

## Monoblock Multi-Pole SPD

# SPT25-XXX/2(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<sup>2</sup>-PE, N-PE / N<sup>2</sup>-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/2(S)		150	275	320	385	440
<b>IEC Electrical</b>						
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 $\mu\text{s}$ )	$I_n$			25 kA		
Maximum Discharge Current (8/20 $\mu\text{s}$ )	$I_{max}$			100 kA		
Impulse Discharge Current (10/350 $\mu\text{s}$ )	$I_{imp}$			25 kA		
Total Discharge Current (10/350 $\mu\text{s}$ )	$I_{total}$			50 kA		
Specific Energy	W/R			156 kJ / $\Omega$		
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		

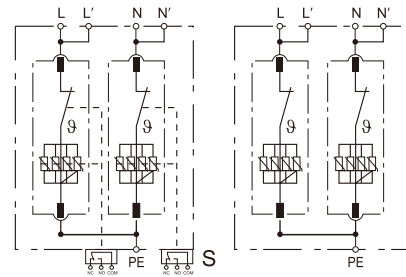
<b>Mechanical &amp; Environmental</b>						
Operating Temperature Range	$T_a$	-40 °F to +158 °F [-40 °C to +70 °C]				
Permissible Operating Humidity	RH	5%...95%				
Atmospheric pressure and altitude		80k Pa ... 106k Pa / -500 m ... 2000 m				
Terminal Screw Torque	$M_{max}$	26.5 lbf-in [3.0 Nm]				
Conductor Cross Section (max)		2 AWG (Solid, Stranded) / 4 AWG (Flexible) 35 mm <sup>2</sup> (Solid, Stranded) / 25 mm <sup>2</sup> (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 <sup>2</sup> (Solid)				

<b>Order Information</b>						
Order Code		150	275	320	385	440
SPT25-XXX/2		2515021	2527521	2532021	2538521	2544021
SPT25-XXX/2S(with remote contacts)		2515022	2527522	2532022	2538522	2544022

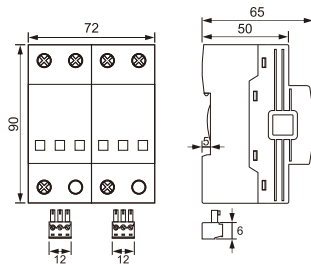
## Internal Configuration

### Legend

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



## Dimensions & Packaging



### Dimensions & Packaging

SPT25-XXX/2(S)	150	275	320	385	440
Single Unit DIN 43880 Dimension	1 CTN				
Packaging Dimensions (H x W x L)	[260 x 230 x 320 mm]				
Minimum Order Quantity	24 Units				

## Connection Diagram

TN-S (Single-phase, 2+0)

