

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

SA40T12A1N032 - SA40T12A1N032R

				SA40T121N032	SA40T121N032R
Standards					•
Applicable Standards	Standards			IEC EN 61643-11	
Technical data					
Nominal AC Voltage (50/60 Hz)		Un	VAC	230	
Maximum continuous operating voltage	L-N	Uc	Vac	320	
	N-PE	Uc	Vac	255	
Nominal discharge current (8/20 μs)	L-N	[n	kA	20	
	N-PE	In	kA	25	
Maximum discharge current (8/20 μs)	L-N	[max	kA	5	0
Impulse discharge Current (10/350 μs)	N-PE	lmax	kA	50	
	L-N	limp	kA	12,5	
	N-PE	limp	kA	25	
Specific energy	L-N	W/R	kJ / Ω	36	
	N-PE	W/R	kJ / Ω	156	
Charge	L-N	Q	As	6,25	
	N-PE	Q	As	12,5	
Voltage protection level	L-N	Up	kV	1,6	
	N-PE	Up	kV	1,5	
Follow current Interrupt Rating	N-PE	l fi	Arms	100	
Response time	L-N	t ^A	ns	< 25	
	N-PE	t _A	ns	< 100	
Back-up fuse (max)	gL / gG		A	160	
Short-circuit current rating	L-N	sccr	kA	25 / 50	
TOV withstand 5s	L-N	Ut	V	335	
TOV 120min	L-N	Ut	V	440	
TOV		mode	.,	Safe fail 1200	
TOV withstand 200ms	N-PE	Ut	V	1200	
Number of ports		Nr			1
Functional data	F (0)	1 1			/ · · · ·
IEC/EN category	Type / Class			1+2 / I+II	
Protective elements				High energy MOV and GDT L-N / N-PE	
Protection mode				L-N /	N-PE
Mechanical characteristics	I	1 1	N		-
Terminal screw torque Conductor cross section (max)		Mmax	Nm 2	4,5	
		Solid, Stranded	mm²	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 Contact	Switching capacity	AC	V	-	250 / 125
			A	-	0,5 / 0,2
		DC	V	-	250 / 75
	Conductor cross section (max)		A	-	0,1 / 0,5
			mm²	-	1,5
			AWG	-	16
Dimensions (W-D-H)			mm	36 x 81 x 90	36 x 81 x 96
Weight			g	25,25	25,8
Ambient conditions	ı		- 4		
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	

Surge Protective Device (SPD) for AC applications, engineered to protect low-voltage distribution boards against atmospheric surges. Certified as Type 1+2 / Class I+II according to IEC 61643-31 standards, it combines Metal Oxide Varistors (MOV) with Gas Discharge Tubes (GDT) to ensure superior surge discharge performance.

Characteristics

• It allows replacement of plugs with the system powered on.

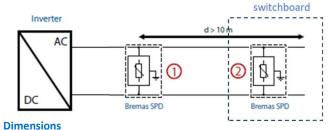
Main LV

- 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

Ideal for protection against induced and conducted surges. Recommended for installation inside string boxes, combiner boxes, and inverter AC distribution panels for photovoltaic and general low-voltage applications.

Mounting tips



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

Electrical circuit

Dimensions in mm

