
G	J	K	L	M	O	P	T	Key			Keyseat
								Width	Thick	Length	R
0.18	1.22		9.67	10.83	10.53	10.74	1.63	0.312	0.312	2.41	1.201
Terminal Housing				Aux Box		C/D Flange					
AA	AB	AC	XB	AE	AX	BB	AH	AK	BD	AJ	BF
1.38	8.16	6.38	2.81			0.25	3.12	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							
3.38	1.375	3.3	6208ZZ	6206ZZ	123	70	F	1.15	Direct Coupling / Belt Drive	Inches	

Technical Data Sheet

Motor Type: AEGH

Catalogue No: RF7/525C

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
7.5	2	3530	213TC	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 °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.					
90.2	88.5	90.0	89.0	84.5	79.0	69.5
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
11.22	240	230	305	1.3	7.4	51
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	
H	0.372	8.3	21	17	12	70

VFD Duty Information

Speed Range			VFD		S.F.
Constant Torque	Variable Torque	Constant Power	Carrier	Type	
6-60Hz	3-60Hz	60-90Hz	≤ 5 kHz	VPWM or CPWM	1.0 Only

Additional Information

Bearings		Approx. Weight
DE	NDE	lbs
6208ZZ	6206ZZ	123

Hazardous Locations Information

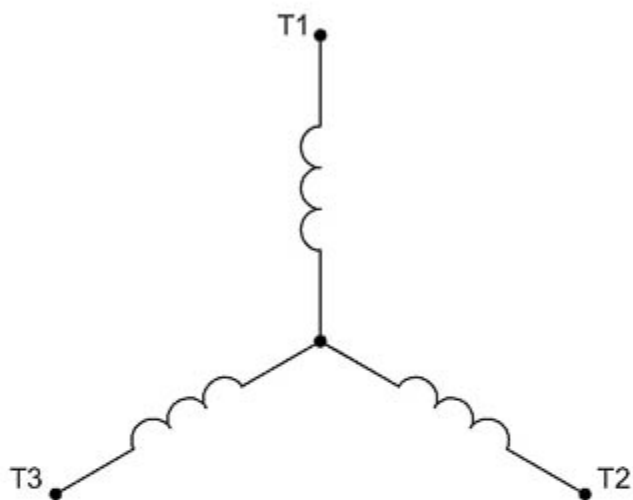
N/A	
0	
0	
Temp Code (Sinewave / VFD)	0 / 0

Nameplate Drawing

Rolled Steel TEFC

TYPE	AEGH		CAT. NO.	RF7/525C		
OUTPUT	7.5 HP 5.6 kW		FRAME	213TC	TEFC	
R.P.M.	3530		POLE	2	INS.	F
VOLTS	575		PHASE	3	Hz	60
AMPS	7.4		CODE	H	S.F.	1.15
AMBIENT	40 °C		NOM. EFF. 90.2		MIN. EFF. 88.5	
BEARINGS	6208ZZ / 6206ZZ				RATING Cont.	
SER. NO.	TBD			DESIGN	B	WT. 123 LBS
PWM VFD DUTY	VT	CT		CP		S.F.
	3-60Hz	6-60Hz		60-90Hz		1.0 Only

Connection Diagram

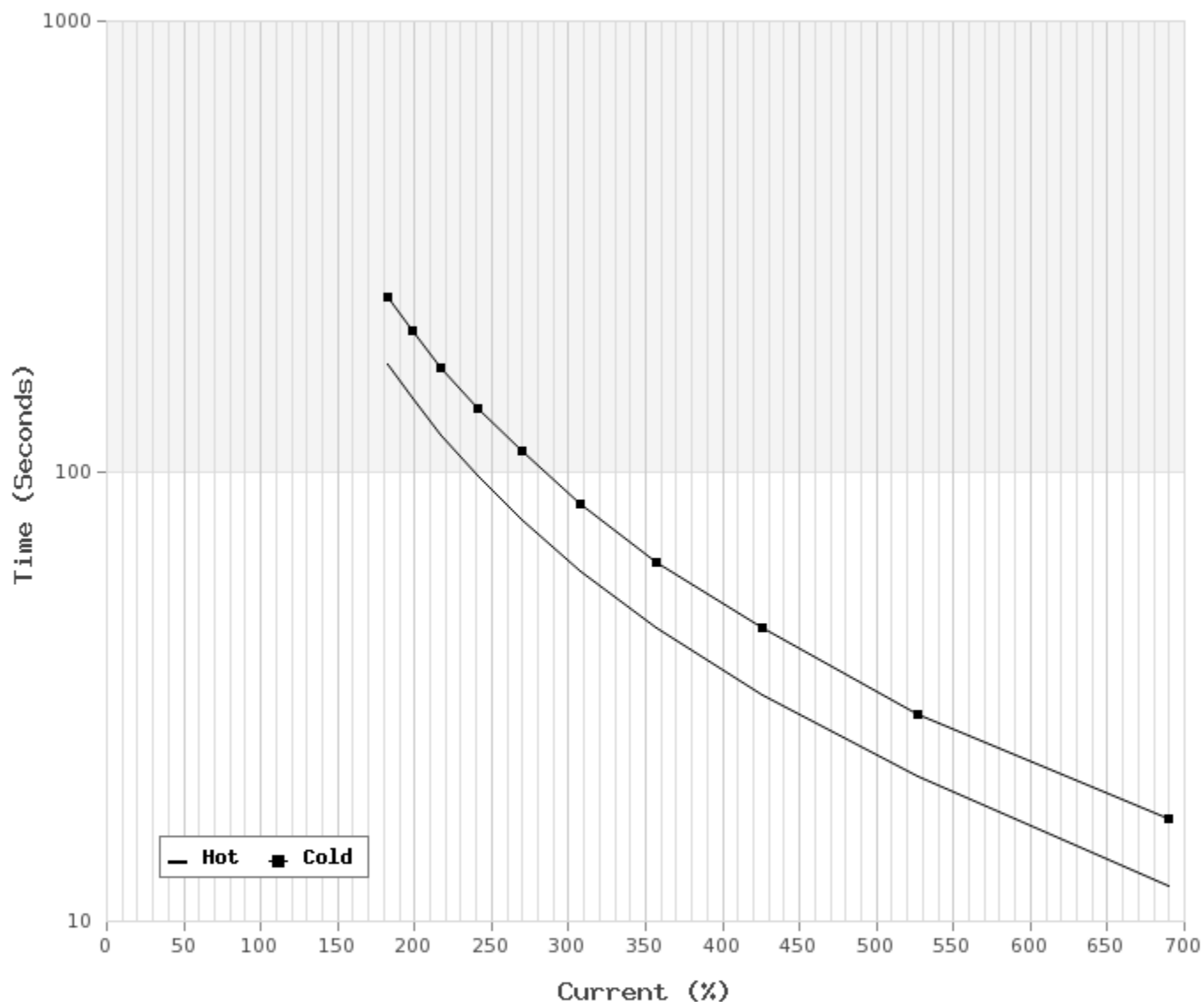


3 LEAD		SINGLE VOLTAGE			WYE
VOLTAGE	CONN.	L1	L2	L3	
-	WYE	1	2	3	

WD_3Y

Thermal Limit Curves

Motor Type: AEGH		Catalogue No: RF7/525C		Family: Rolled Steel TEFC	
HP	7.5	Safe Stall Time		Full Load A	0.0 / 7.4 A
Voltage	0 / 575V 60Hz	Hot	12 s	Locked Rotor A	692 %
RPM	3600	Cold	17 s	Locked Rotor A	0.0 / 51 A



T-N and I-N Curves

Motor Type: AEGH		Catalogue No: RF7/525C		Family: Rolled Steel TEFC	
HP	7.5	Full Load T	11.22 lb-ft	Full Load A	7.4 A
Voltage	575V 60Hz	Locked Rotor T	240 %	Locked Rotor A	51.0 A
RPM	3600	Pull Up T	230 %	Break Down T	305 %

