

#### Bremas Ersce S.p.A.

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ISO 9001 Certified Quality System

## SA40T121N032 - SA40T121N032R

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				SA40T121N032	SA40T121N032F
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	50	
	N-PE	max	kA	50	
Impulse discharge Current (10/350 μs)	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	lfi	Arms	100	
Response time	L-N	tA	ns	< 25	
	N-PE	t <sub>A</sub>	ns	< 100	
Back-up fuse (max)	gL / gG	0.	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	
	L-1N	mode	V		
TOV withstand 200ms	N-PE	Ut	V	Safe fail 1200	
Number of ports	IN-FL	Nr	V	1	
Functional data		I INI			•
IEC/EN category	Type / Class			1±2	/ I+II
Protective elements	Type / Class			High energy MOV and GDT	
Protection mode				L-N / N-PE	
Mechanical characteristics				L-IN /	IN-FL
		Mmax	Nm	1	,5
Terminal screw torque Conductor cross section (max)		Solid, Stranded	mm <sup>2</sup>	35	
		Joliu, Julanueu			
			AWG	2	
		Flexible	mm <sup>*</sup>	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
			Α	-	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					
Danasiasible anamatica bunaidit.			%HR	5 ÷ 95	
Permissible operating numberly				-40 ÷ +70	
Permissible operating humidity Operating temperature		Ta	°C	-40 ÷	÷ +70
		Ta	°C k Pa	80 ÷	106
Operating temperature		Та		80 ÷	

#### **Description**

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.

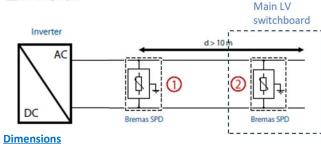
### **Characteristics**

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

