

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

SA40T2A1N032 - SA40T2A1N032R



				SA40T2A1N032	SA40T2A1N032R
Standards					
Applicable 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	In	kA	20	
	N-PE	[n	kA	20	
Maximum discharge current (8/20 μs)	L-N	Imax	kA	40	
Impulse discharge Current (10/350 μs)	N-PE	[max	kA	40	
	L-N	[imp	kA	-	
	N-PE	limp	kA	-	
Specific energy	L-N	W/R	kJ / Ω	-	
	N-PE	W/R	kJ / Ω	-	
Charge	L-N	Q	As		-
	N-PE	Q	As	-	
Voltage protection level	L-N	Up	kV	1,6	
F-II	N-PE	Up	kV	1,5	
Follow current Interrupt Rating	N-PE	lfi	Arms	100	
Response time	L-N N-PE	ta	ns	< 25	
	gL / gG	t _A	ns	< 100 125	
Back-up fuse (max) Short-circuit current rating	L-N	Isccr	A kA	25 / 50	
TOV withstand 5s	L-N	Ut	V	335	
TOV 120min	L-N	Ut	V	440	
	L-IN	mode	V	Safe fail	
TOV withstand 200ms	N-PE	Ut	V	1200	
Number of ports	N-1 L	Nr	v	1200	
Functional data					
IEC/EN category	Type / Class			2	/ II
Protective elements	1,1,50,0000			High energy MOV and GDT	
Protection mode					N-PE
Mechanical characteristics	•	·		,	
Terminal screw torque		Mmax	Nm	4,5	
Conductor cross section (max)		Solid, Stranded	mm²	35	
		,	AWG	2	
		Flexible	mm ²	25	
		TICAIDIC	AWG	4	
Mounting			7,000	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
			А	-	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	36 x 67 x 90	36 x 67 x 96
Weight			g	19	19,3
Ambient conditions	_				
		1	%HR	5 ÷ 95	
Permissible operating humidity					
Permissible operating humidity Operating temperature		Та	°C	-40 ÷	÷ +70
Permissible operating humidity		Та	°C k Pa	-40 ÷	÷ +70 · 106
Permissible operating humidity Operating temperature		Та	°C	-40 ÷ 80 ÷ -500 /	÷ +70

<u>Description</u>

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.

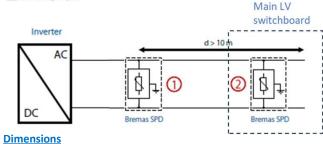
Characteristics

- 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.

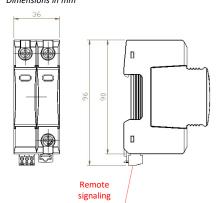
Mounting tips



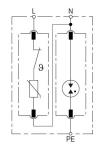
If d < 10 m, the Bremas SPD (2) is not necessary

Electrical circuit

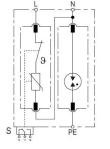
Dimensions in mm



SA40T2A1N032



SA40T2A1N032R





@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 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.