

Technical Documentation

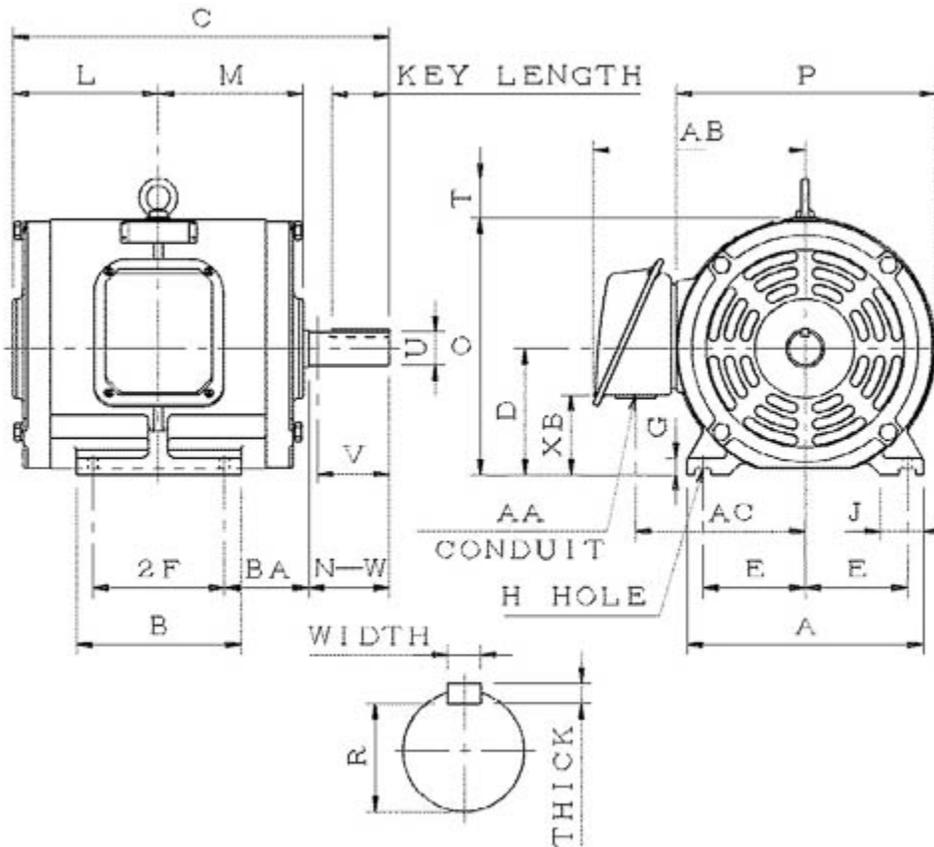
SDP0104

Optim ODP | ASHH

Date: December 1, 2016

Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
SDP0104	ASHH	10	4	7.5	Continuous	230 / 460 V	60	1800



ASHH-SMP-2

Frame Size	Mounting					A	B	C	CD	D	
	E	2F	2F2	H	BA						
215T	4.25	7		0.41	3.5	9.85	8.35	17.18		5.25	
G	J	K	L	M	O	P	T	Key			Keyseat
0.7	1.75		6.8	6.8	10.7	10.75	1.65	Width	Thick	Length	R
								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	8.8	7.1	3.35								
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	6308ZZ	6306ZZ	185	58	F	1.15	Direct Coupling / Belt Drive	Inches	

Technical Data Sheet

Motor Type: ASHH

Catalogue No: SDP0104

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
10	4	1750	215T	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.					
91.7	90.2	92.4	92.4	87.0	84.0	76.5
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
30.00	230	175	265	7.5 / 3.8	23.5 / 11.7	162 / 81
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	0.924	51	95	17	12	58

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

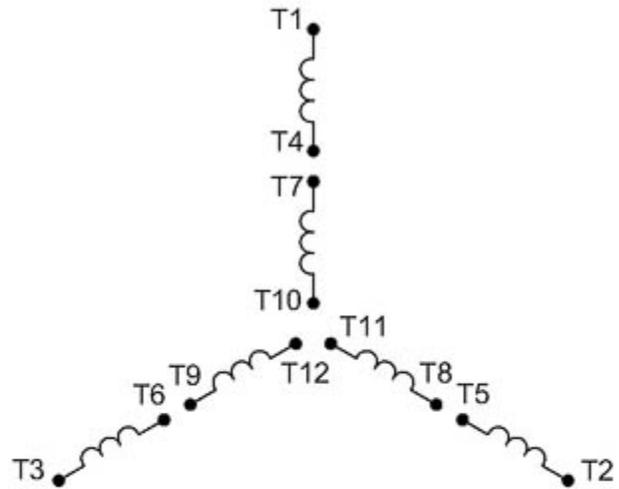
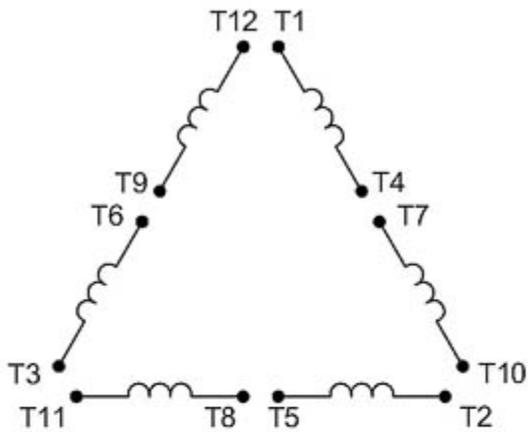
Additional Information

Bearings		Approx. Weight
DE	NDE	lbs
6308ZZ	6306ZZ	185

Hazardous Locations Information

N/A	
Temp Code (Sinewave / VFD)	/

Connection Diagram

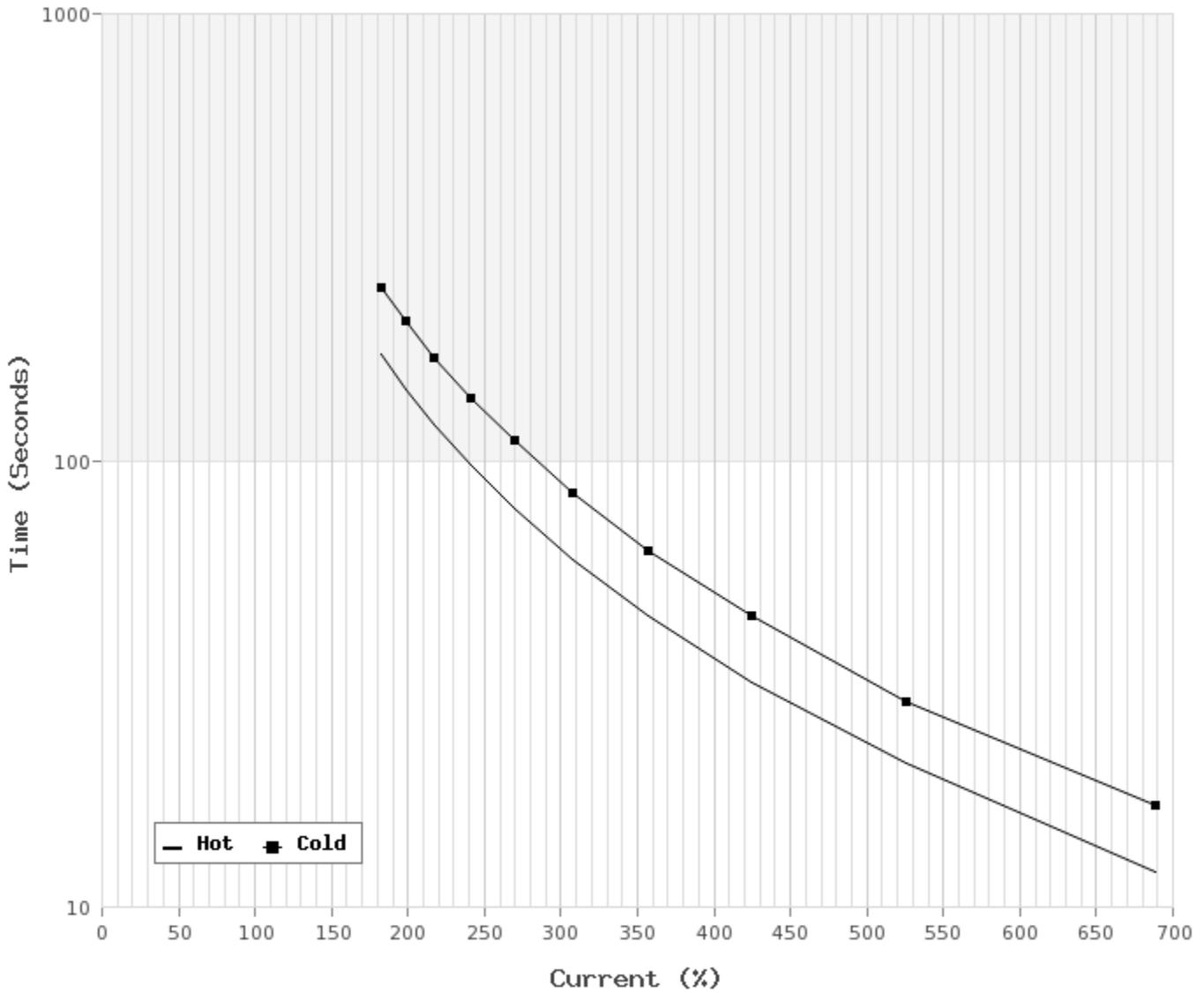


12 LEAD DUAL VOLTAGE WYE/DELTA						
VOLTAGE	CONNECTION		L1	L2	L3	JOIN
HIGH	START	WYE	1	2	3	4&7,5&8,6&9 10&11&12
	RUN	DELTA	1,12	2,10	3,11	4&7,5&8,6&9
LOW	START	2 WYE	1,7	2,8	3,9	4&5&6 10&11&12
	RUN	2 DELTA	1,6,7 12	2,4,8 10	3,5,9 11	

WD_12YD

Thermal Limit Curves

Motor Type: ASHH		Catalogue No: SDP0104		Family: Optim ODP	
HP	10	Safe Stall Time		Full Load A	23.5 / 11.7 A
Voltage	230 / 460V 60Hz	Hot	12 s	Locked Rotor A	690 / 690 %
RPM	1800	Cold	17 s	Locked Rotor A	162.0 / 81 A



T-N and I-N Curves

Motor Type: ASHH		Catalogue No: SDP0104		Family: Optim ODP	
HP	10	Full Load T	30.00 lb-ft	Full Load A	23.5 / 11.7 A
Voltage	230 / 460V 60Hz	Locked Rotor T	230 %	Locked Rotor A	162.0 / 81.0 A
RPM	1800	Pull Up T	175 %	Break Down T	265 %

