

Technical Documentation

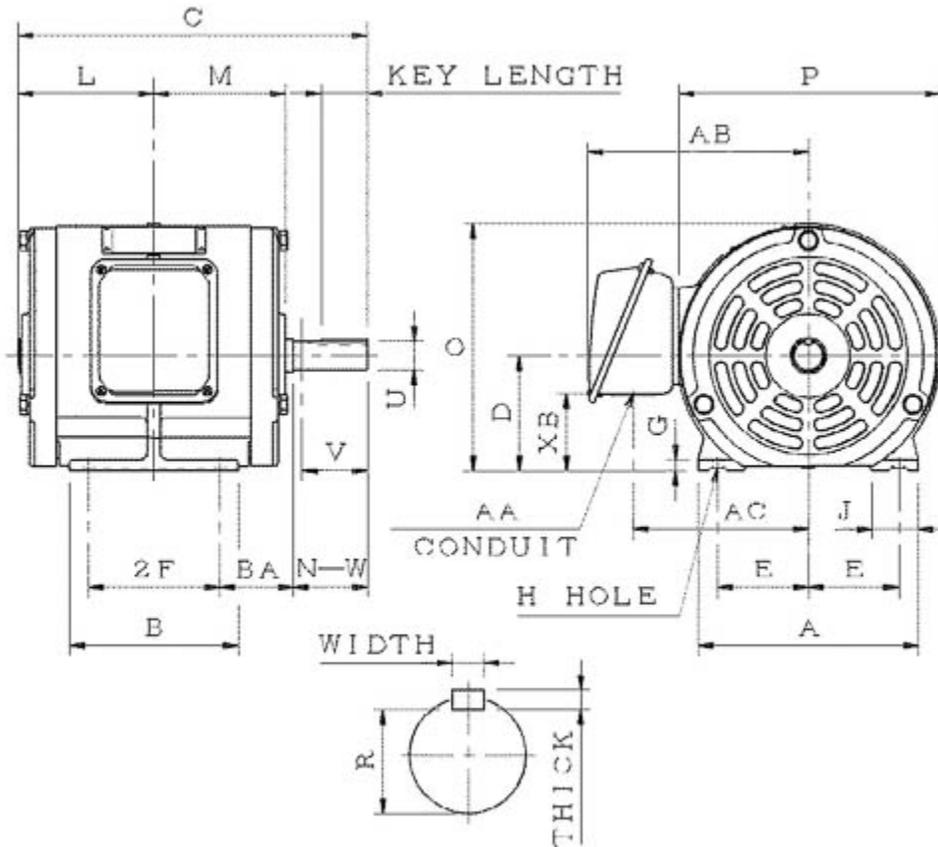
# **SDP00145**

## **Optim ODP | ASHH**

Date: July 10, 2017

**Dimensional Drawing**

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
SDP00145	ASHH	1	4	0.746	Continuous	575 V	60	1800



ASHH-SMP-1

Frame Size	Mounting					A	B	C	CD	D	
	E	2F	2F2	H	BA						
143T	2.75	4		0.34	2.25	6.7	5.1	10.65		3.5	
G	J	K	L	M	O	P	T	Key			Keyseat
0.35	1.4		4.15	4	7.5	7.87		Width	Thick	Length	R
								0.188	0.188	1.41	0.711
Terminal Housing				Aux Box		C/D Flange					
AA	AB	AC	XB	AE	AX	BB	AH	AK	BD	AJ	BF
1.1	6.7	5.3	2.3								
Shaft Extension			Bearings		Approx. Weight Lbs	SPL dBA/3ft	Ins. Class	S.F.	Drive Method	Dimensions	
N-W	U	V	DE	NDE							
2.25	0.875	2.2	6205ZZ	6205ZZ	53	48	F	1.15	Direct Coupling / Belt Drive	Inches	

### Technical Data Sheet

Motor Type: ASHH

Catalogue No: SDP00145

#### Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
1	4	1750	143T	575	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 °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.					
85.5	82.5	85.5	84.0	78.0	70.0	56.5
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
3.00	275	190	300	0.6	1.1	12
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	
N	0.086	5.8	39	55	39	48

#### 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
6205ZZ	6205ZZ	53

#### Hazardous Locations Information

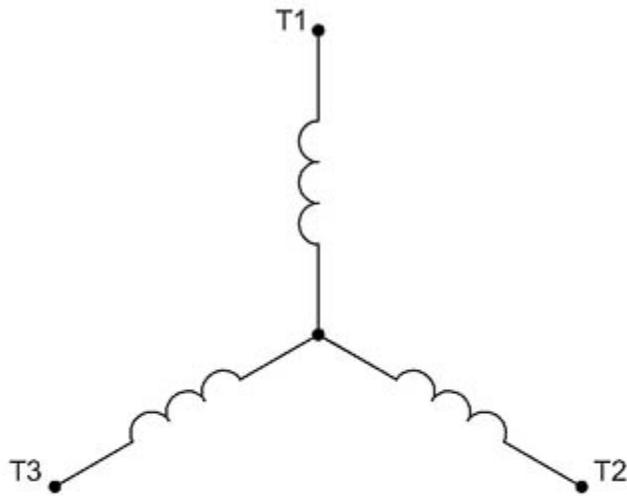
N/A	
0	
0	
Temp Code (Sinewave / VFD)	0 / 0

**Nameplate Drawing**

# Optim ODP

TYPE	ASHH	CAT. NO.	SDP00145		
OUTPUT	1 HP 0.746 kW	FRAME	143T	ODP	
R.P.M.	1750	POLE	4	INS.	F
VOLTS	575	PHASE	3	Hz	60
AMPS	1.1	CODE	N	S.F.	1.15
AMBIENT	40 °C	NOM. EFF. 85.5		MIN. EFF. 82.5	
BEARINGS	6205ZZ / 6205ZZ			RATING Cont.	
SER. NO.	TBD	DESIGN	B	WT. 53 LBS	
PWM VFD DUTY	VT	CT	CP	S.F.	
	3-60Hz	6-60Hz	60-120Hz	1.0 Only	

**Connection Diagram**

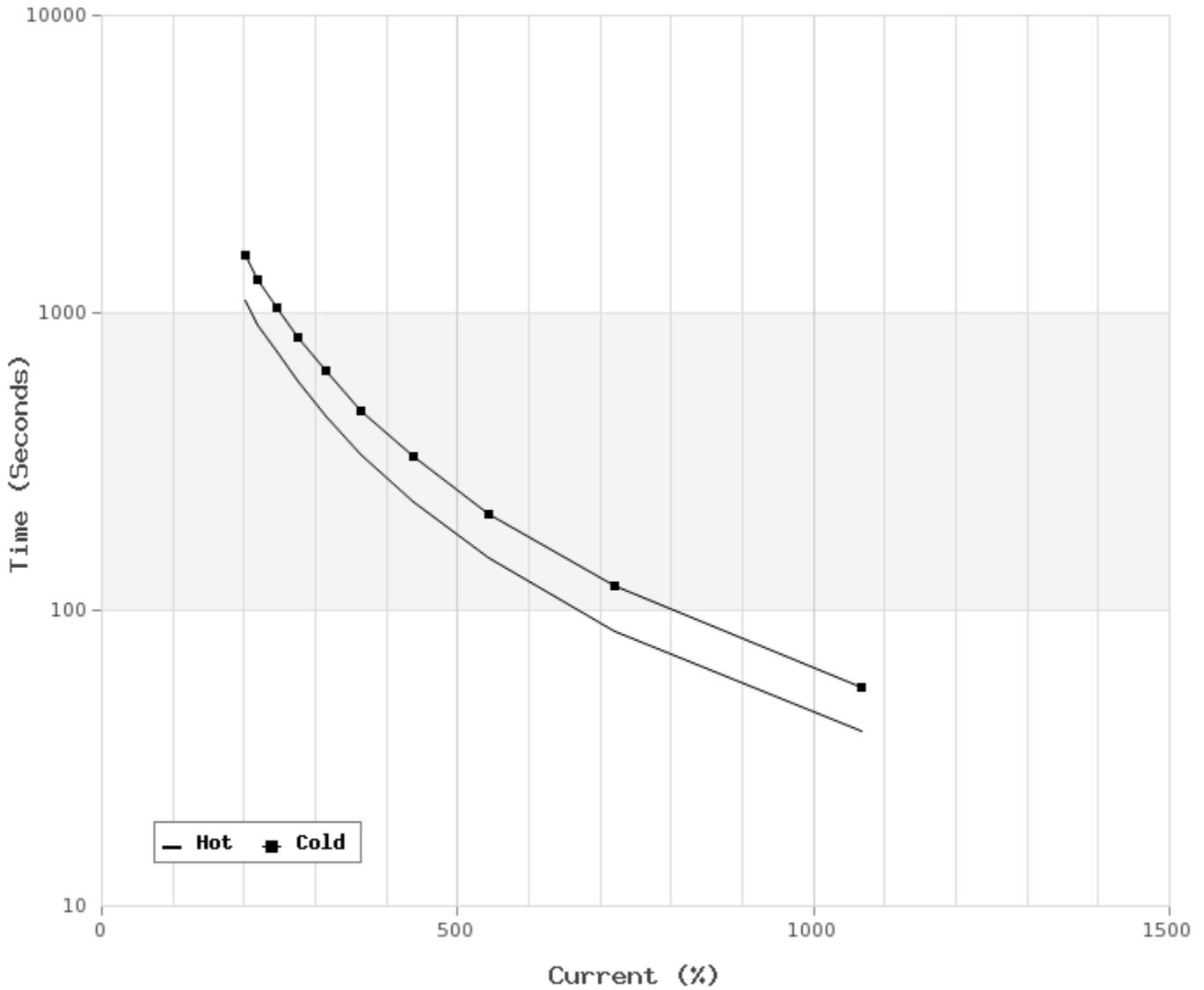


3 LEAD		SINGLE VOLTAGE			WYE
VOLTAGE	CONN.	L1	L2	L3	
-	WYE	1	2	3	

WD\_3Y

**Thermal Limit Curves**

Motor Type: ASHH		Catalogue No: SDP00145		Family: Optim ODP	
HP	1	Safe Stall Time		Full Load A	0.0 / 1.1 A
Voltage	0 / 575V 60Hz	Hot	39 s	Locked Rotor A	1,071 %
RPM	1800	Cold	55 s	Locked Rotor A	0.0 / 12 A



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

Motor Type: ASHH		Catalogue No: SDP00145		Family: Optim ODP	
HP	1	Full Load T	3.00 lb-ft	Full Load A	1.1 A
Voltage	575V 60Hz	Locked Rotor T	275 %	Locked Rotor A	12.0 A
RPM	1800	Pull Up T	190 %	Break Down T	300 %

