

SAPV100T2 – SAPV100T2R



		SAPV100T2	SAPV100T2R
Standards			
Applicable Standards		EN 50539-11 / IEC 61643-31	
Technical data			
Residual current	I_{PE}	μA	< 500 (I _{AC/DC})
Permanent current for PV application	I_{CPV}	μA	< 500 (I _{AC/DC})
Maximum continuous operating voltage	U_{CPV}	$V_{(DC)}$	1040
Nominal discharge current (8/20 μs)	I_n	kA	18
Maximum discharge current (8/20 μs)	I_{max}	kA	40
Total discharge current (8/20 μs)	I_{total}	kA	40
Reference voltage (1 mA)	U_{REF}	$V_{(DC)}$	1500
Short-circuit current without back-up fuse	I_{SCPV}	kA	1
Voltage protection level	U_p	kV	< 3,5
Remote signaling relay - Electrical parameters			230 V _(AC) / 1A 24 V _(DC) / 1A
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	mm ² 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			
Humidity	%HR	5 ÷ 95	
Operating temperature	T_U	°C	-40 ÷ +70
Installation		Indoor	



Description

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).

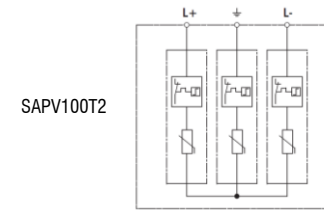
Characteristics

- 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.

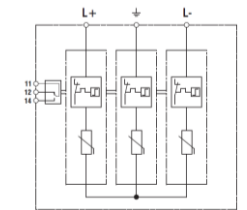
Application

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

Electrical circuit



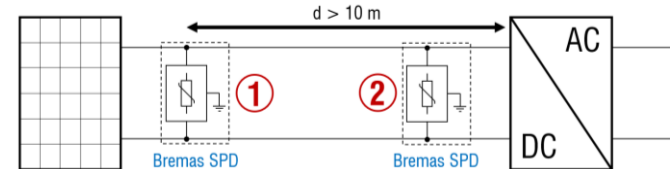
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Mounting tips

Photovoltaic modules

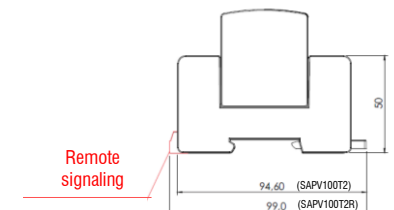
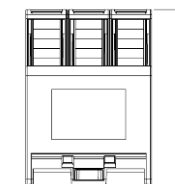


Inverter

If $d < 10$ m, the Bremas SPD ② is not necessary

Dimensions

Dimensions in mm



Remote signaling