

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

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# SA40T123N032 - SA40T123N032R



				SA40T123N032	SA40T123N032R
Standards					
Applicable Standards				IEC EN 61643-11	
Technical data					
Nominal AC Voltage (50/60 Hz)		Un	VAC	230	
Maximum continuous operating voltage		Uc	VAC	320	
	N-PE	Uc	VAC	255	
Nominal discharge current (8/20 μs)	L-N	[n	kA	20	
	N-PE	[n	kA	25	
Maximum discharge current (8/20 μs)	L-N	Imax	kA		50
	N-PE	[max	kA	100	
Impulse discharge Current (10/350 μs)	L-N	limp	kA	12,5	
	N-PE	limp	kA	50	
Specific energy	L-N	W/R	kJ / Ω	39	
	N-PE	W/R	kJ/Ω	625	
Charge	L-N	Q	As	6,25	
l l	N-PE	Q	As	25	
Voltage protection level	L-N	Up	kV	1,6	
	N-PE	Up	kV	1,5	
Follow current Interrupt Rating	N-PE	Ifi	Arms	100	
Response time	L-N	ta ta	ns	< 25	
	N-PE			< 100	
		t <sub>A</sub>	ns		
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	
		mode		Safe fail	
TOV withstand 200ms	N-PE	Ut	V		200
Number of ports		Nr		1	
Functional data					
IEC/EN category	Type / Class			1+2 / I+II	
Protective elements				High energy MOV and GDT	
Protection mode				L-N / N-PE	
Mechanical characteristics					
Terminal screw torque		Mmax	Nm	4,5	
Conductor cross section (max)  Mounting		Solid, Stranded	mm²	35	
			AWG	2	
		Flexible	mm²	25	
		riexible	AWG	4	
			AWG	35 mm DIN rail, EN 60715	
Degree of protection				IP20 (built-in)	
Housing material				Thermoplastic	
The second Development				Extinguishing Degree UL 94 V-0	
Thermal Protection				Yes Green ok / Red defect	
Operating State / Fault Indication	S. Mahira and H	1			
Remote Contact	Switching capacity	AC	V	-	250 / 125
			A	-	0,5 / 0,2
		DC	V	-	250 / 75
			Α,	-	0,1 / 0,5
	Conductor cross section (max)		mm <sup>2</sup>	-	1,5
			AWG	-	16
Dimensions (W-D-H)			mm	72 x 81 x 90	72 x 81 x 96
Weight			g	54	54.9
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					loor
				1110001	



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

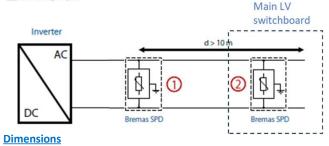
# Characteristics

- 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.

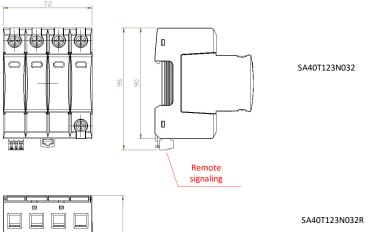
# Mounting tips

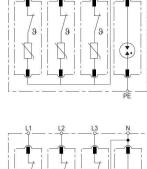


If d < 10 m, the Bremas SPD (2) is not necessary

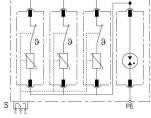
# **Electrical circuit**

Dimensions in mm









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