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ISO 9001 Certified Quality System

SAPV100T2 - SAPV100T2R

CE CA			SAPV100T2	SAPV100T2R
Standards				
Applicable Standards			EN 50539-11 / IEC 61643-31	
Technical data				
Residual current	I _{PF}	μΑ	< 500 (ac/dc)	
Permanent current for PV application	I _{CPV}	μΑ	< 500 (ac/dc)	
Maximum continuous operating voltage	U _{CPV}	Vdc	1040	
Nominal discharge current (8/20 μ s)	In	kA	18	
Maximum discharge current (8/20 μ s)	I _{max}	kA	40	
Total discharge current (8/20 μ s)	I _{total}	kA	40	
Reference voltage (1 mA)	U _{REF}	Vdc	1500	
Short-circuit current without back-up fuse	I _{SCPV}	kA	1	
Voltage protection level	U _D	kV	< 3,5	
Remote signaling relay - Electrical parameters	P		-	230 Vac – 1 A 24 Vdc – 1 A
Functional data				
SPD typology			Type 2 / Class II	
Protection technology			Metal Oxide Varistor (MOV)	
Protection mode			L+ / PE, L / PE (common mode) L+ / L- (differential mode)	
Typical response time	t _A	ns	< 25	
Thermal protection			Yes	
SPD failure mode			Open circuit (OCFM)	
Operating status signaling			Local, through display indicator (GREEN - Service; RED - End of lifetime)	
Mechanical characteristics				
Protection degree			IP20	
Number of ports		Nr.	1	
Maximum dimensions (W-D-H)		mm	53 x 74 x 94,6	53 x 74 x 99
Fixing			DIN rail	
Enclosure material			UL-V0 (non-spread and self-extinguishing characteristics)	
Weight		g	315	322
Connection terminals - Cross-sectional area of conductors		mm² AWG	4 ÷ 25 11 ÷ 4	
Connection terminals - Tightening torque		Nm	3 (±10%)	
Remote signaling relay - Cross-sectional area of conductors		mm ²	-	1,5
Remote signaling relay - Tightening torque		Nm	_	0,4 (±10%)
Ambient conditions		1 14111		0,7 (± 10/0)
Humidity		%HR	5 ÷ 95	
Operating temperature	Tu	°C	-40 ÷ +70	
Installation	1 '0		Indoor	
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Surge Protective Device (SPD) for PV applications, DC side, Type 2 / Class II (IEC 61643-31), of the voltage limiting type with metal oxide varistor technology (MOV) associated with a thermal disconnection device (overtemperature).

Characteristics

- It allows replacement of plugs with the system powered on.
- Local indicator of the operating status conditions.
- Remote signaling of the operating conditions (optional).
- Internal switch to disconnect the SDP at the end of its lifetime.
- Fixing on DIN rail.

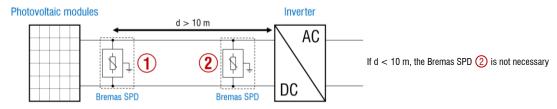
Application

Suitable for protection against induced overvoltages. Typically installed inside string boxes and/or combiner boxes and/or inverter for PV applications.

Electrical circuit



Mounting tips



Dimensions

Dimensions in mm

