

Technical Documentation

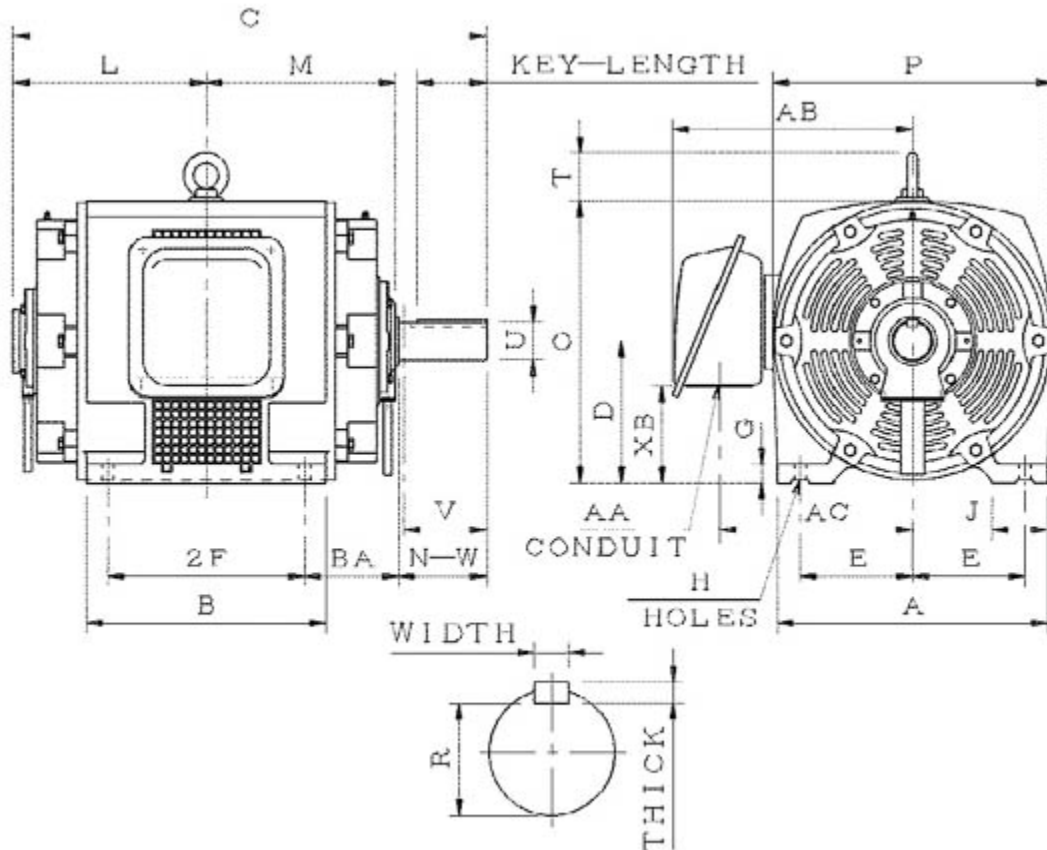
SDP04025

Optim ODP | ASHH

Date: December 1, 2016

Dimensional Drawing

Catalogue	Model	HP	Pole	kW	Rating	Voltage	Hz	RPM
SDP04025	ASHH	40	2	29.84	Continuous	575 V	60	3600



ASHH-SMP-4

Technical Data Sheet

Motor Type: ASHH

Catalogue No: SDP04025

Nameplate Information

HP	Pole	RPM	Frame	Voltage	Hz	Phase
40	2	3535	286TS	575	60	3
Enclosure	Ins. Class	Service Factor	Time Rating	NEMA Design	Rated Amb.	Rated Altitude
ODP	F	1.15	Continuous	C	-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.					
92.4	91.0	93.6	94.1	91.5	90.5	86.5
Torque				Current (A)		
Full Load (lb-ft)	Locked Rotor (% FLT)	Pull Up (% FLT)	Break Down (% FLT)	No Load	Full Load	Locked Rotor
59.41	210	170	250	6.7	35.4	232
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	
G	2.127	40	51	17	12	78

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

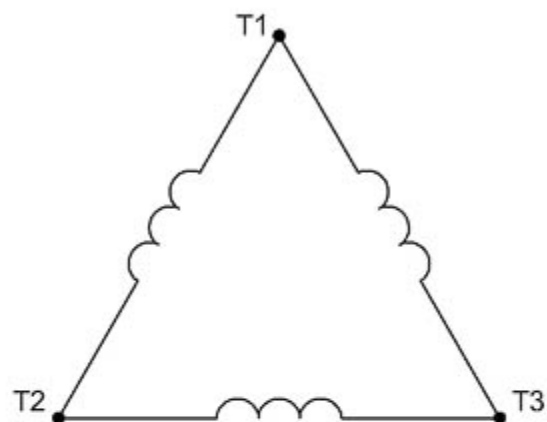
Additional Information

Bearings		Approx. Weight
DE	NDE	lbs
6212C3	6211C3	412

Hazardous Locations Information

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

Connection Diagram

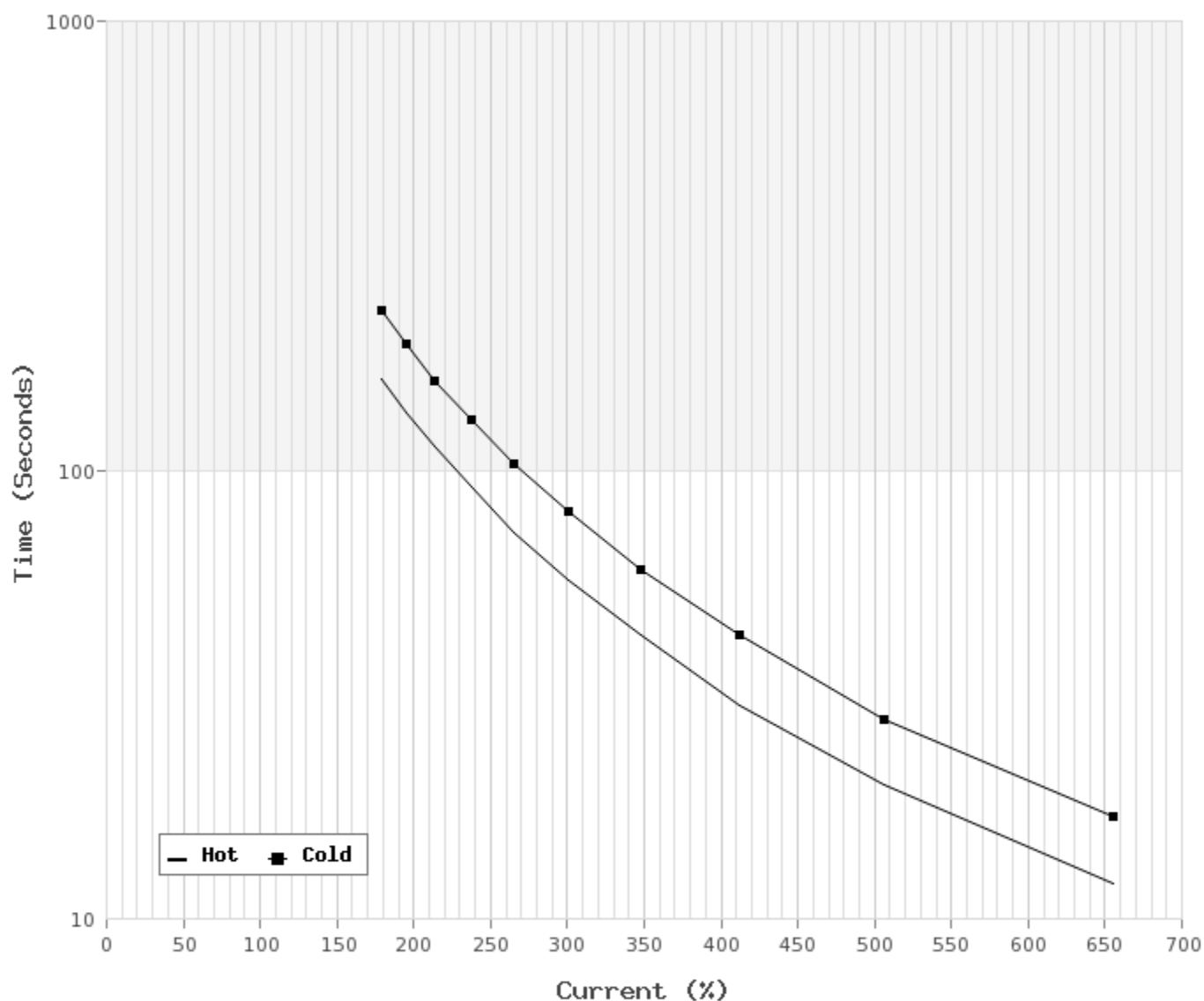


3 LEAD SINGLE VOLTAGE DELTA					
VOLTAGE	CONN.	L1	L2	L3	
-	DELTA	1	2	3	

WD_3D

Thermal Limit Curves

Motor Type: ASHH		Catalogue No: SDP04025		Family: Optim ODP	
HP	40	Safe Stall Time		Full Load A	0.0 / 35.4 A
Voltage	0 / 575V 60Hz	Hot	12 s	Locked Rotor A	655 %
RPM	3600	Cold	17 s	Locked Rotor A	0.0 / 232 A



T-N and I-N Curves

Motor Type: ASHH		Catalogue No: SDP04025		Family: Optim ODP	
HP	40	Full Load T	59.41 lb-ft	Full Load A	35.4 A
Voltage	575V 60Hz	Locked Rotor T	210 %	Locked Rotor A	232.0 A
RPM	3600	Pull Up T	170 %	Break Down T	250 %

