

Monoblock Multi-Pole SPD

SPT25-XXX/4(S)

Class I • Class II • Type 1 • Type 2

Location of Use: Main Distribution Boards
 Network Systems: TN-S
 Mode of Protection: L-PE / L'PE, NPE / N'PE
 Surge Ratings: $I_{imp} = 25 \text{ kA} (10/350 \mu\text{s})$
 $I_n = 25 \text{ kA} (8/20 \mu\text{s})$
 IEC/EN Category: Class I+II / Type 1+2
 Protective Elements: High Energy MOV
 Housing: Monoblock Design
 Compliance: IEC 61643-11:2011
 EN 61643-11:2012



Technical Data

SPT25-XXX/4(S)		150	275	320	385	440
IEC Electrical						
Nominal AC Voltage (50/60Hz)	U_o / U_n	120 V	230 V	230 V	230 V	400 V
Maximum Continuous Operating Voltage (AC)	U_c	150 V	275 V	320 V	385 V	440 V
Nominal Discharge Current (8/20 μs)	I_n			25 kA		
Maximum Discharge Current (8/20 μs)	I_{max}			100 kA		
Impulse Discharge Current (10/350 μs)	I_{imp}			25 kA		
Total Discharge Current (10/350 μs)	I_{total}			100 kA		
Specific Energy	W/R			156 kJ / Ω		
Charge	Q			12.5 As		
Voltage Protection Level	U_p	1000 V	1500 V	1600 V	1800 V	2000 V
Response Time	t_A			< 25 ns		
Back-Up Fuse (max)				315 A gL / gG		
Short-Circuit Current Rating (AC)	I_{SCCR}			50 kA		
TOV Withstand 5s	U_T	180 V	335 V	335 V	335 V	580 V
TOV 120min	U_T	230 V	440 V	440 V	440 V	765 V
Number of Ports				1		
Mechanical & Environmental						
Operating Temperature Range	T_a	-40 °F to +158 °F [-40 °C to +70 °C]				
Permissible Operating Humidity	RH	5%...95%				
Atmospheric pressure and altitude		80k Pa ... 106k Pa / -500 m ... 2000 m				
Terminal Screw Torque	M_{max}	26.5 lbf-in [3.0 Nm]				
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm ² (Solid, Stranded) / 25 mm ² (Flexible)				
Mounting		35 mm DIN Rail, EN 60715				
Degree of Protection		IP 20 (built-in)				
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0				
Thermal Protection		Yes				
Operating State / Fault Indication		Green ok / Red defect				
Remote Contacts (RC)		Optional				
RC Switching Capacity		AC: 250V / 0.5 A; DC: 250V / 0.1 A; 125 V / 0.2 A; 75 V / 0.5 A				
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm ² (Solid)				

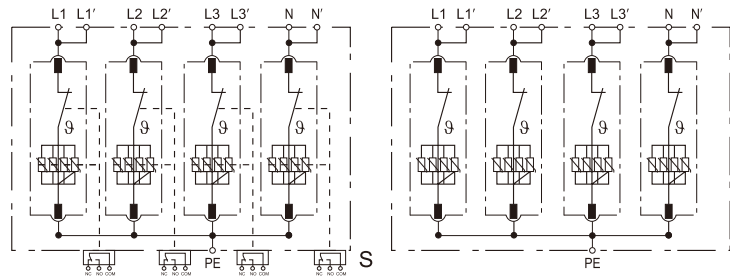
Order Information

Order Code	150	275	320	385	440
SPT25-XXX/4	2515041	2527541	2532041	2538541	2544041
SPT25-XXX/4S(with remote contacts)	2515042	2527542	2532042	2538542	2544042

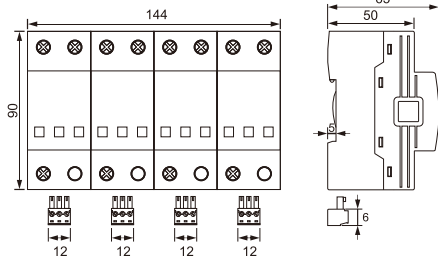
Internal Configuration

Legend

- L / L' Line
- N / N' Neutral
- PE Protective Earth
- S Signalling Contacts Optional



Dimensions & Packaging



Dimensions & Packaging

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Single Unit DIN 43880 Dimension	1 CTN				
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Packaging Dimensions (H x W x L)	[260 x 230 x 320 mm]				
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Minimum Order Quantity	12 Units				
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Connection Diagram

TN-S (Three-phase, 4+0)

