

# SIMTEC

## SURGE ARRESTER

**BASED ON SPARK GAP**

### SI50B+C

Tested for lightning surge strength in accordance with the PN-EN 61 643-11:2013-06 standard:



Sylwester Kaliski Institute of Plasma  
Physics and Laser Microfusion

Two-stage surge arresters (type 1 + 2) are used to equalise potentials in the power installation, resulting from atmospheric overvoltages, and in the scope of protection against internal overvoltages in the power supply network. They are mainly used in the NN installations of such facilities as residential and office buildings. They are installed in the cable connectors or main switchboards.

Distribution:  
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Tel. +48 75 64 71 481  
orders : [export@simet.com.pl](mailto:export@simet.com.pl)



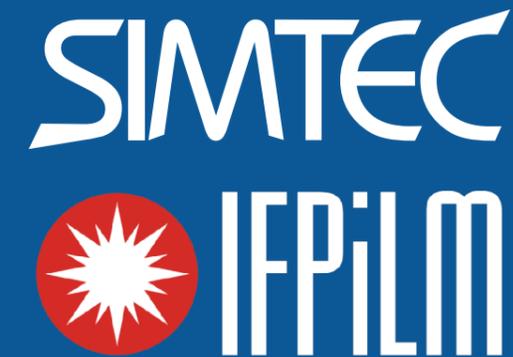
type 1 + 2



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**NEW**  
IN THE OFFER



July 2019

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### Electrical parameters:

Rated voltage AC ( $U_n$ )	230V
Pulsed current $I_{imp}$ (10/350 $\mu$ s) [L, N-PE]	12,5kA
Pulsed current $I_{imp(total)}$ (10/350 $\mu$ s) [L1+L2+L3+N-PE]	50kA
Nominal discharge current (8/20 $\mu$ s) $I_n$	30kA
Maximum discharge current (8/20 $\mu$ s) $I_{max}$	60kA
Voltage protection level $U_p$	$\leq 1,5kV$
Response time (tA)	< 25ns
Permissible humidity ( $R_h$ )	5%-95%
Insulation resistance ( $R_{isol}$ )	> $10^9 M\Omega$
Maximum additional fuse gL/gG	125A
Frequency (f)	40...63Hz
Remote signalling of damage	YES
Compliance with the standards	EN 61643-11:2012 (PN-EN 61643-11:2013-06), according to the directive 2014/35/UE

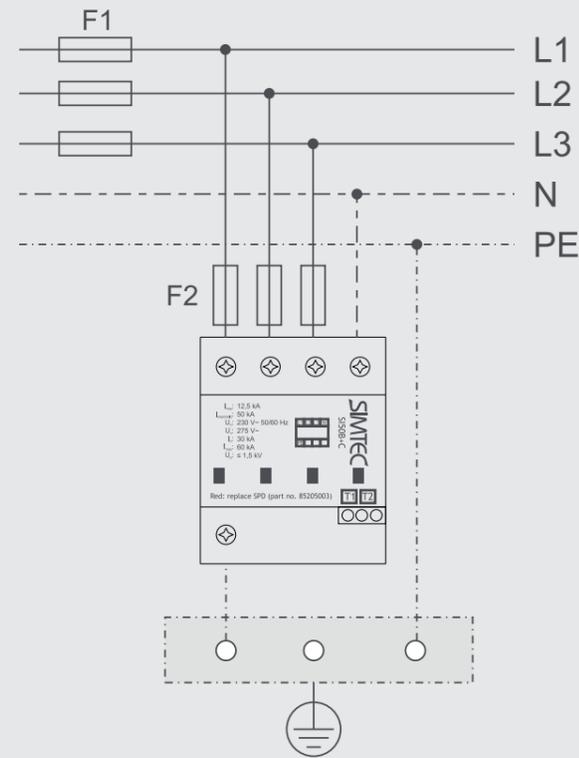
Catalogue Number:  
**85205003**

### Mechanical parameters:

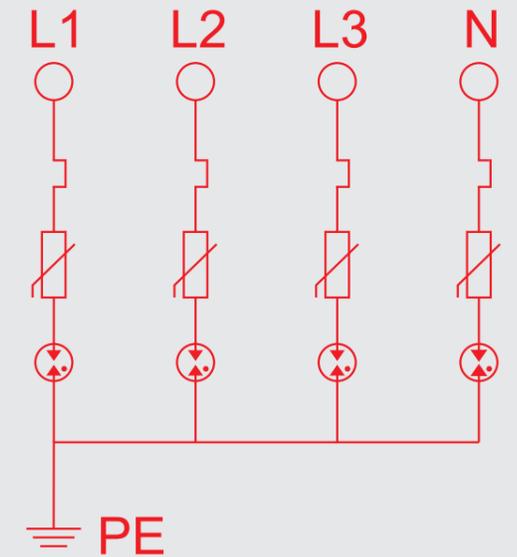
Cross-section of connected solid / flexible wires	2,5...35mm <sup>2</sup> / 2,5...25mm <sup>2</sup>
Housing material	PA66, UL 94 V-0
Insert status indicator	optical, red when damaged
Assembly	fixed to the rail TH35
Protection marking	IP20
Operating temperature range	-40°C...+85°C
Connecting fork rail	(16mm <sup>2</sup> ) modular distance 18mm
Thermal disconnect device	YES
Cross-section of remote signalling wires	max 1,5mm <sup>2</sup> (wire, cord)



### Application in 3-phase systems

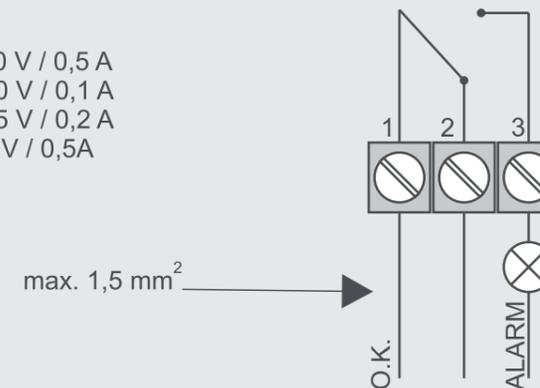


### Internal schema

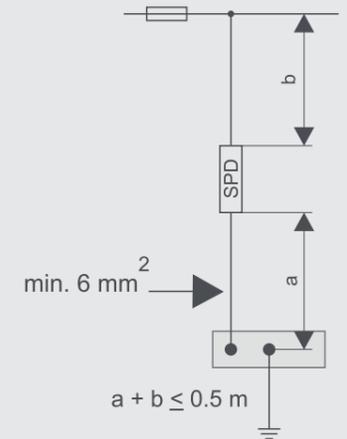


### Remote signalling

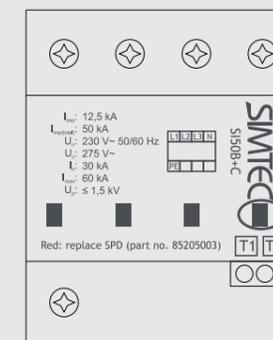
A.C. 250 V / 0,5 A  
D.C. 250 V / 0,1 A  
D.C. 125 V / 0,2 A  
D.C. 75 V / 0,5 A



### Installation



### Indicators



CZERWONY: wymień SPD  
RED: replace SPD  
КРАСНЫЙ: заменить SPD

