

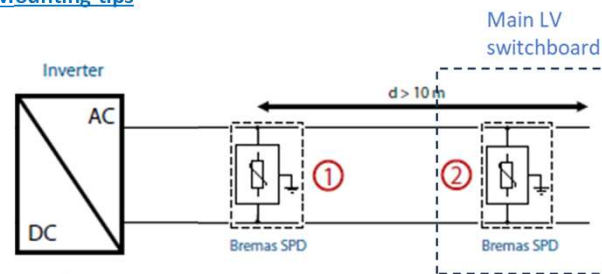
SA40T12A3N032 - SA40T12A3N032R



					SA40T123N032	SA40T123N032R
Standards					IEC EN 61643-11	
Technical data						
Nominal AC Voltage (50/60 Hz)		U _n	V _{AC}		230	
Maximum continuous operating voltage	L-N	U _c	V _{AC}		320	
	N-PE	U _c	V _{AC}		255	
Nominal discharge current (8/20 μs)	L-N	I _n	kA		20	
	N-PE	I _n	kA		25	
Maximum discharge current (8/20 μs)	L-N	I _{max}	kA		50	
	N-PE	I _{max}	kA		100	
Impulse discharge Current (10/350 μs)	L-N	I _{imp}	kA		12,5	
	N-PE	I _{imp}	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	
	N-PE	Q	As		25	
Voltage protection level	L-N	U _p	kV		1,6	
	N-PE	U _p	kV		1,5	
Follow current Interrupt Rating	N-PE	I _{fi}	A _{rms}		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	I _{scrr}	kA		25 / 50	
TOV withstand 5s	L-N	U _t	V		335	
		U _t	V		440	
TOV withstand 200ms	N-PE	mode			Safe fail	
		U _t	V		1200	
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		M _{max}	Nm		4,5	
Conductor cross section (max)	Solid, Stranded		mm ²		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	
Thermal Protection					Extinguishing Degree UL 94 V-0	
Operating State / Fault Indication					Yes	
Remote Contact	Switching capacity	AC	V	-	250 / 125	
			A	-	0,5 / 0,2	
		DC	V	-	250 / 75	
			A	-	0,1 / 0,5	
	Conductor cross section (max)		mm ²	-	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		T _a	°C		-40 ÷ +70	
Atmospheric pressure and altitude			k Pa		80 ÷ 106	
			m		-500 / 2000	
Installation					Indoor	



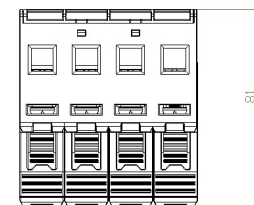
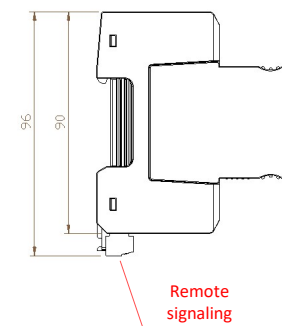
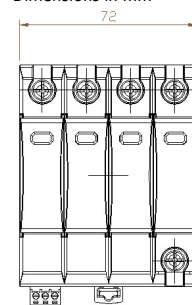
Mounting tips



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

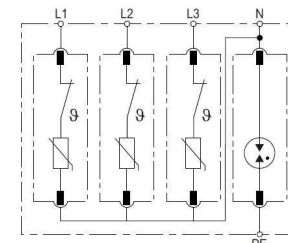
Dimensions

Dimensions in mm

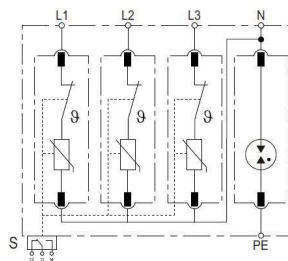


Electrical circuit

SA40T123N032



SA40T123N032R



Description

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.