

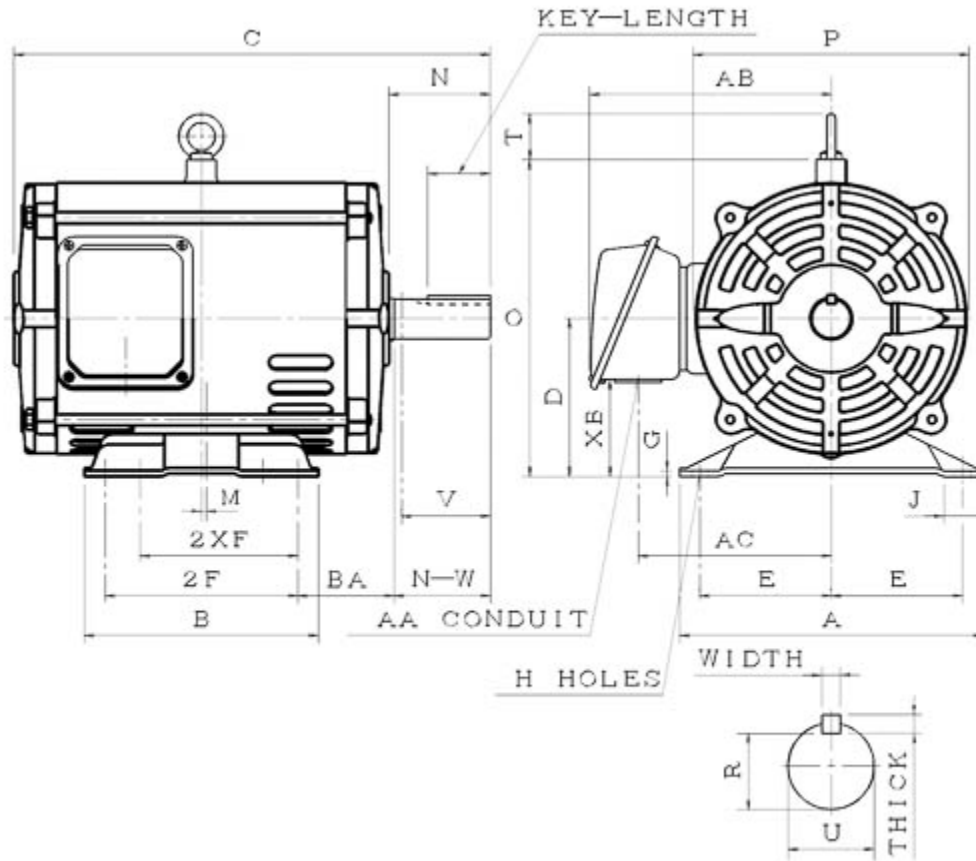
Technical Documentation

**RD7/52**  
**Rolled Steel ODP | ASGH**

Date: December 1, 2016

**Dimensional Drawing**

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
RD7/52	ASGH	7.5	2	5.6	Continuous	230 / 460 V	60	3600



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
0.16	1.22			0.394	8.99	7.73	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	6206ZZC3	6205ZZC3	77	59	F	1.15	Direct Coupling / Belt Drive	Inches	

### Technical Data Sheet

Motor Type: ASGH

Catalogue No: RD7/52

#### Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
7.5	2	3460	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.					
88.5	86.5	89.0	88.5	90.0	86.5	78.5
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
11.38	295	245	315	5.0 / 2.5	17.6 / 8.8	127 / 15
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	
H	0.247	8.3	12	17	12	59

#### 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**

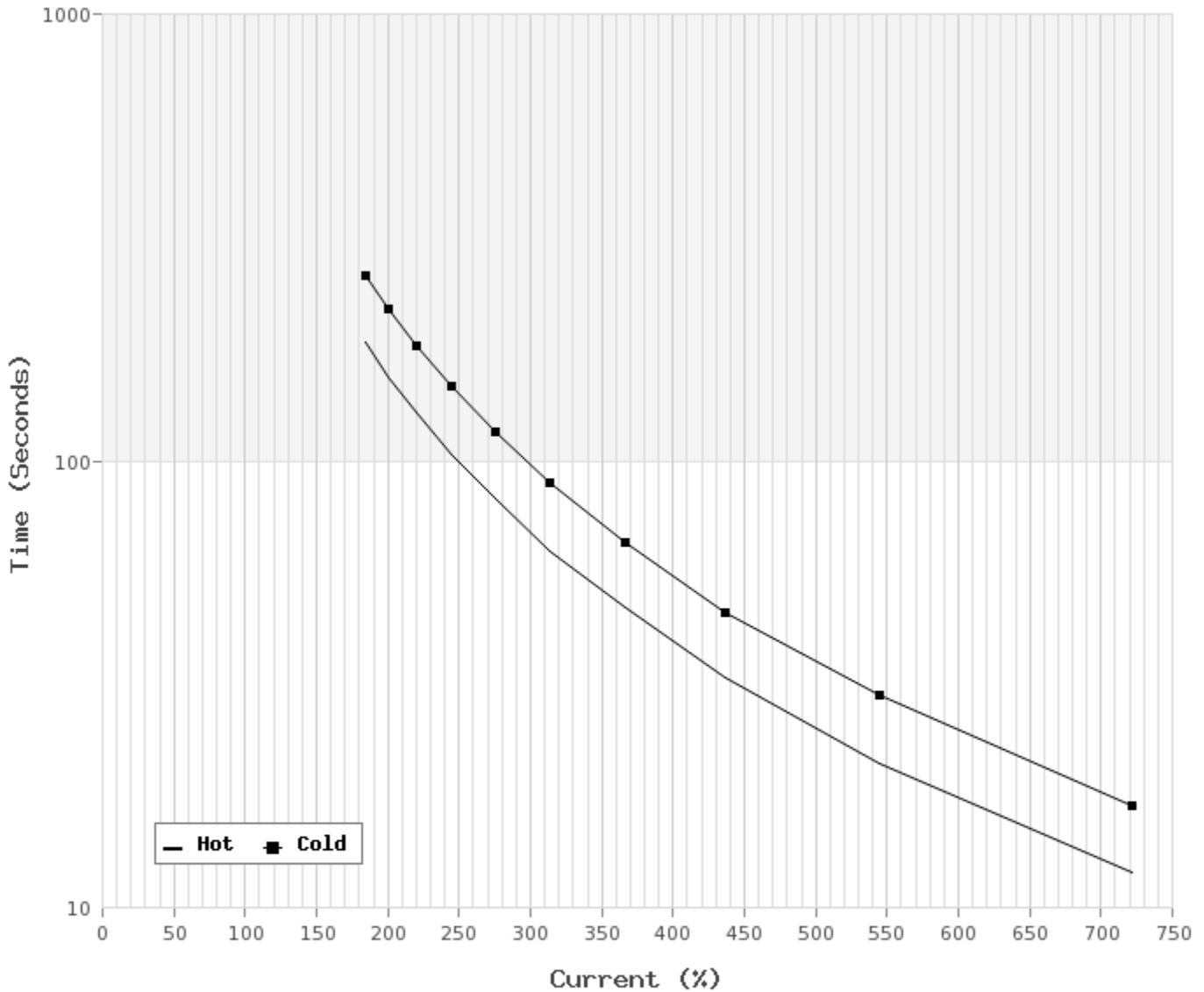


12 LEAD DUAL VOLTAGE WYE/DELTA						
VOLTAGE	CONNECTION		L1	L2	L3	JOIN
HIGH	START	WYE	1	2	3	4&7,5&8,6&9 10&11&12
	RUN	DELTA	1,12	2,10	3,11	4&7,5&8,6&9
LOW	START	2 WYE	1,7	2,8	3,9	4&5&6 10&11&12
	RUN	2 DELTA	1,6,7 12	2,4,8 10	3,5,9 11	

WD\_12YD

**Thermal Limit Curves**

Motor Type: ASGH		Catalogue No: RD7/52		Family: Rolled Steel ODP	
HP	7.5	Safe Stall Time		Full Load A	17.6 / 8.8 A
Voltage	230 / 460V 60Hz	Hot	12 s	Locked Rotor A	720 / 170 %
RPM	3600	Cold	17 s	Locked Rotor A	127.0 / 15 A



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

Motor Type: ASGH		Catalogue No: RD7/52		Family: Rolled Steel ODP	
HP	7.5	Full Load T	11.38 lb-ft	Full Load A	17.6 / 8.8 A
Voltage	230 / 460V 60Hz	Locked Rotor T	295 %	Locked Rotor A	127.0 / 15.0 A
RPM	3600	Pull Up T	245 %	Break Down T	315 %

