

# FLP-12,5 V/3S+1

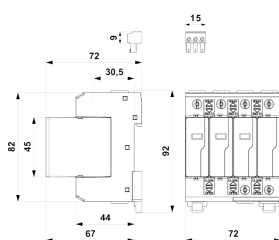
Ordering number A03428

## SPD type 1 and type 2- Lightning Current Arrester and Surge Arrester

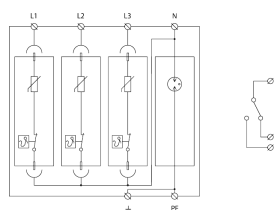
pluggable module, visual fault signalling, module locking, remote fault signalling  
 combination of varistor lightning current arrester and encapsulated efficiency spark gap, connected in the 3+1 mode, installation at the boundary of zones LPZ 0 and LPZ 1 or higher, for objects in LPL III and IV, for protection against impact of partial lightning currents, induced overvoltages during a lightning strike or switching overvoltages



Dimension drawing



Basic circuit diagram



## Technical specifications

Type of SPD		T1,T2
Nominal voltage	$U_n$	230 V AC
Maximum operating voltage L-N	$U_c$	275,00 V AC
Maximum operating voltage N-PE	$U_c$	255,00 V AC
Lightning impulse current (10/350 $\mu$ s) L-N	$I_{imp}$	12,50 kA
Lightning impulse current (10/350 $\mu$ s) N-PE	$I_{imp}$	50,00 kA
Total discharge current (10/350 $\mu$ s)	$I_{Total(10/350)}$	50,00 kA
Nominal discharge current (8/20 $\mu$ s) L-N	$I_n$	30,00 kA
Nominal discharge current (8/20 $\mu$ s) N-PE	$I_n$	50,00 kA
Maximum discharge current (8/20 $\mu$ s) L-N	$I_{max}$	60,00 kA
Maximum discharge current (8/20 $\mu$ s) N-PE	$I_{max}$	100,00 kA
Voltage protection level at 5 kA L-N	$U_p$	0,90 kV
Voltage protection level mode L-N	$U_p$	1,50 kV
Voltage protection level mode N-PE	$U_p$	1,50 kV
Voltage protection level mode L-PE	$U_p$	1,50 kV
Short-circuit current rating	$I_{SCCR}$	50,0 kA
Maximum overcurrent protection		160 A gL/gG
Response time L-N	$t_a$	25 ns
Response time N-PE	$t_a$	100 ns
TOV 5 s L-N		335 V
TOV characteristic (TOV 5 s)		withstand
TOV 200 ms N-PE		1 200 V
TOV characteristic (TOV 200 ms)		withstand
Cross-section of connected conductors solid (min)		1,00 mm <sup>2</sup>
Cross-section of connected conductors solid (max)		35,00 mm <sup>2</sup>
Cross-section of connected conductors stranded (min)		1,00 mm <sup>2</sup>
Cross-section of connected conductors stranded (max)		25,00 mm <sup>2</sup>
Fault indication L-N		red indication field
Remote indication		potential-free change-over contact
Remote indication contacts		250V/0,5A AC,250V/0,1A DC
Cross-section of remote indication conductors		1,5 mm <sup>2</sup>
Degree of protection		IP 20
Range of ambient temperatures - min		-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-12,5 V/O
<b>ETIM Class</b>	EC001457