

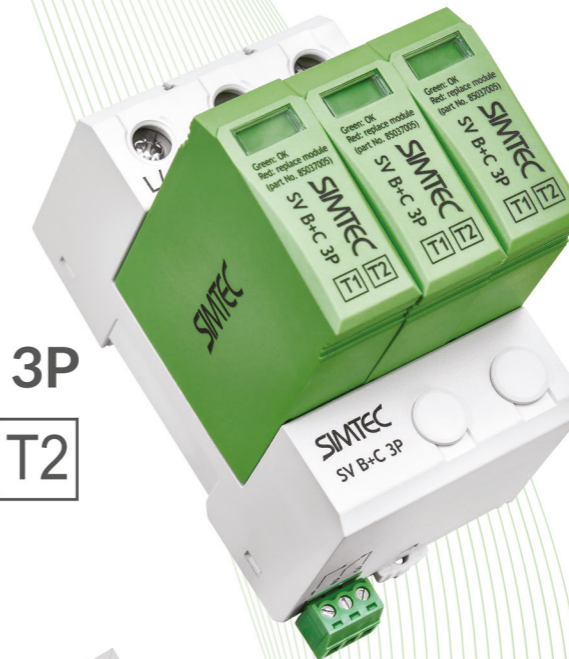
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## SURGE ARRESTERS FOR PHOTOVOLTAICS



SV B+C 3P  
PV T1 T2



SVC 3P  
PV T2



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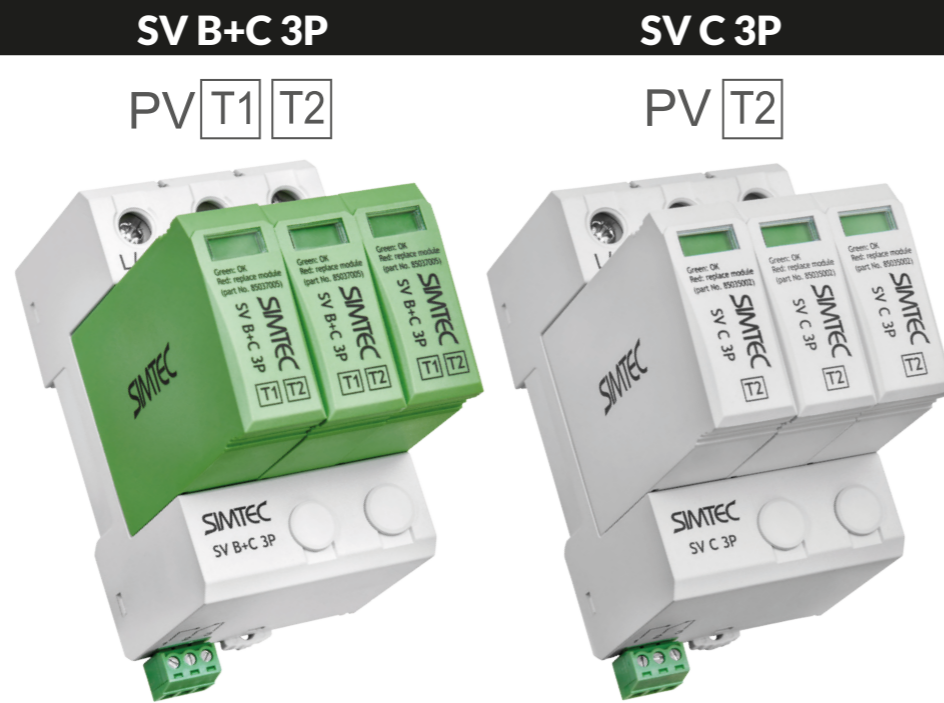
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**SIMTEC**



SYLWESTER KALISKI INSTITUTE  
OF PLASMAPHYSICS AND LASER MICROFUSSION

The single-stage surge arresters SV C 3P PV T2 and the two-stage surge arresters SV B+C 3P PV T1 T2 are used to protect against the direct and indirect effects of lightning discharges or other transient surges. These surge arresters are intended for connection to the DC side of photovoltaic installations with a voltage range up to 1000 V. The devices include a nonlinear element (varistor) and they are designed to limit impulse voltages and reverse surge currents. They are intended only for installation on the DC side of photovoltaic generators and the DC side of inverters.



Catalogue No.	85 036 002	85 034 002
Collective packaging	1 pcs	1 pcs

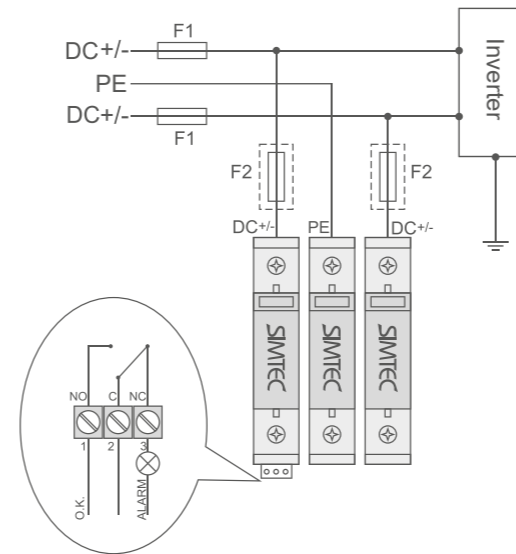
### Electrical parameters

Rated voltage of the photovoltaic system DC ( $U_{npv}$ )	1000 V DC	1000 V DC
Maximum continuous operating voltage of the photovoltaic system DC ( $U_{opv}$ )	1060 V DC	-
Impulse current ( $I_{imp, 10/350}$ )	6,25 kA	-
Rated discharge current ( $8/20$ , $I_n$ )	20 kA	20 kA
Max. discharge current ( $8/20$ , $I_{max}$ )	40 kA	40 kA
Voltage protection level ( $U_p$ )	$\leq 4.5$ kV	$\leq 4.5$ kV
Response time ( $t_A$ )	<25 ns	<25 ns
Permissible humidity ( $R_h$ )	30 % ÷ 90 %	30 % ÷ 90 %
Insulation resistance ( $R_{iso}$ )	> 100 M $\Omega$	> 100 M $\Omega$
Maximum additional fuse (gL/gG)	160 A	125 A
Frequency (f)	48 ÷ 62 Hz	48 ÷ 62 Hz
Remote fault signalling	yes	yes
Compliance with standards	EN 61643-31:2019-07E in accordance with the directive 2014/35/UE	EN 61643-31:2019-07E in accordance with the directive 2014/35/UE

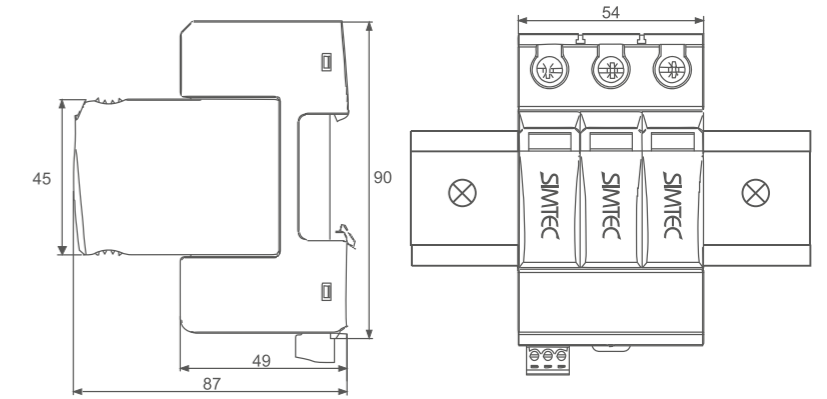
### Mechanical parameters

Cross-section of connected wires: - solid - flexible	2,5 ... 35 mm <sup>2</sup> 2,5 ... 25 mm <sup>2</sup>	2,5 ... 35 mm <sup>2</sup> 2,5 ... 25 mm <sup>2</sup>
Housing material	PA66, UL94 V0	PA66, UL94 V0
Status indicator	optical, red when damaged	optical, red when damaged
Fixed mounting to the rail	TS 35	TS 35
Operating temperature range	-40 °C ... +85 °C	-40 °C ... +85 °C
Protection class	IP20	IP20
Fork connection rail	modular spacing 18 mm	modular spacing 18 mm
Thermal disconnecter	yes	yes
Wire cross-section of remote signalling	max 1,5 mm <sup>2</sup> (solid wire, stranded wire)	max 1,5 mm <sup>2</sup> (solid wire, stranded wire)

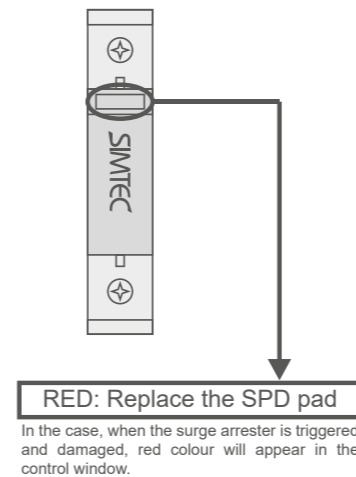
### Connection



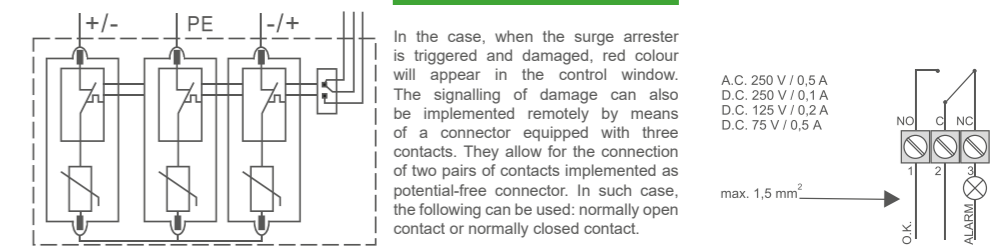
### Dimensions



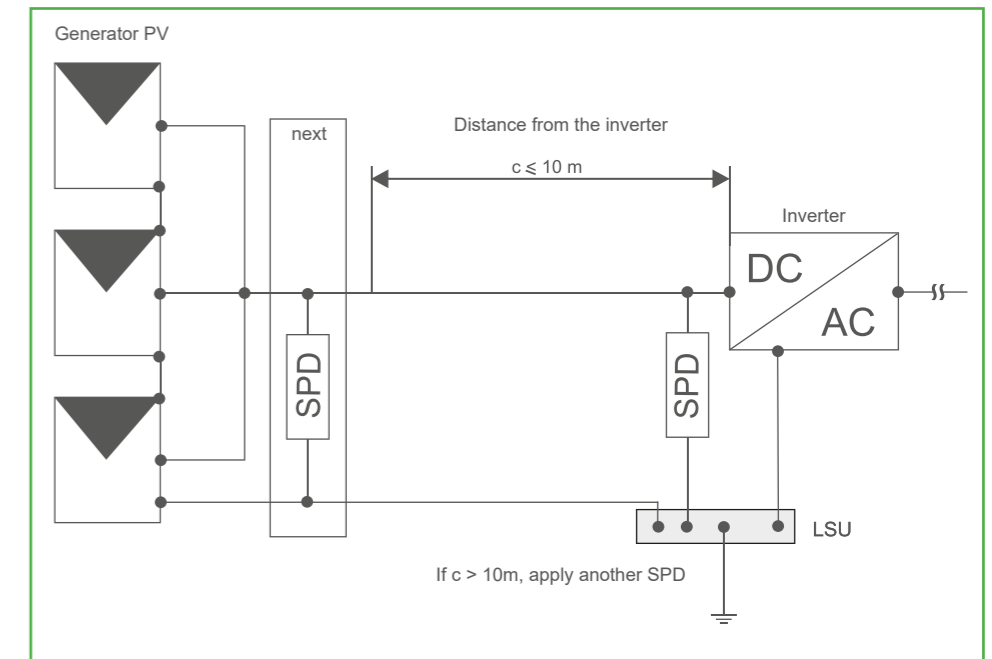
### Indicator



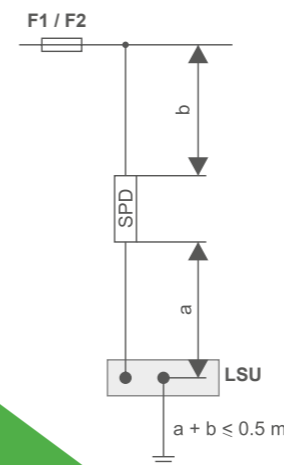
### Remote Signalling



### Protection



### Installation



### Markings



A = MOV