

Surge Protection SPDT3



Powering Business Worldwide

sg03213



Beschreibung

- Test class 3 tested SPD
- Suitable to protect sensitive devices in your installation
- To be placed on a DIN-rail in the near vicinity of sensitive devices
- Auxiliary contact available as accessory

Types

SPD „NPE“

- Galvanic separated SPD path between neutral and protective earth
- Suitable to be placed behind an RCD due to the 1+1 connection

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SPDT3-335-1+NPE

Poles	Max. Continuous Operating Voltage U_c	Type Designation	Article No.	Units per package
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Surge arrester SPDT3

Single phase supply / 1+1 connection

1pole+N	335 VAC	SPDT3-335-1+NPE	170487	1/60
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Single phase supply / 2+0 connection

2pole	280 VAC	SPDT3-280/2	170485	1/60
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Max. Continuous Operating Voltage U_c	Type Designation	Article No.	Units per package
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Surge arrester SPDT3, Insert

Insert (1pole/path)

280 VAC	SPDT3-280	170484	2/120
335 VAC	SPDT3-335	170486	2/120



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Description Surge Protective Class T3

- Field of application:
For fine protection of user equipment against transient overvoltage
- For mounting on DIN rails in distribution boxes for electrical installation
- No decoupling from upstream surge protection in the low voltage distribution system required
- Test class III according to IEC 61643-11
- SPD-type T3 according to EN 61643-11
- Suitable for high back-up fuse 63 A gL / C 63
- Auxiliary switch ASAXSC-SPM for remote message transmission can be mounted onto the device

Technical Data

SPDT3-335-1+NPE			SPDT3-280/2			
Electrical						
Mechanical coding		yx		xx		
Responding time (rate of voltage rise 5 kV/μs)		L-N/N-PE/L-PE	< 25ns/< 100ns/< 100ns	L1-L2(N)/L2(N)-PE/L1-PE	< 25ns	
Max. continuous operating voltage		U _C	L-N/N-PE	335VAC/260VAC	L1-L2(N)/L2(N)-PE	280VAC
TOV test value		U _T				
5 s		L-N/L-PE	348VAC/416VAC	L-N/L-PE	348VAC/416VAC	
200 ms		N-PE	1200VAC	N-PE	1200VAC	
Rated frequency			50 Hz		50 Hz	
Open circuit voltage		U _{OC}	L-N/N-PE/L-PE	6kV	L1-L2(N)/L2(N)-PE/L1-PE	6kV
Voltage protection level at UOC		U _p	L-N/N-PE/L-PE	≤1000V/≤1500V/≤1000V	L1-L2(N)/L2(N)-PE	≤900V
Nominal discharge current (8/20) μs		I _n	L-N/N-PE/L-PE	2.5kA	L1-L2(N)/L2(N)-PE	5kA
Voltage protection level at I _n		U _p	L-N/N-PE/L-PE	≤1000V/≤1500V/≤1000V	L1-L2(N)/L2(N)-PE	≤950V
Max. discharge current (8/20) μs		I _{max}	L-N/N-PE/L-PE	10kA	L1-L2(N)/L2(N)-PE/L1-PE	10kA
Follow current interrupt rating		I _{fi}	N-PE	100 A _{r.m.s.}	—	
Maximum back-up fuse		 ≤ 125 AgL 50 kA _{r.m.s.}		 ≤ C63 10 kA _{r.m.s.}		
Maximum short-circuit current						

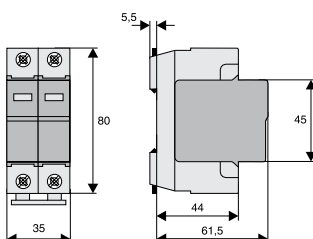
Connection diagram



Mechanical

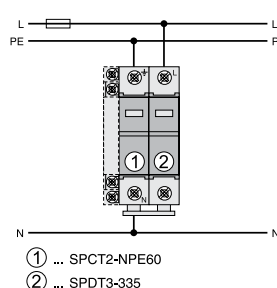
Mechanical coding of base	yx	xx
Frame size	45 mm	45 mm
Device height	80 mm	80 mm
Device width	35 mm	35 mm
Weight	220 g	220 g
Permitted ambient temperature	-40°C to +70°C	-40°C to +70°C
Degree of protection	IP20	IP20
Upper and lower lift terminal capacity	1 - 25 mm ²	1 - 25 mm ²
Upper and lower open mouthed terminals for busbar thickness up to	1.5 mm	1.5 mm
Tightening torque of terminal screws	2.4 - 3 Nm	2.4 - 3 Nm
Quick fastening on DIN rail according to	IEC/EN 60715	IEC/EN 60715

Dimensions (mm)

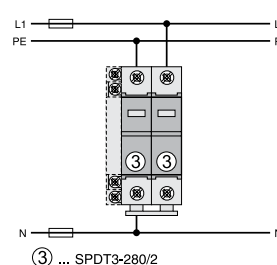


Application Examples

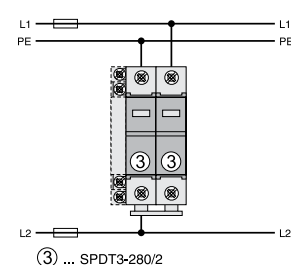
SPDT3-335-1+NPE
TN-, TT-System
3 x 230/400 VAC
3 x 240/415 VAC



SPDT3-280/2
IT-System
3 x 230/400 VAC



SPDT3-280/2
IT-, TT-System
3 x 133/230 VAC



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