

Bremas Ersce S.p.A.

Via Castellazzo 9 – 20040 Cambiago (MI) Tel: +39 02 95651611 Fax: +39 02 95651639 www.bremas.it info@bremas.it ISO 9001 Certified Quality System

SAPV060T12 - SAPV060T12R



				SAPV060T12	SAPV060T12R
Standards					
Applicable Standards				IEC 61643-31 / EN 50536-11	
Technical data	!			•	
Maximum continuous operating	(DC+) - PE, (DC-) - PE	UcPV	V	600	
voltage	(DC+) - (DC-)	UcPV	V	-	
Nominal discharge current (8/20 μs)		In	kA	20	
Impulse Discharge Current (10/350 μs)		[imp	kA	6,25	
Total discharge current (10/350 μs)		[tot	kA	12,5	
Total discharge current (8/20 μs)		[tot	kA	40	
Maximum discharge current (8/20 μs)		Imax	kA	40	
Voltage protection level	(DC+) - PE, (DC-) - PE	Up	kV	2,2	
	(DC+) - (DC-)	Up	kV	2,2	
Response time		t _A	ns	< 25	
Short-circuit current rating		İscpv	kA	10	
Number of ports		Nr		1	
Functional data				•	
IEC/EN category	Type / Class			1+2 / I+II	
Protective elements				High energy MOV	
Mechanical characteristics		'		·	
Terminal screw torque		Mmax	Nm	4,5	
Conductor cross section (max)		Solid, Stranded	mm²	35	
		1	AWG 2		2
		Flexible	mm ²	25	
		1	AWG	4	
Mounting				35 mm DIN rail, EN 60715	
Degree of protection				IP20 (built-in)	
Housing material				Thermoplastic	
riousing material				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
			Α	-	0,5 / 0,2
		DC	V	-	250 / 75
			Α	-	0,1 / 0,5
	Conductor cross section (max)		mm²	-	1,5
			AWG	-	16
Dimensions (W-D-H)			mm	54 x 81 x 90	54 x 81 x 96
Weight			g	44	44,7
Ambient conditions					
Permissible operating humidity			%HR	5 ÷ 95	
Operating temperature		Ta	°C	-40 ÷ +70	
Atmospheric pressure and altitude			k Pa	80 ÷ 106	
			m	-500 / 2000	
Installation				Indoor	
	1	1			



Surge Protective Device (SPD) for PV applications, DC side, T1+2/ Class I+II (IEC 61643-31), of the voltage limiting type with metal oxide varistor technology (MOV) associated with a thermal disconnection device (overtemperature).

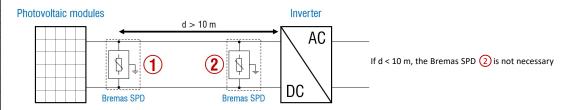
Characteristics

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

Application

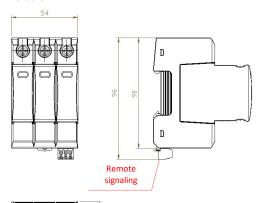
Suitable for protection against low-intensity direct lightning strikes and induced overvoltages. Typically installed inside string boxes and/or combiner boxes and/or inverter for PV applications.

Mounting tips

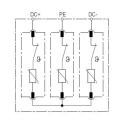


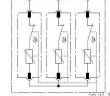
Dimensions

Dimensions in mm



Electrical circuit







SAPV060T12

@2025 Copyright Bremas Ersce. Subject to change without notice and errors excepted. Data reported in this paper are carefully checked and represent typical values of series production. The descriptions of the device and its applications, contexts of use, details of external controls, information on installation and operation are provided to the best of our knowledge. In any case, this does not mean from the features described it may derive legal responsibilities that extend beyond the "Terms and Conditions of sales" of Bremas Ersce. The customer / user must examine our information and recommendations and the relevant technical regulations before using the products its own purpose.