

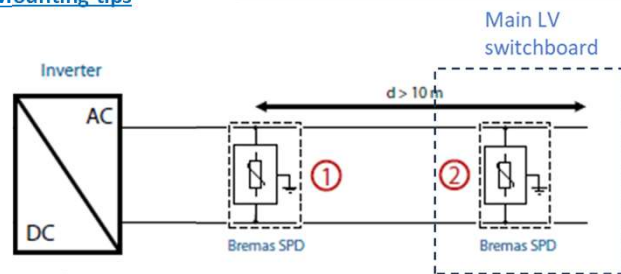
SA40T2A1N032 – SA40T2A1N032R



					SA40T2A1N032	SA40T2A1N032R
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	20		
Maximum discharge current (8/20 µs)	L-N	I _{max}	kA	40		
	N-PE	I _{max}	kA	40		
Impulse discharge Current (10/350 µs)	L-N	I _{imp}	kA	-		
	N-PE	I _{imp}	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	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	125		
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 120min	L-N	mode		Safe fail		
TOV withstand 200ms	N-PE	U _t	V	1200		
Number of ports		Nr		1		
Functional data						
IEC/EN category	Type / Class			2 / 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		
				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	
			A	-	0,1 / 0,5	
	Conductor cross section (max)		mm ²	-	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						
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		



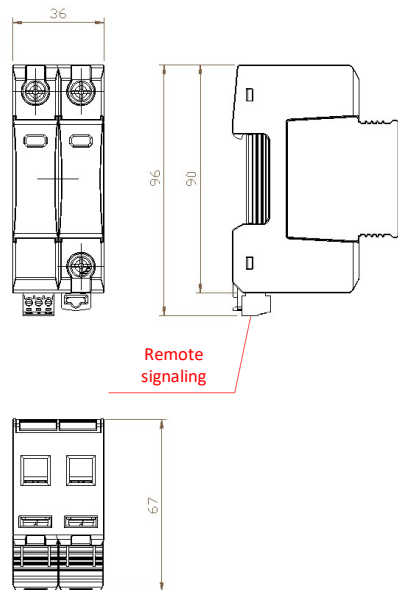
Mounting tips



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

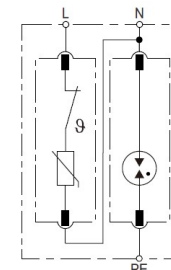
Dimensions

Dimensions in mm

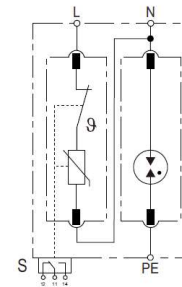


Electrical circuit

SA40T2A1N032



SA40T2A1N032R



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.