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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. Continous Operating Voltage U_C	Type Designation	Article No.	Units per package
Surge arrester SPDT3				
Single phase supply / 1+1 connection				
1pole+N	335 VAC	SPDT3-335-1+NPE	170487	1/60
Single phase supply / 2+0 connection				
2pole	280 VAC	SPDT3-280/2	170485	1/60

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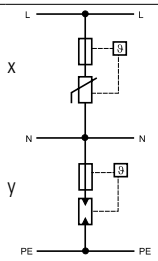
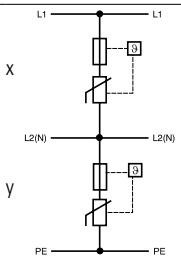
Max. Continous Operating Voltage U_C	Type Designation	Article No.	Units per package
Surge arrester SPDT3, Insert			
Insert (1pole/path)			
280 VAC	SPDT3-280	170484	2/120
335 VAC	SPDT3-335	170486	2/120

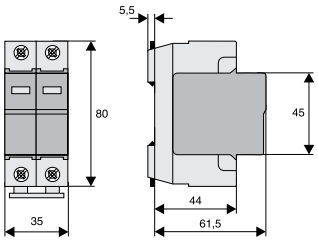
Description Surge Protective Class T3

- 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 ASAUXSC-SPM for remote message transmission can be mounted onto the device

Technical Data

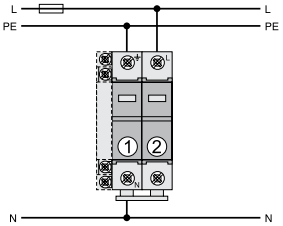
			SPDT3-335-1+NPE		SPDT3-280/2
Electrical					
Mechanical coding			yx		xx
Responding time (rate of voltage rise 5 kV/µs)		L-N/N-PE/L-PE	< 25ns/< 100ns/< 100ns	L1-L2(N)/L2(N)-PE/L1-PE	< 25ns
Max. continuous operating voltage	U_C	L-N/N-PE	335VAC/260VAC	L1-L2(N)/L2(N)-PE	280VAC
TOV test value	U_T				
5 s		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 Maximum short-circuit current			≤ 125 AgL 50 $kA_{r.m.s.}$		≤ C63 10 $kA_{r.m.s.}$
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)



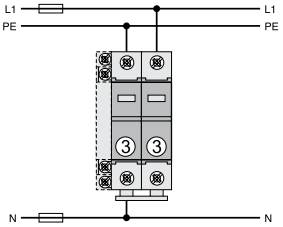
Application Examples

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



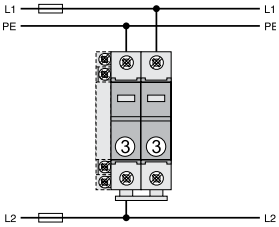
① ... SPCT2-NPE60
② ... SPDT3-335

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



③ ... SPDT3-280/2

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



③ ... SPDT3-280/2

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