

Type 2 surge arrester - PRT-PV-1000 - 2908900


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Integrated onboard lightning arrester, according to Type 2/Class II, used for MPPT protection of single and multiple circuits



Key Commercial Data

Packing unit	1
GTIN	 4 055626 354804
GTIN	4055626354804
Custom tariff number	85363030

Technical data

Dimensions

Height	52.4 mm
Width	17.5 mm
Depth	49 mm

Ambient conditions

Degree of protection	IP00
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 5000 m (amsl (above mean sea level))
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	25g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (10-500 Hz/2.5 h/XYZ)

General

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Technical data

General

EN type	T2
SPD failure behavior	OCM
Installation location	Interior
Accessibility	Accessible
Installation location of the disconnect device	Internal
Mounting type	PCB mounting
Color	traffic grey A RAL 7042
Housing material	PA 6.6-FR
Degree of pollution	2
Distance between live and grounded parts	8.2 mm
Flammability rating according to UL 94	V-0
Type	PCB onboard surge protector

Protective circuit DC voltage side (DC)

Maximum continuous operating voltage U_{CPV}	585 V DC (single item)
	1170 V DC (2 serial connections)
Short-circuit current rating I_{SCPV}	2000 A
Continuous operating current I_{CPV}	< 100 μ A
Residual current I_{PE}	\leq 100 μ A
Standby power consumption P_C	\leq 125 mVA
Nominal discharge current (8/20) μ s	20 kA
Maximum discharge current I_{max} (8/20) μ s	40 kA
Total discharge current I_{total} (8/20) μ s	40 kA
Voltage protection level U_p	\leq 1.9 kV (single item)
	\leq 3.75 kV (2 serial connections)
Residual voltage U_{res}	\leq 1.9 kV (at I_n)
	\leq 2.4 kV (at 40 kA)
Response time t_A	\leq 25 ns
Insulation resistance R_{iso}	> 5 G Ω (at 500 V DC)

Indicator/remote signaling

Switching function	normal/deterioration
Operating voltage	30 V AC
	30 V DC
Operating current	1 A AC
	1 A DC

UL specifications

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Technical data

UL specifications

SPD Type	4CA
Maximum continuous operating voltage MCOV	585 V DC (Ld-Ld)
Nominal voltage	485 V DC
Mode of protection	Ld-Ld
Measured limiting voltage MLV	1900 V
Nominal discharge current I_n	20 kA

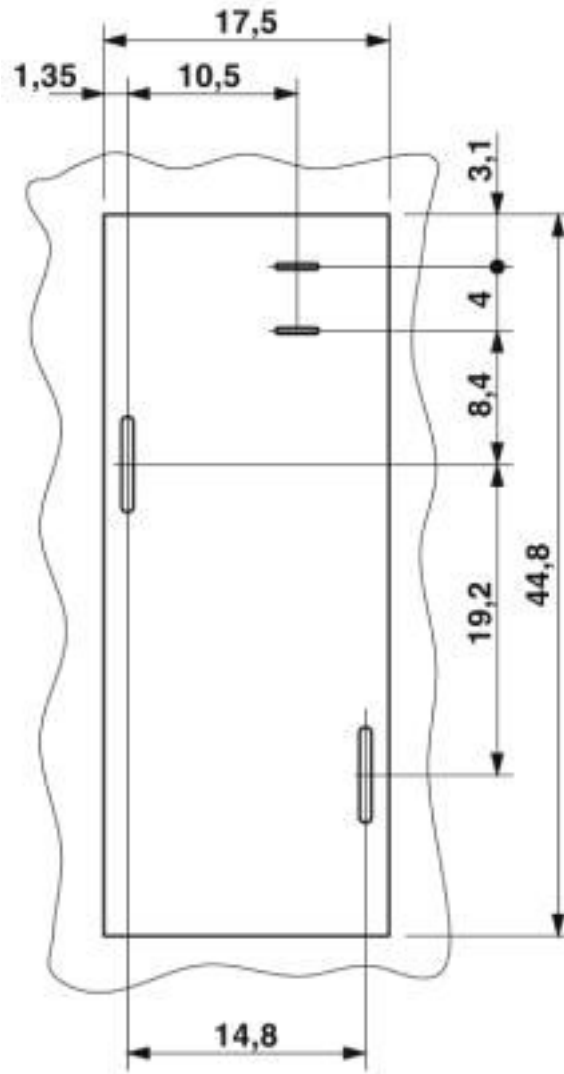
Standards and Regulations

Standards/regulations	EN 50539-11 2013
	NB/T 32004/GF 026: 2013

Drawings

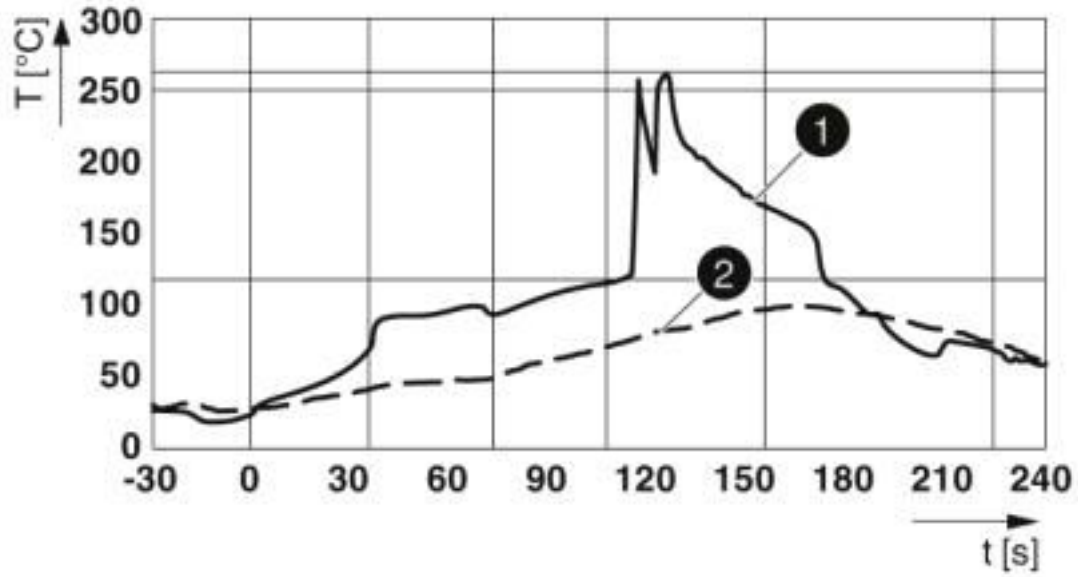
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Drilling diagram

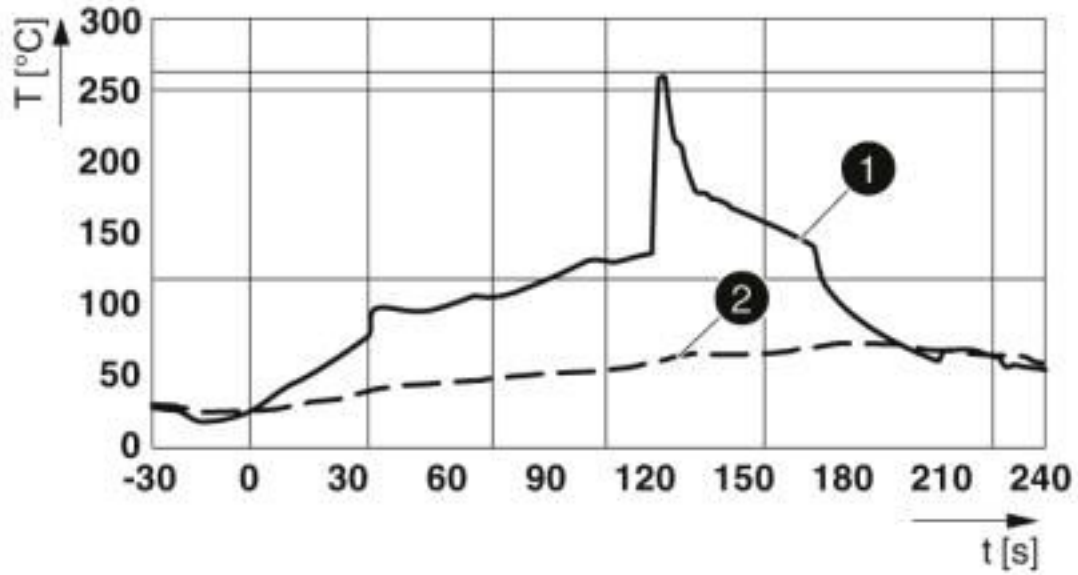


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Diagram

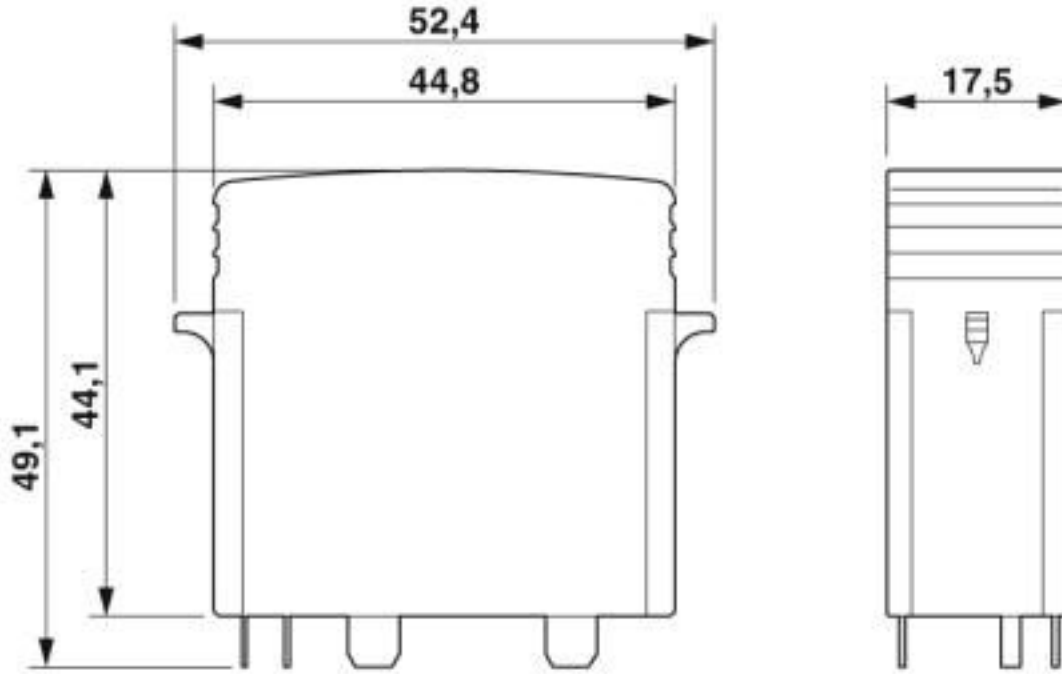


Diagram



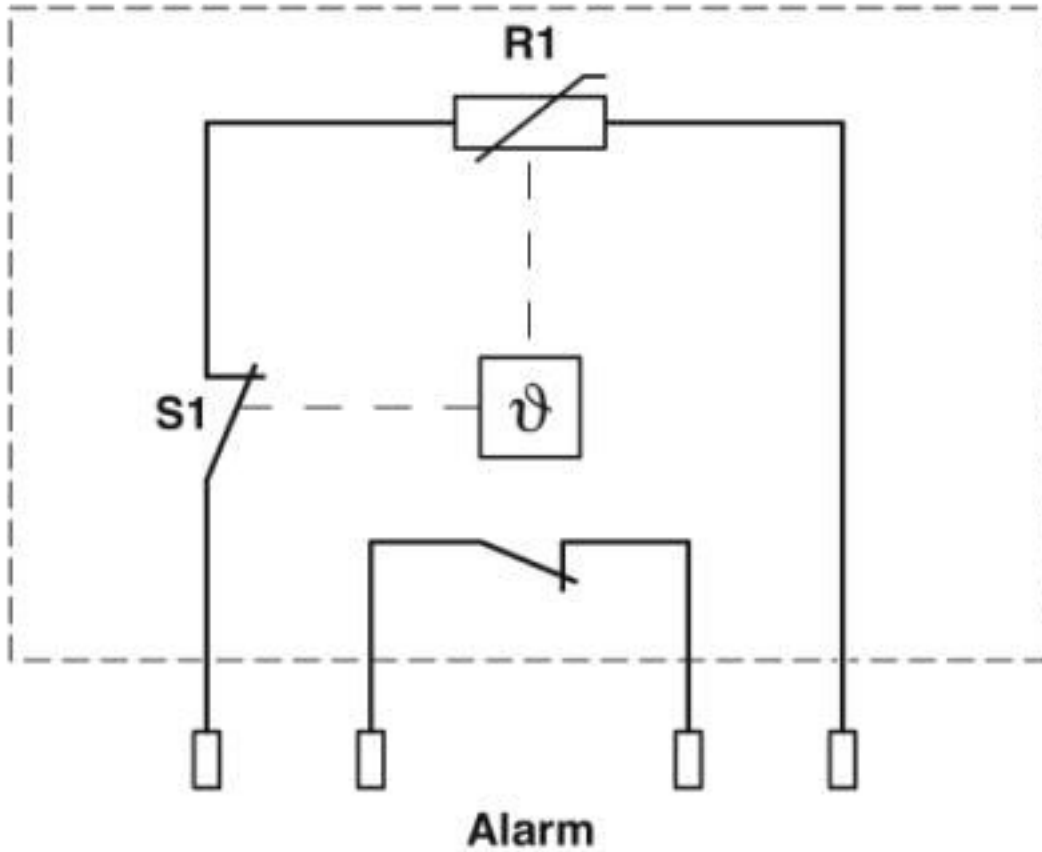
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Dimensional drawing



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Circuit diagram



Classifications

eCl@ss

eCl@ss 10.0.1	27130805
eCl@ss 6.0	27130800
eCl@ss 7.0	27130805
eCl@ss 8.0	27130805
eCl@ss 9.0	27130805

ETIM

ETIM 5.0	EC000941
ETIM 6.0	EC000941
ETIM 7.0	EC000941

