

# FLP-SG50 VS/1

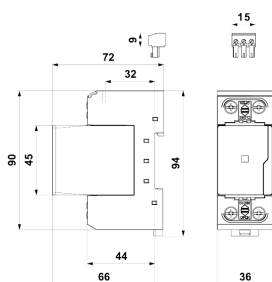
Ordering number 8595090540533

## SPD type 1 - Lightning Current Arrester

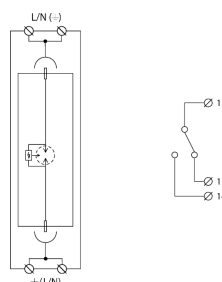
pluggable module, visual fault signalling, module locking, remote fault signalling  
encapsulated high-performance spark gap, installation at the boundary of zones LPZ 0 and LPZ 1 or higher, mainly to main distribution boards, for protection against impact of direct or indirect lightning strikes in the hardest application in heavy, chemical and energy industry, coordination with SPD type 2 (SLP-275 V) even without surge separating inductors



### Dimension drawing



### Basic circuit diagram



## Technical specifications

<b>Type of SPD</b>		T1
<b>Nominal voltage</b>	$U_n$	230 V AC
<b>Maximum operating voltage</b>	$U_c$	255,00 V AC
<b>Nominal load current for "V" connection</b>	$I_L$	125 A
<b>Lightning impulse current (10/350 <math>\mu</math>s)</b>	$I_{imp}$	50,00 kA
<b>Nominal discharge current (8/20 <math>\mu</math>s)</b>	$I_n$	50,00 kA
<b>Voltage protection level</b>	$U_p$	2,50 kV
<b>Ability to independently switch off the following current</b>	$I_{fi}$	50,0 kA
<b>Short-circuit current rating</b>	$I_{SCCR}$	50,0 kA
<b>Maximum overcurrent protection</b>		315 A gL/gG
<b>Maximum overcurrent protection for "V" connection</b>		125 A gL/gG
<b>Response time</b>	$t_a$	100 ns
<b>TOV 5 s L-N</b>		335 V
<b>TOV 5 s L-PE</b>		440 V
<b>TOV characteristic (TOV 5 s)</b>		withstand
<b>TOV 120 min L-N</b>		440 V
<b>TOV 120 min L-PE</b>		335 V
<b>TOV characteristic (120 min)</b>		withstand
<b>Cross-section of connected conductors solid (min)</b>		2,50 mm <sup>2</sup>
<b>Cross-section of connected conductors solid (max)</b>		50,00 mm <sup>2</sup>
<b>Cross-section of connected conductors stranded (min)</b>		2,50 mm <sup>2</sup>
<b>Cross-section of connected conductors stranded (max)</b>		35,00 mm <sup>2</sup>
<b>Fault indication</b>		red indication field
<b>Remote indication</b>		potential-free change-over contact
<b>Remote indication contacts</b>		250V/0,5A AC, 250V/0,1A DC
<b>Cross-section of remote indication conductors</b>		1,5 mm <sup>2</sup>
<b>Degree of protection</b>		IP 20
<b>Range of ambient temperatures - min</b>		-40 °C
<b>Range of ambient temperatures - max</b>		80 °C
<b>Mounting</b>		DIN rail 35 mm
<b>According to standard</b>		EN 61643-11:2012, IEC 61643-11:2011
<b>Plug module</b>		FLP-SG50 VS/0
<b>ETIM Class</b>		EC000381