DC Surge Protective Device

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ISO 9001 Certified Quality System

SAPV060T2 – SAPV060T2R

CE UKCA

				SAPV060T2	SAPV060T2R
Standards					
Applicable Standards				IEC 61643-31 / EN 50536-11	
Technical data					
Maximum continuous operating voltage	(DC+) - PE, (DC-) - PE	U_{cPV}	V	600	
	(DC+) - (DC-)	U_{cPV}	V	-	
Nominal discharge current (8/20 µs)		I_n	kA	20	
Impulse Discharge Current (10/350 µs)		I_{imp}	kA	-	
Total discharge current (10/350 µs)		I_{tot}	kA	-	
Total discharge current (8/20 µs)		I_{tot}	kA	40	
Maximum discharge current (8/20 µs)		I_{max}	kA	40	
Voltage protection level	(DC+) - PE, (DC-) - PE	U_p	kV	2,2	
	(DC+) - (DC-)	U_p	kV	2,2	
Response time		t_A	ns	< 25	
Short-circuit current rating		I_{scpv}	kA	10	
Number of ports		Nr		1	
Functional data					
IEC/EN category	Type / Class			2 / II	
Protective elements				High energy MOV	
Mechanical characteristics					
Terminal screw torque		M_{max}	Nm	4,5	
Conductor cross section (max)		Solid, Stranded	mm^2	35	
			AWG	2	
		Flexible	mm^2	25	
			AWG	4	
Mounting				35 mm DIN rail, EN 60715	
Degree of protection				IP20 (built-in)	
Housing material				Thermoplastic Extinguishing Degree UL 94 V-0	
Thermal Protection				Yes	
Operating State / Fault Indication				Green ok / Red defect	
Remote Contacts	Switching capacity	AC	V	-	250 / 125
			A	-	0,5 / 0,2
		DC	V	-	250 / 75
			A	-	0,1 / 0,5
	Conductor cross section (max)		mm^2	-	1,5
			AWG	-	16
Dimensions (W-D-H)			mm	54 x 67 x 90	54 x 67 x 96
Weight			g	29,9	30,3
Ambient conditions					
Permissible operating humidity			%HR	5 ÷ 95	
Operating temperature		T_a	°C	-40 ÷ +70	
Atmospheric pressure and altitude			k Pa	80 ÷ 106	
			m	-500 / 2000	
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).

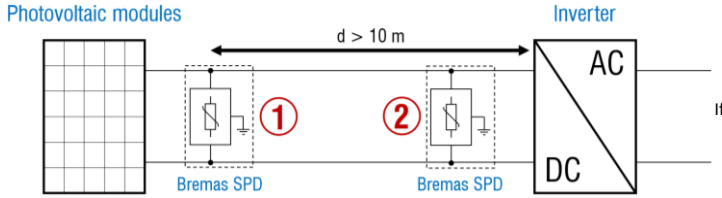
Characteristics

- 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.

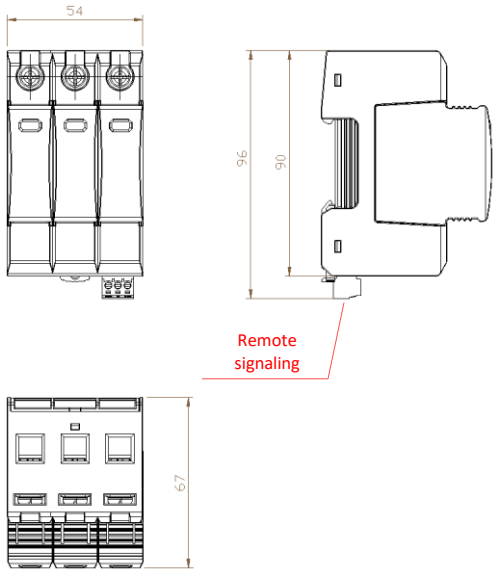
Mounting tips



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

Dimensions

Dimensions in mm



Electrical circuit

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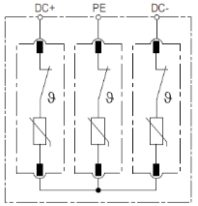

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