

SAPV100T2 – SAPV100T2R

		SAPV100T2	SAPV100T2R
<b>Standards</b>			
Applicable Standards		EN 50539-11 / IEC 61643-31	
<b>Technical data</b>			
Residual current	$I_{PE}$	$\mu A$	< 500 ( $I_{AC/DC}$ )
Permanent current for PV application	$I_{CPV}$	$\mu A$	< 500 ( $I_{AC/DC}$ )
Maximum continuous operating voltage	$U_{CPV}$	$V_{(DC)}$	1040
Nominal discharge current (8/20 $\mu s$ )	$I_n$	kA	18
Maximum discharge current (8/20 $\mu s$ )	$I_{max}$	kA	40
Total discharge current (8/20 $\mu s$ )	$I_{total}$	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
<b>Functional data</b>			
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)
<b>Mechanical characteristics</b>			
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	274      280
Connection terminals - Cross-sectional area of conductors		mm <sup>2</sup> AWG	4 ÷ 25 11 ÷ 4
Connection terminals - Tightening torque		Nm	3 ( $\pm 10\%$ )
Remote signaling relay - Cross-sectional area of conductors		mm <sup>2</sup>	-      1,5
Remote signaling relay - Tightening torque		Nm	-      0,4 ( $\pm 10\%$ )
<b>Ambient conditions</b>			
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).

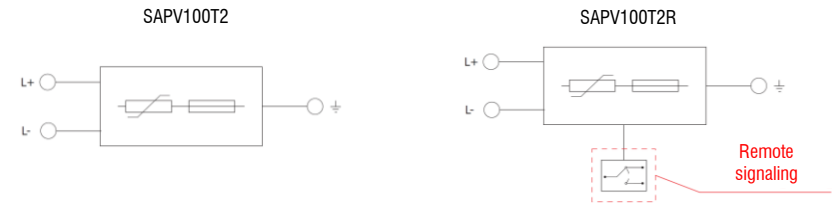
**Characteristics**

- 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**

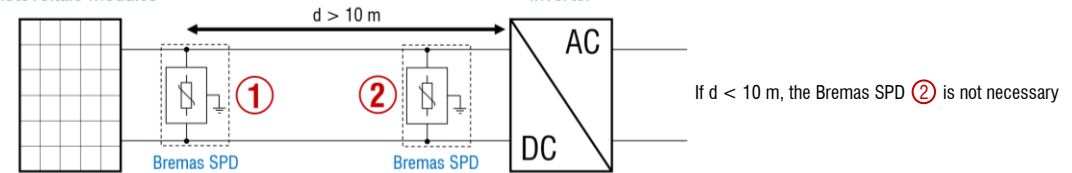
Suitable for protection against induced overvoltages. Typically installed inside string boxes and/or combiner boxes and/or inverter for PV applications.

**Electrical circuit**



**Mounting tips**

**Photovoltaic modules**



**Dimensions**

Dimensions in mm

