DC Surge Protective Device



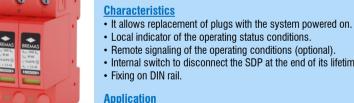
Surge Protective Device (SPD) for PV applications, DC side, Type 2 / Class II (IEC 61643-31), of the voltage limiting type with metal oxide varistor technology (MOV) associated with a

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SAPV100T2 - SAPV100T2B

CE		[SAPV100T2	SAPV100T2R	
Standards					
Applicable Standards			EN 50539-11 / IEC 61643-31		
Technical data					
Residual current	IPE	μA	< 500 (I _{AC/DC})		
Permanent current for PV application	I _{CPV}	μΑ	< 500 (I _{AC/DC})		
Maximum continuous operating voltage	U _{CPV}	V _(DC)	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)	UREF	V _(DC)	1500		
Short-circuit current without back-up fuse	I _{SCPV}	kA	1		
Voltage protection level	Up	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	tA	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)		
14/-:		-		0 0 /	
Weight Connection terminals - Cross-sectional area of		g mm ²	2744 ÷	280	
conductors		AWG	4 ÷ 23 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	Tu	°C	-40 ÷ +70		
Installation			Indoor		





• Internal switch to disconnect the SDP at the end of its lifetime. Fixing on DIN rail.

Application

Description

thermal disconnection device (overtemperature).

-0 ±

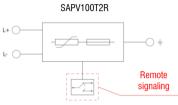
Suitable for protection against induced overvoltages. Typically installed inside string boxes and/or combiner boxes and/or inverter for PV applications.

Electrical circuit

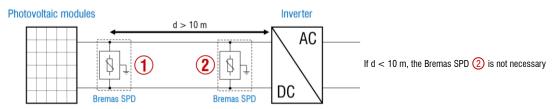
L+ ()

L- ()

SAPV100T2

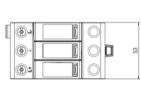


Mounting tips

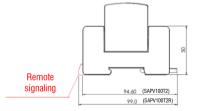


Dimensions

Dimensions in mm







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