

Technical Documentation

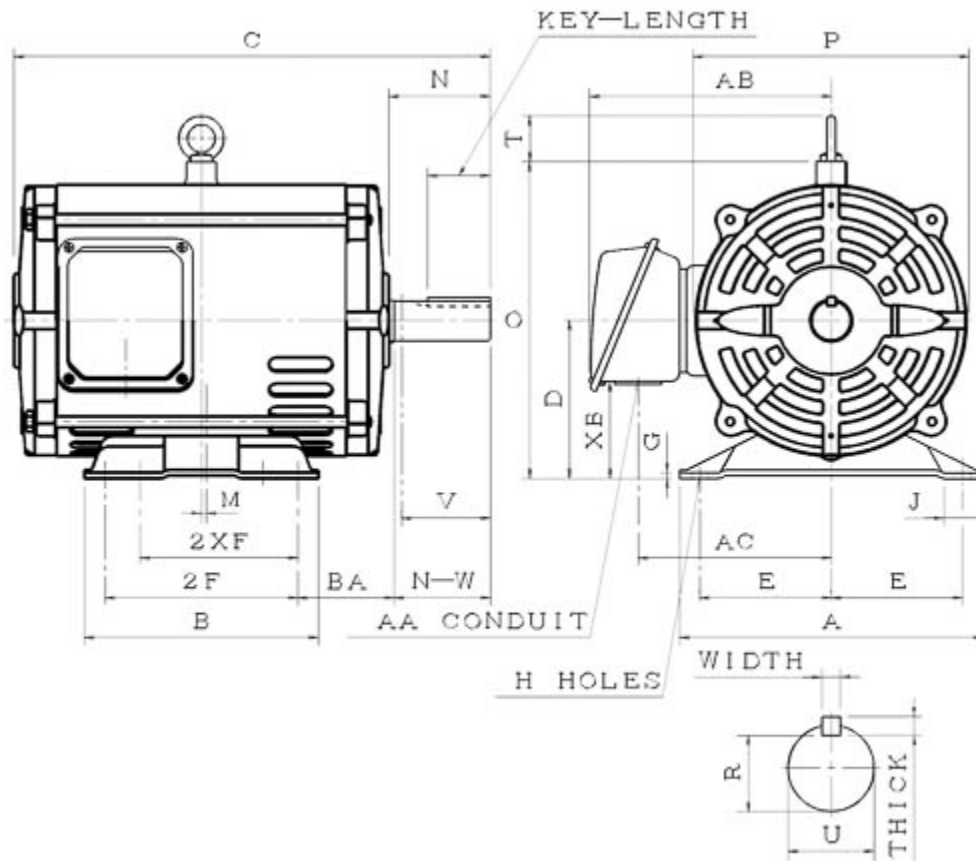
RD0054

Rolled Steel ODP | ASGH

Date: December 1, 2016

Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
RD0054	ASGH	5	4	3.7	Continuous	230 / 460 V	60	1800



ASGH-SMP-4

Frame Size		Mounting					A	B	C	CD	D
		E	2F	2F2	H	BA					
184T		7.5	5.5		0.41	2.75	8.66	6.68	14.39		4.5
G	J	K	L	M	O	P	T	Key			Keyseat
								Width	Thick	Length	R
0.16	1.22			0.394	8.99	7.73	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	6206ZZC3	6205ZZC3	77	57	F	1.15	Direct Coupling / Belt Drive	Inches	

Technical Data Sheet

Motor Type: ASGH

Catalogue No: RD0054

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
5	4	1750	184T	230 / 460	60	3
Enclosure	Ins. Class	Service Factor	Time Rating	NEMA Design	Rated Amb.	Rated Altitude
ODP	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	77.0	67.5	54.0
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
15.00	205	170	290	7.6 / 3.8	13.6 / 6.8	92 / 15
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	0.398	27	70	30	21	57

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

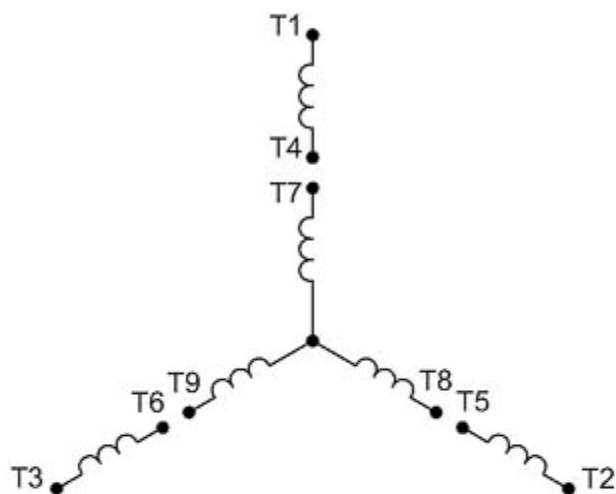
Additional Information

Bearings		Approx. Weight
DE	NDE	lbs
6206ZZC3	6205ZZC3	77

Hazardous Locations Information

N/A	
Temp Code (Sinewave / VFD)	
/	

Connection Diagram

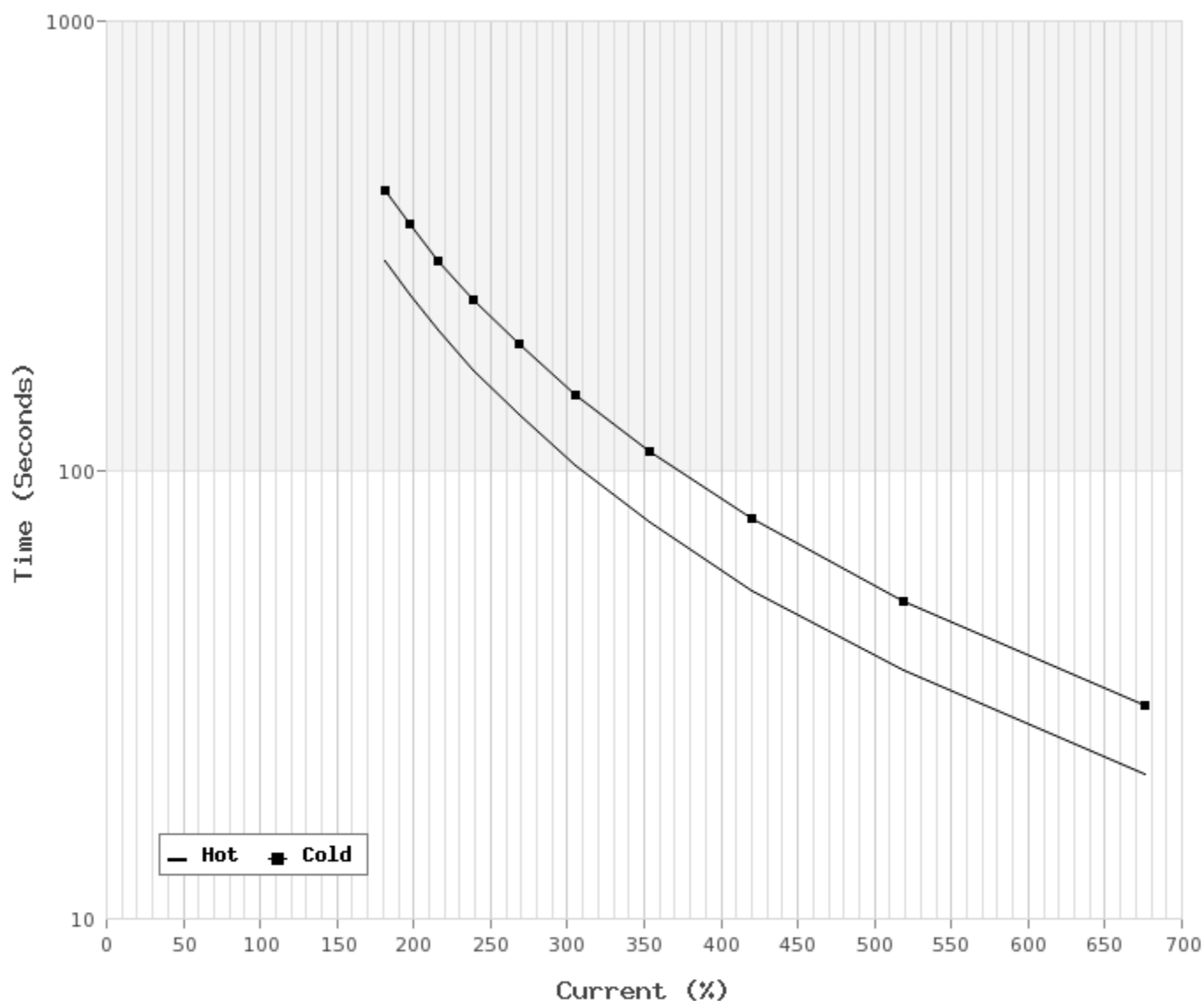


9 LEAD DUAL VOLTAGE WYE					
VOLTAGE	CONN.	L1	L2	L3	JOIN
HIGH	WYE	1	2	3	4&7,5&8,6&9
LOW	2 WYE	1,7	2,8	3,9	4&5&6

WD_9Y

Thermal Limit Curves

Motor Type: ASGH		Catalogue No: RD0054		Family: Rolled Steel ODP	
HP	5	Safe Stall Time		Full Load A	13.6 / 6.8 A
Voltage	230 / 460V 60Hz	Hot	21 s	Locked Rotor A	677 / 221 %
RPM	1800	Cold	30 s	Locked Rotor A	92.0 / 15 A



T-N and I-N Curves

Motor Type: ASGH		Catalogue No: RD0054		Family: Rolled Steel ODP	
HP	5	Full Load T	15.00 lb-ft	Full Load A	13.6 / 6.8 A
Voltage	230 / 460V 60Hz	Locked Rotor T	205 %	Locked Rotor A	92.0 / 15.0 A
RPM	1800	Pull Up T	170 %	Break Down T	290 %

