

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)				

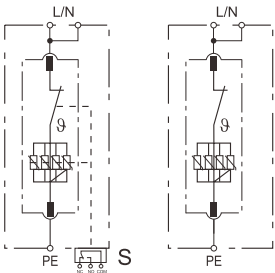
Order Information

Order Code	150	275	320	385	440
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SPT25-XXX/1S(with remote contacts)	2515012	2527512	2532012	2538512	2544012

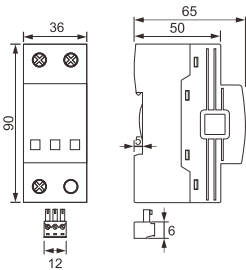
Internal Configuration

Legend

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

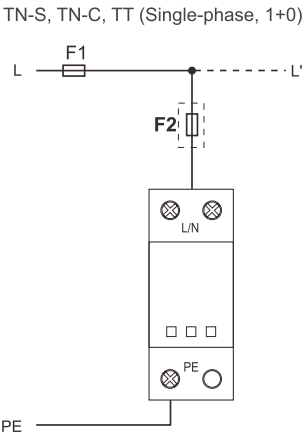


Dimensions & Packaging



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



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'-PE, N-PE / N'-PE
Surge Ratings: $I_{imp} = 25 \text{ kA}$ (10/350 μs)
 $I_n = 25 \text{ kA}$ (8/20 μs)
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



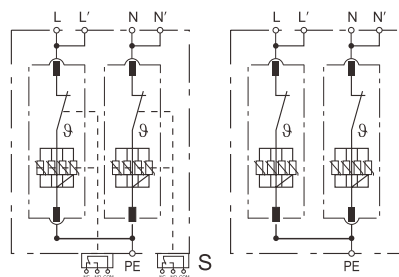
Technical Data

SPT25-XXX/2(S)		150	275	320	385	440
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}			50 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 mm² (Solid, Stranded) / 25 mm²(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 mm²(Solid)				
Order Information						
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

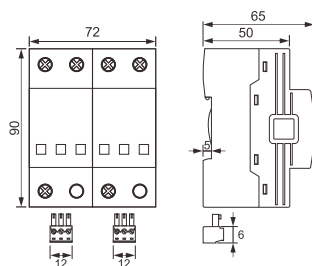
Internal Configuration

Legend

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



Dimensions & Packaging

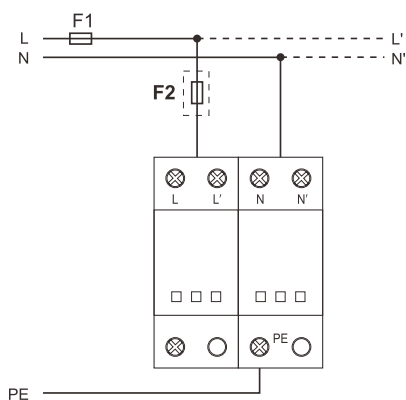


Dimensions & Packaging

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)



Monoblock Multi-Pole SPD

SPT25-XXX/3(S)

Class I • Class II • Type 1 • Type 2

Location of Use: Main Distribution Boards
Network Systems: TN-C
Mode of Protection: L-PE / L'-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/3(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}			75 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)				

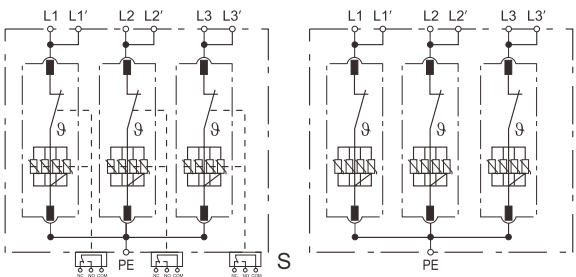
Order Information

Order Code	150	275	320	385	440
SPT25-XXX/3	2515031	2527531	2532031	2538531	2544031
SPT25-XXX/3S(with remote contacts)	2515032	2527532	2532032	2538532	2544032

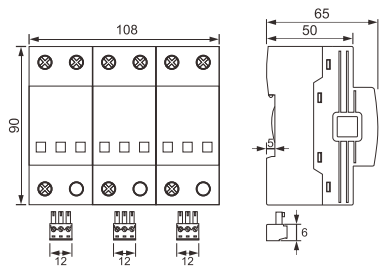
Internal Configuration

Legend

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

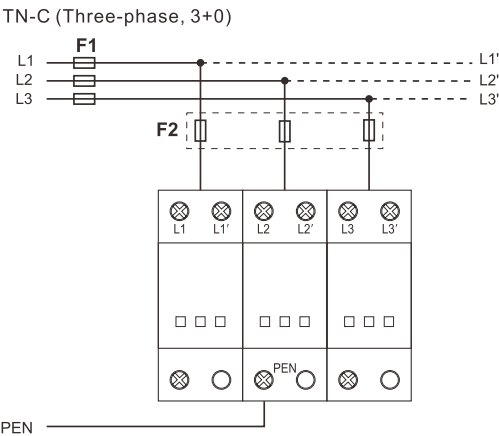


Dimensions & Packaging



Dimensions & Packaging					
SPT25-XXX/3(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	12 Units				

Connection Diagram



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



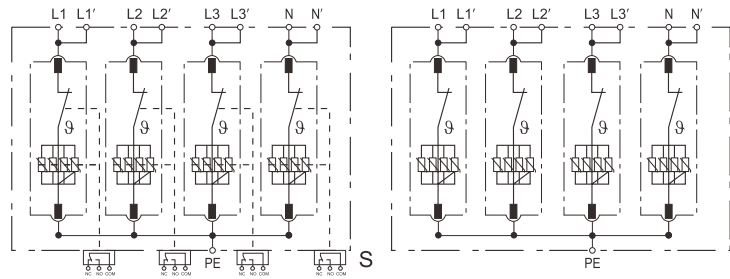
Technical Data

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 mm²(Solid, Stranded) / 25 mm²(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 mm²(Solid)				

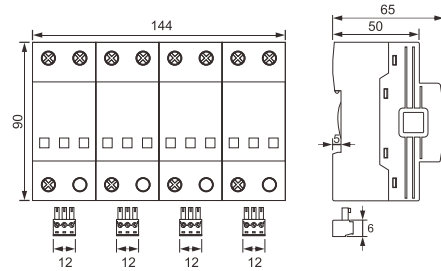
Internal Configuration

Legend

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



Dimensions & Packaging

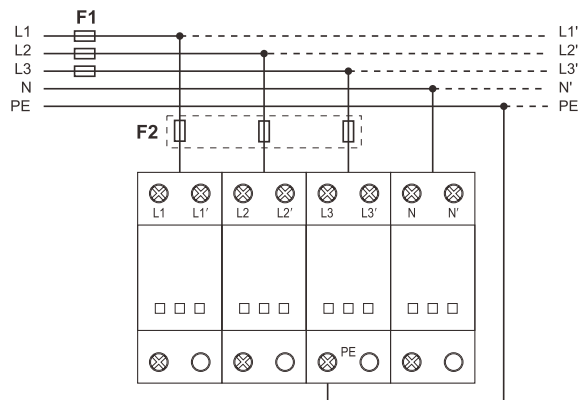


Dimensions & Packaging

SPT25-XXX/4(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	12 Units				

Connection Diagram

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



Monoblock Multi-Pole SPD

SPT25-XXX/1(S)+1

Class I • Class II • Type 1 • Type 2

Location of Use: Main Distribution Boards
Network Systems: TT, TN-S
Mode of Protection: L-N / L'-N, N-PE
Surge Ratings: $I_{imp} = 25 \text{ kA} / 50 \text{ kA} (10/350 \mu\text{s})$
 $I_n = 25 \text{ kA} / 50 \text{ kA} (8/20 \mu\text{s})$
IEC/EN Category: Class I+II / Type 1+2
Protective Elements: High Energy MOV and GDT
Housing: Monoblock Design
Compliance: IEC 61643-11:2011
EN 61643-11:2012



Technical Data

SPT25-XXX/1(S)+1

150 275 320 385

IEC Electrical

Nominal AC Voltage (50/60Hz)		120 V	230 V	230 V	230 V
Maximum Continuous Operating Voltage	(L - N) U_c	150 V	275 V	320 V	385 V
	(N - PE) U_c	255 V	255 V	255 V	255 V
Nominal Discharge Current (8/20 μs)	(L - N) / (N - PE) I_n		25 kA / 50 kA		
Maximum Discharge Current (8/20 μs)	(L - N) / (N - PE) I_{max}		100 kA		
Impulse Discharge Current (10/350 μs)	(L - N) / (N - PE) I_{imp}		25 kA / 50 kA		
Total Discharge Current (10/350 μs)	I_{total}		50 kA		
Specific Energy	(L - N) / (N - PE) W/R		156 kJ / Ω / 625 kJ / Ω		
Charge	(L - N) / (N - PE) Q		12.5 As / 25 As		
Voltage Protection Level	(L - N) / (N - PE) U_p	1000 V / 1500 V	1500 V / 1500 V	1600 V / 1500 V	1800 V / 1500 V
Follow Current Interrupt Rating	(N-PE) I_{fi}		100 A _{RMS}		
Response Time	(L - N) / (N - PE) t_A		< 25 ns / < 100 ns		
Back-Up Fuse (max)			315 A gL / gG		
Short-Circuit Current Rating (AC)	(L - N) I_{SCCR}		50 kA		
TOV Withstand 5s	(L - N) U_T	180 V	335 V	335 V	335 V
TOV 120min	(L - N) U_T	230 V	440 V	440 V	440 V
TOV Withstand 200ms	(N - PE) U_T		1200 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)			

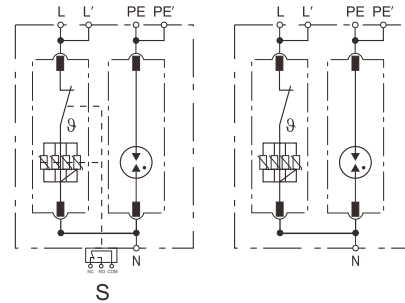
Order Information

Order Code	150	275	320	385
SPT25-XXX/1+1	2515013	2527513	2532013	2538513
SPT25-XXX/1S+1(with remote contacts)	2515014	2527514	2532014	2538514

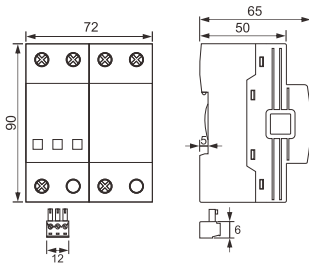
Internal Configuration

Legend

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



Dimensions & Packaging

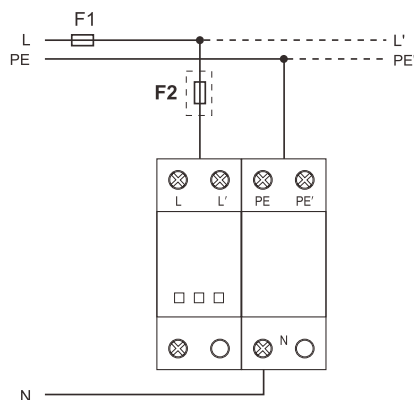


Dimensions & Packaging

SPT25-XXX/1(S)+1	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	24 Units				

Connection Diagram

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



Monoblock Multi-Pole SPD

SPT25-XXX/3(S)+1

Class I • Class II • Type 1 • Type 2

Location of Use: Main Distribution Boards
Network Systems: TT, TN-S
Mode of Protection: L-N / L'-N, N-PE
Surge Ratings: $I_{imp} = 25 \text{ kA} / 100 \text{ kA} (10/350 \mu\text{s})$
 $I_n = 25 \text{ kA} / 100 \text{ kA} (8/20 \mu\text{s})$
IEC/EN Category: Class I+II / Type 1+2
Protective Elements: High Energy MOV and GDT
Housing: Monoblock Design
Compliance: IEC 61643-11:2011
EN 61643-11:2012



Technical Data

SPT25-XXX/3(S)+1

150 275 320 385

IEC Electrical

Nominal AC Voltage (50/60Hz)		120 V	230 V	230 V	230 V
Maximum Continuous Operating Voltage	(L - N) U_c	150 V	275 V	320 V	385 V
	(N - PE) U_c	255 V	255 V	255 V	255 V
Nominal Discharge Current (8/20 μs)	(L - N) / (N - PE) I_n		25 kA / 100 kA		
Maximum Discharge Current (8/20 μs)	(L - N) / (N - PE) I_{max}		100 kA		
Impulse Discharge Current (10/350 μs)	(L - N) / (N - PE) I_{imp}		25 kA / 100 kA		
Total Discharge Current (10/350 μs)	I_{total}		100 kA		
Specific Energy	(L - N) / (N - PE) W/R		156 kJ / Ω / 2.5 M kJ / Ω		
Charge	(L - N) / (N - PE) Q		12.5 As / 50 As		
Voltage Protection Level	(L - N) / (N - PE) U_p	1000 V / 1500 V	1500 V / 1500 V	1600 V / 1500 V	1800 V / 1500 V
Follow Current Interrupt Rating	(N-PE) I_{fi}		100 A _{RMS}		
Response Time	(L - N) / (N - PE) t_A		< 25 ns / < 100 ns		
Back-Up Fuse (max)			315 A gL / gG		
Short-Circuit Current Rating (AC)	(L - N) I_{SCCR}		50 kA		
TOV Withstand 5s	(L - N) U_T	180 V	335 V	335 V	335 V
TOV 120min	(L - N) U_T	230 V	440 V	440 V	440 V
TOV Withstand 200ms	(N - PE) U_T		1200 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)			

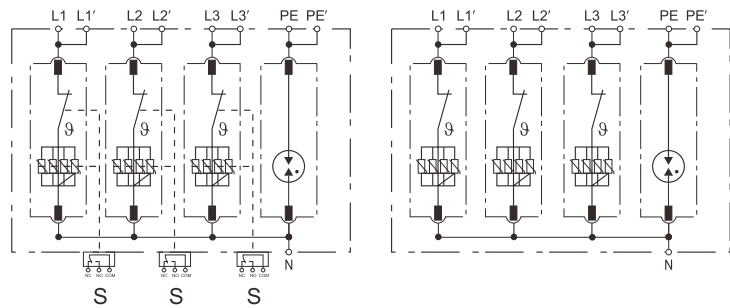
Order Information

Order Code	150	275	320	385
SPT25-XXX/3+1	2515033	2527533	2532033	2538533
SPT25-XXX/3S+1(with remote contacts)	2515034	2527534	2532034	2538534

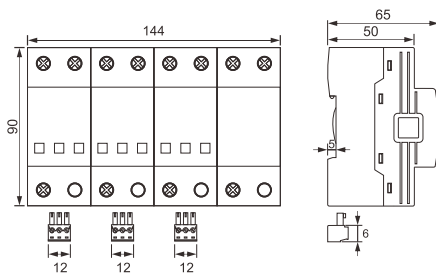
Internal Configuration

Legend

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



Dimensions & Packaging



Dimensions & Packaging

SPT25-XXX/3(S)+1	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	12 Units				

Connection Diagram

TN-S, TT (Three-phase, 3+1)

