

Monoblock Single-Pole SPD

SPT25-XXX/1(S)

Class I • Class II • Type 1 • Type 2

Location of Use: Main Distribution Boards
 Network Systems: TN-S, TN-C, TT
 Mode of Protection: L-PE / 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



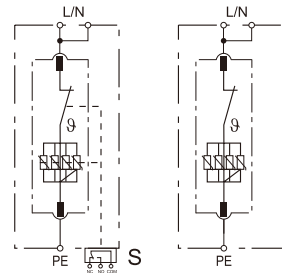
Technical Data

| SPT25-XXX/1(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 | | |
| 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 | 230V | 440V | 440V | 440V | 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/1 | | 2515011 | 2527511 | 2532011 | 2538511 | 2544011 |
| SPT25-XXX/1S (with remote contacts) | | 2515012 | 2527512 | 2532012 | 2538512 | 2544012 |

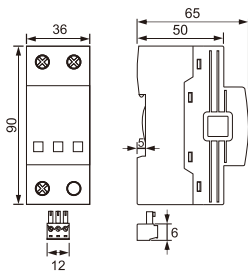
Internal Configuration

Legend

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



Dimensions & Packaging



Dimensions & Packaging

| SPT25-XXX/1(S) | 150 | 275 | 320 | 385 | 440 |
|----------------------------------|----------------------|-----|-----|-----|-----|
| Single Unit DIN 43880 Dimension | 1 CTN | | | | |
| Packaging Dimensions (H x W x L) | [260 × 230 × 320 mm] | | | | |
| Minimum Order Quantity | 42 Units | | | | |

Connection Diagram

TN-S, TN-C, TT (Single-phase, 1+0)

