

Pluggable Multi-Pole SPD

SPT40-XXX/2(S)

Class II • Type 2 • Type 1 CA

Location of Use: Sub-Distribution Boards

Network Systems: TN-S

Mode of Protection: L-PE, N-PE

Surge Ratings: $I_n = 20 \text{ kA} (8/20 \mu\text{s})$

IEC/EN/UL Category: Class II / Type 2 / Type 1 CA

Protective Elements: High Energy MOV

Housing: Pluggable Design

Compliance: IEC 61643-11:2011
EN 61643-11:2012
UL 1449 4th Edition



Technical Data

SPT40-XXX/2(S)		75	150	275	320	385	440
IEC Electrical							
Nominal AC Voltage (50/60Hz)	U _o / U _n	60 V	120 V	230 V	230 V	230 V	400 V
Maximum Continuous Operating Voltage (AC)	U _c	75 V	150 V	275 V	320 V	385 V	440 V
Nominal Discharge Current (8/20 μs)	I _n	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA
Maximum Discharge Current (8/20 μs)	I _{max}	40 kA	40 kA	40 kA	40 kA	40 kA	40 kA
Voltage Protection Level	U _p	400 V	1000 V	1500 V	1600 V	1750 V	2000 V
Response Time	t _A	< 25 ns					
Back-Up Fuse (max)		125 A gL / gG					
Short-Circuit Current Rating (AC)	I _{SCCR}	25 kA / 50 kA					
TOV Withstand 5s	U _T	90 V	180 V	335 V	335 V	335 V	580 V
TOV 120min	U _T	115 V	230 V	440 V	440 V	440 V	765 V
	mode	Withstand	Withstand	Safe Fail	Safe Fail	Safe Fail	Safe Fail
Number of Ports		1					
UL Electrical							
Maximum Continuous Operating Voltage (AC)	MCOV	75 V	150 V	275 V	320 V	385 V	440 V
Voltage Protection Rating	VPR	330 V	600 V	900 V	1000 V	1200 V	1500 V
Nominal Discharge Current (8/20 μs)	I _n	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA
Short-Circuit Current Rating (AC)	SCCR	100 kA	200 kA	150 kA	150 kA	150 kA	200 kA
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}	39.9 lbf·in [4.5 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)					

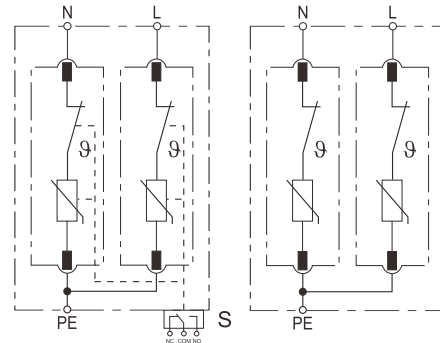
Order Information

Order Code	75	150	275	320	385	440
SPT40-XXX/2	4007521	4015021	4027521	4032021	4038521	4044021
SPT40-XXX/2S(with remote contacts)	4007522	4015022	4027522	4032022	4038522	4044022
SPT40-XXX/0(spare modules)	4007501	4015001	4027501	4032001	4038501	4044001

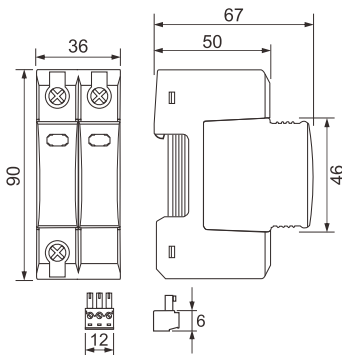
Internal Configuration

Legend

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



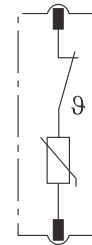
Dimensions & Packaging



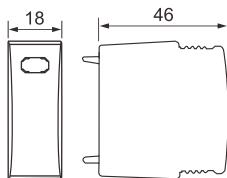
Dimensions & Packaging

SPT40-XXX/2(S)	75	150	275	320	385	440
Single Unit DIN 43880 Dimension	1 CTN					
Packaging Dimensions (H x W x L)	[270 x 230 x 330 mm]					
Minimum Order Quantity	42 Units					

SPT40-XXX/0



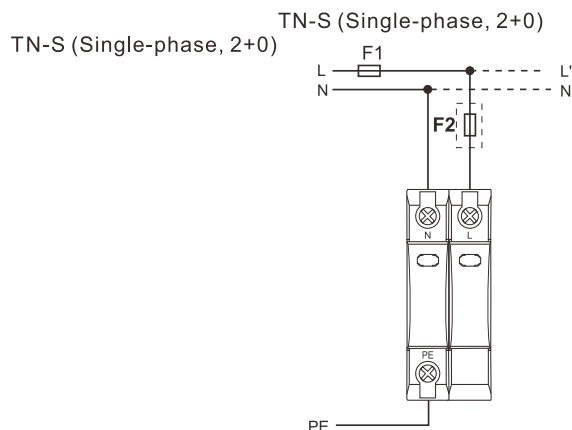
Dimensions & Packaging



Dimensions & Packaging

SPT40-XXX/0	75	150	275	320	385	440
Single Unit DIN 43880 Dimension	1 CTN					
Packaging Dimensions (H x W x L)	[270 x 230 x 330 mm]					
Minimum Order Quantity	96 Units					

Connection Diagram



Pluggable Multi-Pole SPD

SPT40-XXX/3(S)

Class II • Type 2 • Type 1CA

Location of Use: Sub-Distribution Boards

Network Systems: TN-C

Mode of Protection: L-PEN

Surge Ratings: $I_n = 20 \text{ kA}$ (8/20 μs)

IEC/EN/UL Category: Class II / Type 2 / Type 1CA

Protective Elements: High Energy MOV

Housing: Pluggable Design

Compliance: IEC 61643-11:2011

EN 61643-11:2012

UL 1449 4th Edition



Technical Data

SPT40-XXX/3(S)		150	275	320	385	440
IEC Electrical						
Nominal AC Voltage (50/60Hz)	U _o / U _h	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	20 kA	20 kA	20 kA	20 kA	20 kA
Maximum Discharge Current (8/20 μs)	I _{max}	40 kA	40 kA	40 kA	40 kA	40 kA
Voltage Protection Level	U _p	1000 V	1500 V	1600 V	1750 V	2000 V
Response Time	t _A	< 25 ns				
Back-Up Fuse (max)		125 A gL / gG				
Short-Circuit Current Rating (AC)	I _{SCCR}	25 kA / 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
	mode	Withstand	Safe Fail	Safe Fail	Safe Fail	Safe Fail
Number of Ports		1				
UL Electrical						
Maximum Continuous Operating Voltage (AC)	MCOV	150 V	275 V	320 V	385 V	440 V
Voltage Protection Rating	VPR	600 V	900 V	1000 V	1200 V	1500 V
Nominal Discharge Current (8/20 μs)	I _n	20 kA	20 kA	20 kA	20 kA	20 kA
Short-Circuit Current Rating (AC)	SCCR	200 kA	150 kA	150 kA	150 kA	200 kA
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}	39.9 lbf·in [4.5 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)				

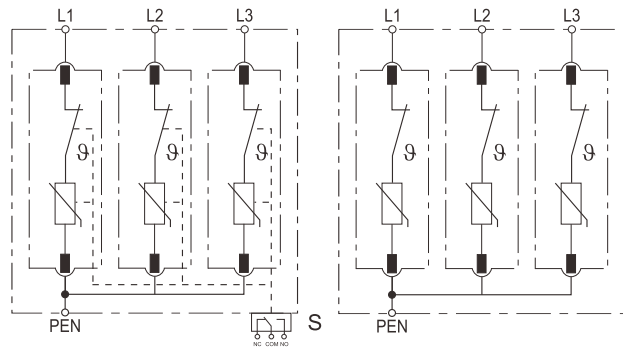
Order Information

Order Code	150	275	320	385	440
SPT40-XXX/3	4015031	4027531	4032031	4038531	4044031
SPT40-XXX/3S(with remote contacts)	4015032	4027532	4032032	4038532	4044032
SPT40-XXX/0(spare modules)	4015001	4027501	4032001	4038501	4044001

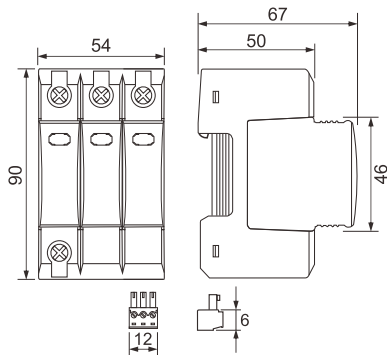
Internal Configuration

Legend

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



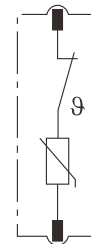
Dimensions & Packaging



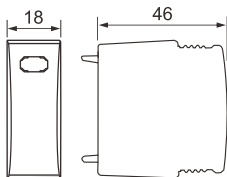
Dimensions & Packaging

SPT40-XXX/3(S)	150	275	320	385	440
Single Unit DIN 43880 Dimension	1 CTN				
Packaging Dimensions (H x W x L)	[270 x 230 x 330 mm]				
Minimum Order Quantity	30 Units				

SPT40-XXX/0



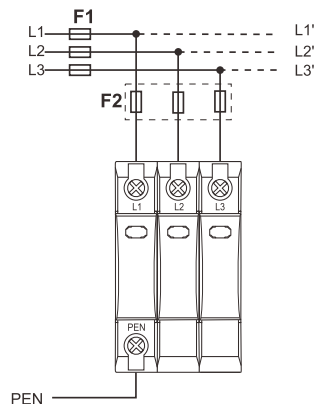
Dimensions & Packaging



Dimensions & Packaging

SPT40-XXX/0	150	275	320	385	440
Single Unit DIN 43880 Dimension	1 CTN				
Packaging Dimensions (H x W x L)	[270 x 230 x 330 mm]				
Minimum Order Quantity	96 Units				

TN-C (Three-phase, 3+0)



Connection Diagram

Pluggable Multi-Pole SPD

SPT40-XXX/4(S)

Class II • Type 2 • Type 1 CA

Location of Use: Sub-Distribution Boards

Network Systems: TN-S

Mode of Protection: L-PE, N-PE

Surge Ratings: $I_n = 20 \text{ kA} (8/20 \mu\text{s})$

IEC/EN/UL Category: Class II / Type 2 / Type 1 CA

Protective Elements: High Energy MOV

Housing: Pluggable Design

Compliance: IEC 61643-11:2011
EN 61643-11:2012
UL 1449 4th Edition



Technical Data

SPT40-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	20 kA	20 kA	20 kA	20 kA	20 kA
Maximum Discharge Current (8/20 μs)	I _{max}	40 kA	40 kA	40 kA	40 kA	40 kA
Voltage Protection Level	U _p	1000 V	1500 V	1600 V	1750 V	2000 V
Response Time	t _A	< 25 ns				
Back-Up Fuse (max)		125 A gL / gG				
Short-Circuit Current Rating (AC)	I _{SCCR}	25 kA / 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
	mode	Withstand	Safe Fail	Safe Fail	Safe Fail	Safe Fail
Number of Ports		1				
UL Electrical						
Maximum Continuous Operating Voltage (AC)	MCOV	150 V	275 V	320 V	385 V	440 V
Voltage Protection Rating	VPR	600 V	900 V	1000 V	1200 V	1500 V
Nominal Discharge Current (8/20 μs)	I _n	20 kA	20 kA	20 kA	20 kA	20 kA
Short-Circuit Current Rating (AC)	SCCR	200 kA	150 kA	150 kA	150 kA	200 kA
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}	39.9 lbf·in [4.5 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		16 AWG (Solid) / 1.5 mm² (Solid)				

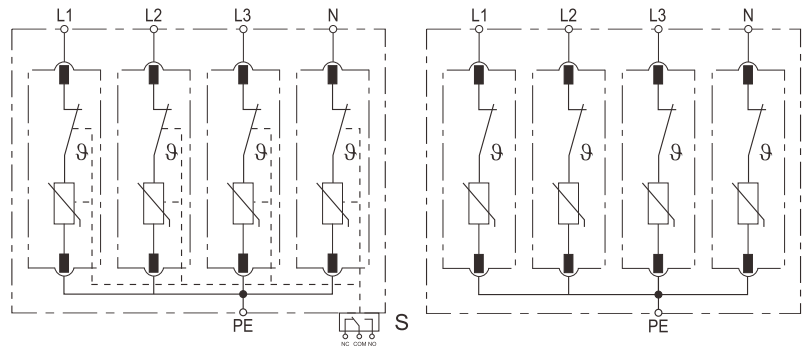
Order Information

Order Code	150	275	320	385	440
SPT40-XXX/4	4015041	4027541	4032041	4038541	4044041
SPT40-XXX/4S(with remote contacts)	4015042	4027542	4032042	4038542	4044042
SPT40-XXX/0(spare modules)	4015001	4027501	4032001	4038501	4044001

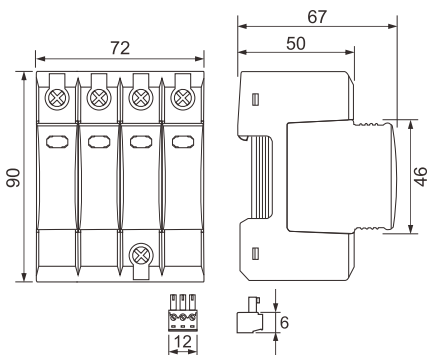
Internal Configuration

Legend

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



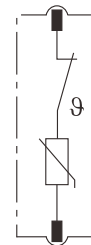
Dimensions & Packaging



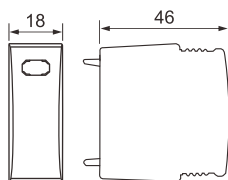
Dimensions & Packaging

SPT40-XXX/4(S)	150	275	320	385	440
Single Unit DIN 43880 Dimension	1 CTN				
Packaging Dimensions (H x W x L)	[270 x 230 x 330 mm]				
Minimum Order Quantity	24 Units				

SPT40-XXX/0



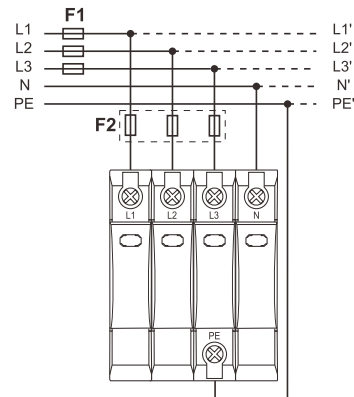
Dimensions & Packaging



Dimensions & Packaging

SPT40-XXX/0	150	275	320	385	440
Single Unit DIN 43880 Dimension	1 CTN				
Packaging Dimensions (H x W x L)	[270 x 230 x 330 mm]				
Minimum Order Quantity	96 Units				

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



Connection Diagram

Pluggable Multi-Pole SPD

SPT40-XXX/1(S)+1

Class II • Type 2 • Type 1CA

Location of Use: Sub-Distribution Boards

Network Systems: TT, TN-S

Mode of Protection: L-N, N-PE

Surge Ratings: $I_n = 20 \text{ kA} (8/20 \mu\text{s})$

IEC/EN/UL Category: Class II / Type 2 / Type 1CA

Protective Elements: High Energy MOV and GDT

Housing: Pluggable Design

Compliance: IEC 61643-11:2011

EN 61643-11:2012

UL 1449 4th Edition



Technical Data

SPT40-XXX/1(S)+1

75 150 275 320

IEC Electrical

Nominal AC Voltage (50/60Hz)		60 V	120 V	230 V	230 V
Maximum Continuous Operating Voltage	(L - N) U_c	75 V	150 V	275 V	320 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		20 kA / 20 kA		
Maximum Discharge Current (8/20 μs)	(L - N) / (N - PE) I_{max}		40 kA / 40 kA		
Voltage Protection Level	(L - N) / (N - PE) U_p	400 V / 1000 V	1000 V / 1000 V	1500 V / 1000 V	1600 V / 1000 V
Follow Current Interrupt Rating	(N-PE) I_{fi}		100 A R_{MS}		
Response Time	(L - N) / (N - PE) t_A		< 25 ns / < 100 ns		
Back-Up Fuse (max)			125 A gL / gG		
Short-Circuit Current Rating (AC)	(L - N) I_{SCCR}		25 kA / 50 kA		
TOV Withstand 5s	(L - N) U_T	90 V	180 V	335 V	335 V
TOV 120min	(L - N) U_T	115 V	230 V	440 V	440 V
		mode	Withstand	Withstand	Safe Fail
TOV Withstand 200ms	(N - PE) U_T			1200 V	
Number of Ports				1	

UL Electrical

Maximum Continuous Operating Voltage (AC)	(L - N) / (N - PE) MCOV	75 V / 255 V	150 V / 255 V	275 V / 255 V	320 V / 255 V
Voltage Protection Rating	(L - N) / (N - PE) VPR	330 V / 1000 V	600 V / 1000 V	900 V / 1000 V	1000 V / 1000 V
Nominal Discharge Current (8/20 μs)	(L - N) / (N - PE) I_n	20 kA / 20 kA	20 kA / 20 kA	20 kA / 20 kA	20 kA / 20 kA
Short-Circuit Current Rating (AC)	(L - N) SCCR	100 kA	200 kA	150 kA	150 kA

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}	39.9 lbf·in [4.5 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)

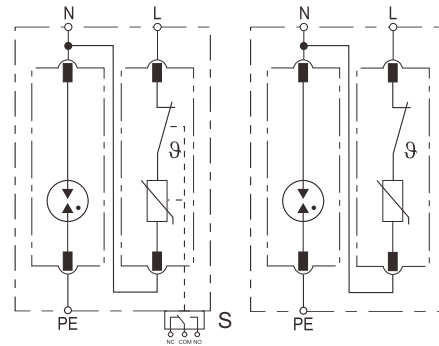
Order Information

Order Code	75	150	275	320
SPT40-XXX/1+1	4007513	4015013	4027513	4032013
SPT40-XXX/1S+1 (with remote contacts)	4007514	4015014	4027514	4032014
SPT40-XXX/0 (spare modules)	4007501	4015001	4027501	4032001
SPT40-NPE/0 (spare modules)	4025501	4025501	4025501	4025501

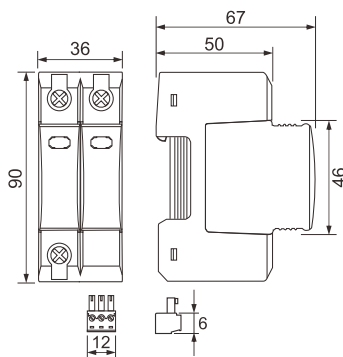
Internal Configuration

Legend

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

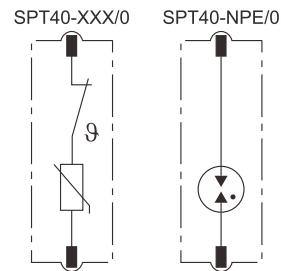


Dimensions & Packaging

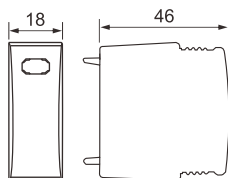


Dimensions & Packaging

SPT40-XXX/1(S)+1	75	150	275	320
Single Unit DIN 43880 Dimension	1 CTN			
Packaging Dimensions (H x W x L)	[270 × 230 × 330 mm]			
Minimum Order Quantity	42 Units			



Dimensions & Packaging

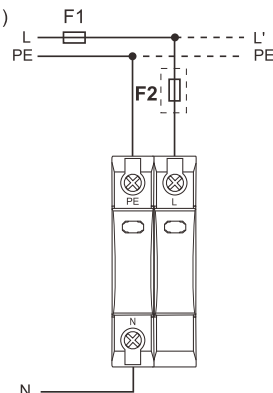


Dimensions & Packaging

SPT40-XXX/0	75	150	275	320
SPT40-NPE/0	40			
Single Unit DIN 43880 Dimension	1 CTN			
Packaging Dimensions (H x W x L)	[270 × 230 × 330 mm]			
Minimum Order Quantity	96 Units			

Connection Diagram

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



Pluggable Multi-Pole SPD

SPT40-XXX/3(S)+1

Class II • Type 2 • Type 1CA

Location of Use: Sub-Distribution Boards

Network Systems: TT, TN-S

Mode of Protection: L-N, N-PE

Surge Ratings: $I_n = 20 \text{ kA} (8/20 \mu\text{s})$

IEC/EN/UL Category: Class II / Type 2 / Type 1CA

Protective Elements: High Energy MOV and GDT

Housing: Pluggable Design

Compliance: IEC 61643-11:2011

EN 61643-11:2012

UL 1449 4th Edition



Technical Data

SPT40-XXX/3(S)+1

SPT40-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	20 kA / 20 kA			
Maximum Discharge Current (8/20 μs)	(L - N) / (N - PE)	I _{max}	40 kA / 40 kA			
Voltage Protection Level	(L - N) / (N - PE)	U _p	1000 V / 1000 V	1500 V / 1000 V	1600 V / 1000 V	1750 V / 1000 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)			125 A gL / gG			
Short-Circuit Current Rating (AC)	(L - N)	I _{SCCR}	25 kA / 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
		Mode	Withstand	Safe Fail	Safe Fail	Safe Fail
TOV Withstand 200ms	(N - PE)	U _T	1200 V			
Number of Ports			1			
UL Electrical						
Maximum Continuous Operating Voltage (AC)	(L - N) / (N - PE)	MCOV	150 V / 255 V	275 V / 255 V	320 V / 255 V	320 V / 255 V
Voltage Protection Rating	(L - N) / (N - PE)	VPR	600 V / 1000 V	900 V / 1000 V	1000 V / 1000 V	1200 V / 1000 V
Nominal Discharge Current (8/20 μs)	(L - N) / (N - PE)	I _n	20 kA / 20 kA	20 kA / 20 kA	20 kA / 20 kA	20 kA / 20 kA
Short-Circuit Current Rating (AC)	(L - N)	SCCR	200 kA	150 kA	150 kA	150 kA
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}		39.9 lbf·in [4.5 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)			

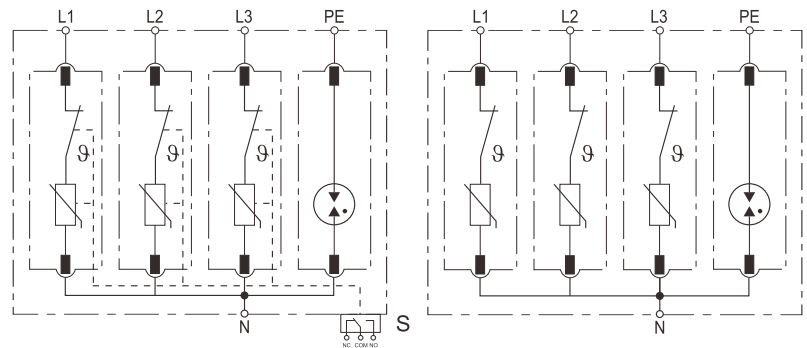
Order Information

Order Code	150	275	320	385
SPT40-XXX/3+1	4015033	4027533	4032033	4038533
SPT40-XXX/3S+(with remote contacts)	4015034	4027534	4032034	4038534
SPT40-XXX/0(spare modules)	4015001	4027501	4032001	4038501
SPT40-NPE/0(spare modules)	4025501	4025501	4025501	4025501

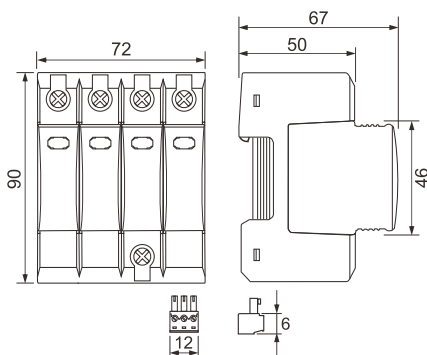
Internal Configuration

Legend

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



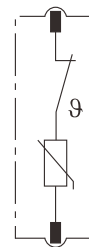
Dimensions & Packaging



Dimensions & Packaging

SPT40-XXX/3(S)+1	150	275	320	385
Single Unit DIN 43880 Dimension	1 CTN			
Packaging Dimensions (H x W x L)	[270 x 230 x 330 mm]			
Minimum Order Quantity	24 Units			

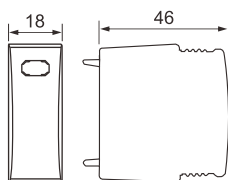
SPT40-XXX/0



SPT40-NPE/0



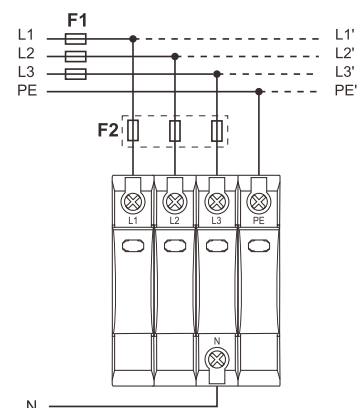
Dimensions & Packaging



Dimensions & Packaging

SPT40-XXX/0	150	275	320	385
SPT40-NPE/0	40			
Single Unit DIN 43880 Dimension	1 CTN			
Packaging Dimensions (H x W x L)	[270 x 230 x 330 mm]			
Minimum Order Quantity	96 Units			

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



Connection Diagram