



3Ø STAR DELTA SUBMERCIBLE PUMP CONTROL UNIT



Without MCB & without SPP with O/L Relay, with Contactor, Ammeter & Volt meter (STANDARD MODEL)				
Motor Rating at 3Ø 415V AC, 50 Hz		Overload Relay Range	Contactor Rating	Item Code
kW	HP	In (A)	In (A)	
2.2	3	2.4-3.8	16	SDSM050C16L3.8A6
3.7	5	3.8-6	16	SDSM050C16L6.0A6
5.5/7.5	7.5/10	6-9.3	16	SDSM050C16L9.3A6
9.3/11	12.5/15	8.9-13.5	16	SDSM050C16L13.5A6
15	20	13.2-20	20	SDSM050C20L20A6
18.5	25	17.4-24	25	SDSM050C25L24A6
22/26	30/35	23-32	32	SDSM050C32L32A6



Without MCB, with SPP, with O/L Relay, with Contactor, Ammeter & Volt meter (ADVANCE MODEL)				
Motor Rating at 3Ø 415V AC, 50 Hz		Overload Relay Range	Contactor Rating	Item Code
kW	HP	In (A)	In (A)	
2.2	3	2.4-3.8	16	SDSM053C16L3.8A6
3.7	5	3.8-6	16	SDSM053C16L6.0A6
5.5/7.5	7.5/10	6-9.3	16	SDSM053C16L9.3A6
9.3/11	12.5/15	8.9-13.5	16	SDSM053C16L13.5A6
15	20	13.2-20	20	SDSM053C20L20A6
18.5	25	17.4-24	25	SDSM053C25L24A6
22/26	30/35	23-32	32	SDSM053C32L32A6



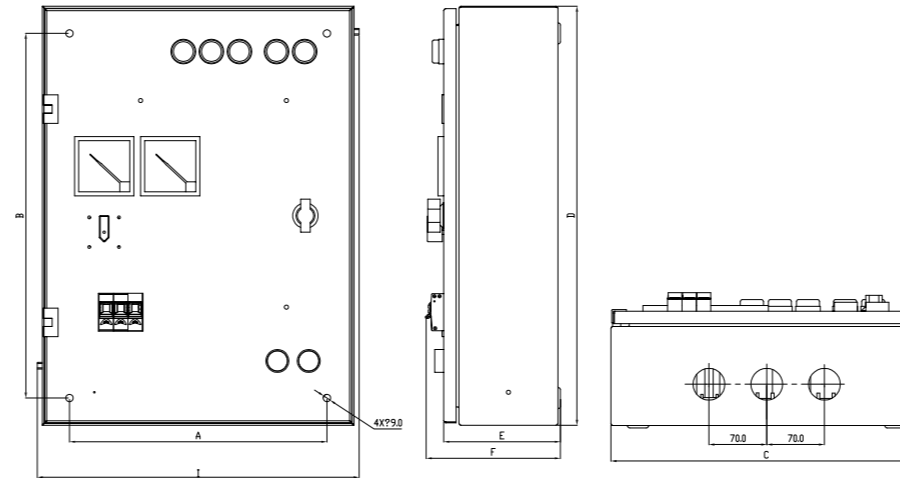
With MCB, with SPP, with O/L Relay, with Contactor, Ammeter & Volt meter (DELUXE MODEL)					
Motor Rating at 3Ø 415V AC, 50 Hz		Overload Relay Range	Contactor Rating	MCB Rating	Item Code
kW	HP	In (A)	In (A)	In (A)	
2.2	3	2.4-3.8	16	16	SDSM1653C16L3.8A6
3.7	5	3.8-6	16	25	SDSM2553C16L6.0A6
5.5/7.5	7.5/10	6-9.3	16	32	SDSM3253C16L9.3A6
9.3/11	12.5/15	8.9-13.5	16	40	SDSM4053C16L13.5A6
15	20	13.2-20	20	50	SDSM5053C20L20A6
18.5	25	17.4-24	25	63	SDSM6353C25L24A6
22/26	30/35	23-32	32	63	SDSM6353C32L32A6



Starters Accessories

Contactor 	Relay 	SD Timer 	Add on Block
Contactor Coil 	Power Terminals 	Voltmeter 	Ammeter
Auto Switch (SPP) 	Indicating light 	ON-OFF Push Button 	MCB

Overall Dimensions



Item Code	Model Name	A	B	C	D	E	F	G	H	I	J
S3PM050C16L3.8A6~S3PM050C32L32A6	Submersible DOL starter	260	290	300	330	124	147	70	70	-	-
S3PM053C12L3.8A6~S3PM053C32L32A6		260	290	300	330	124	147	70	70	-	-
S3PM653C16L3.8A6~S3PM4053C32L32A6		260	390	300	430	124	149	70	70	-	-
SDSM050C16L3.8A6~SDSM050C32L32A6	Submersible Star delta starter	312	342	378	408	141	161	70	70	-	-
SDSM053C16L3.8A6~SDSM053C32L32A6		312	342	378	408	141	161	70	70	-	-
SDSM1653C16L3.8A6~SDSM6353C32L32A6		312	442	378	508	141	163	70	70	-	-

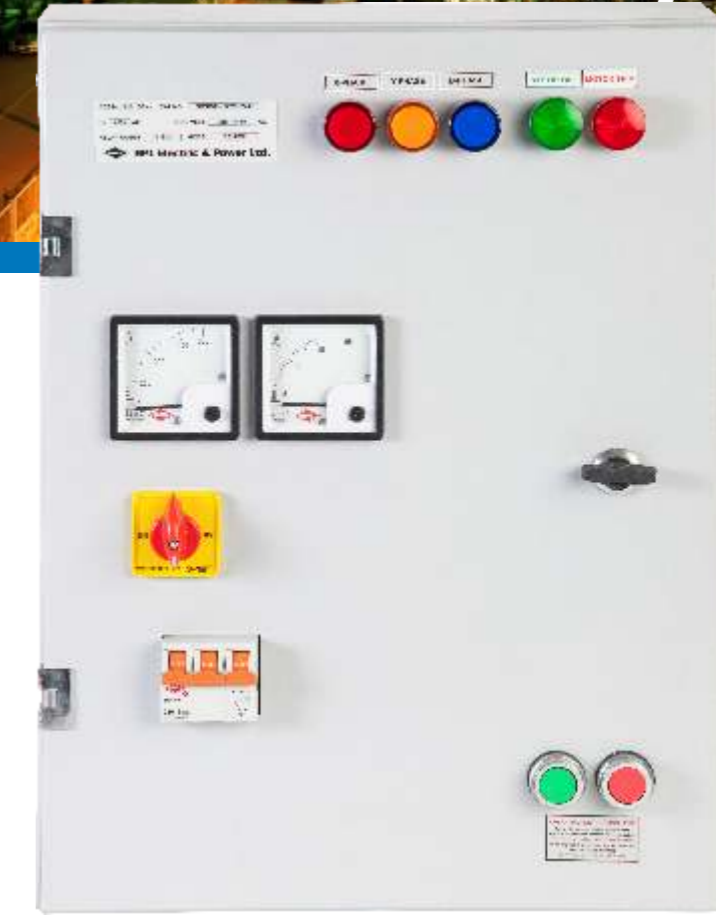
Note : For Dimension & other Details, Please Contact to Your Nearest Branch Office.

HPL/SOLDESPPS05-24



Submersible Pump Control Unit

• DOL SPCU • Star-Delta SPCU



For more information scan the QR code.



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HIMMAT Submersible Pump Control Unit DOL SPCU & Star-Delta SPCU

HPL offers complete range of aesthetically well designed and tested Series of Submersible Pump Control Unit (SPCU) Panels to cater prestigious existing customer of Infra, Industries, and Agriculture and as well for Domestic Motors & Pumps application. HPL Submersible Pump Control Unit, Range offers very unique, technically equipped with Silent features and comprehensive Protections on safety and reliability, which are manufactured at our Most Modern and State-of-the-art Unit in Kundli-Haryana (India)

SPCU comprise of Contactor, Overload Relay, Ammeter, Voltmeter, Auto Switch (SPP), Indicators, MCB(Optional) and Terminal Block, housed in powder coated sheet steel enclosure. There are two type of SPCU Panel

DOL Submersible Pump Control Unit (SPCU)

STAR DELTA Submersible Pump Control Unit (SPCU)

DOL SPCU is known as Direct on Line Starter, where Incoming 3 Phase wire directly come on Panel and Current passes through Suitable Contactor and Adjustable Thermal Overload Relay.

Star Delta SPCU is mainly use where rating is high in Various Motor application, where Incoming 3 Phase wire directly come on Panel and Current passes through Suitable Star, Delta & Main Contactor and Adjustable thermal Overload Relay upto the Motor Terminal, with manual Control by ON / OFF push buttons and Electronics timer in Star Delta Version.

There are 3 Variants in DOL and Star Delta SPCU

1. Standard Model
2. Advance Model
3. Deluxe Model

Deluxe Model have addition components :

- A. Auto Switch (SPP)
- B. Selector Switch for Voltage measurement
- C. MCB for Isolation and Short Circuit Protection.

Contactors

Contactor is provided with moulded coil for better weather resistance long life & Temper proof design. Robust, suitable for wide range of voltage & having very high electrical life. 1 Contactor in DOL and 3 Contactors of same rating used in Star Delta Starters.

Auto Switch (SPP)

SPCU have auto switch for protection against Single Phasing, Phase Reverse and Phase Unbalance with delay time. SPP can used on 3 modes Bypass / Auto / Manual mode as per motor applications.

Overload Relay

Protects the MOTOR against all Over Load including single phasing & locked rotor condition. It protects MOTOR under Single phasing condition even when the current in TWO healthy phases is 90% of minimum current setting. Relay is connected in phase circuit & is to be set 0.58 of MOTOR FLC.

Star Delta Timer

The Electronic Timer is used in Star Delta FASD model to automatically control the Star contactor change over to Delta Contactor in the circuit with adjustable time knob.

Salient Feature

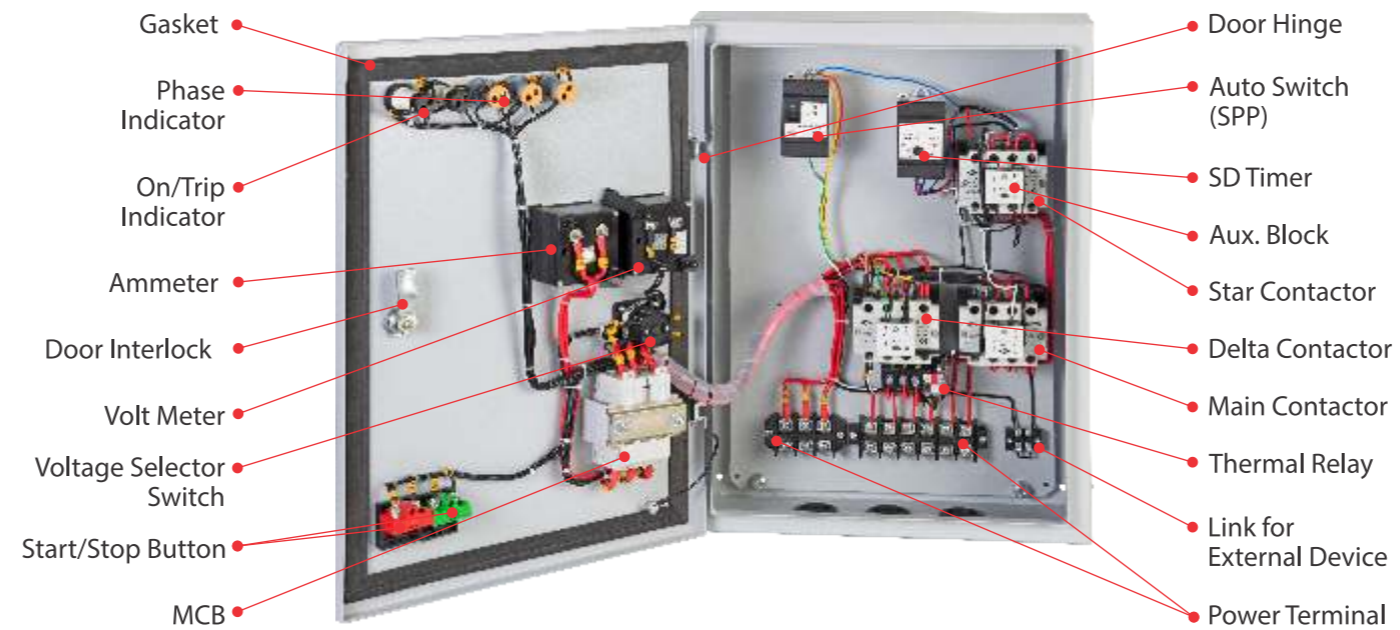
- This operates satisfactorily between 80%~110% of rated Voltage of coil.
- Complete isolation for Motor side terminal after switching OFF SPCU.
- It is provided with O/L Relay which has SPP in-built. It protects motor even if two healthy phase Carries current 90% of minimum current setting of the relay
- It is provided with an O/L Relay has Auto/Manual resetting at Field Selectable options.
- SPP having Single Phasing, Phase Unbalance & Phase Reverse protections with starting time delay of 45sec, with Auto / Manual / By-pass mode selection both in DOL and SD SPCU.
- One extra electrical interlock is provided to avoid resistant pickup of Star contactor in Star Delta scheme.
- SPCU consist one Mounting Plate, where all components are mounted and can be maintained outside separately.
- It is provided with Embossed 4 holes mounting facility, in Fabricated, Sheet Steel Enclosure.
- Power & Control Terminal have separate Incoming and out-going Terminal Block.
- Ammeter & Voltmeter is available in SPCU with Voltage Selector Switch option.



Internal View of DOL SPCU



Internal View of Star Delta SPCU



Technical Specification

3Ø DOL Submercible Pump Control Unit



WITHOUT MCB & WITHOUT SPP (STANDARD MODEL)			
HP at 415V, 50Hz	Overload Relay Range (A)	Contactor Rating (A)	CATALOGUE CODE
2	2.4- 3.8	16	S3PM050C16L3.8A6
3	3.8-6	16	S3PM050C16L6.0A6
5	6-9.3	16	S3PM050C16L9.3A6
7.5	8.9 -13.5	16	S3PM050C16L13.5A6
10	13.2- 20	20	S3PM050C20L20A6
15	17.4-24	25	S3PM050C25L24A6
20	23-32	32	S3PM050C32L32A6



WITHOUT MCB, WITH SPP (ADVANCE MODEL)			
HP at 415V, 50Hz	Overload Relay Range (A)	Contactor Rating (A)	CATALOGUE CODE
2	2.4- 3.8	16	S3PM053C12L3.8A6
3	3.8-6	16	S3PM053C12L6.0A6
5	6-9.3	16	S3PM053C12L9.3A6
7.5	8.9 -13.5	16	S3PM053C16L13.5A6
10	13.2- 20	20	S3PM053C20L20A6
15	17.4-24	25	S3PM053C25L24A6
20	23-32	32	S3PM053C32L32A6



WITH MCB & SPP (DELUXE MODEL)				
HP at 415V, 50Hz	Overload Relay Range (A)	Contactor Rating (A)	MCB Rating (A)	CATALOGUE CODE
2	2.4- 3.8	16	6	S3PM653C16L3.8A6
3	3.8-6	16	10	S3PM1053C16L6.0A6
5	6-9.3	16	16	S3PM1653C16L9.3A6
7.5	8.9 -13.5	16	25	S3PM2553C16L13.5A6
10	13.2- 20	20	32	S3PM3253C20L20A6
15	17.4-24	25	40	S3PM4053C25L24A6
20	23-32	32	40	S3PM4053C32L32A6

Note : Company can provide other variants, where Relay range & Contactor rating may vary as per requirement.

