

# FLP-EV12,5-VBH/3S+1

## SPD - for low voltage / SPD type 1 / Combination type - T1+T2 (12,5 kA)

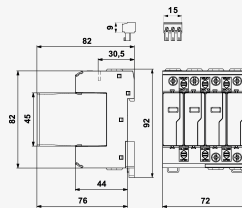
Combination of lightning current and surge arrester 3+1 for three-phase applications (eg. charging station for electrical vehicles)

pluggable module, visual fault signalling, remote fault signalling

- combination of one-pole 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 protection against impact of direct or indirect lightning strikes – eg. charging stations for electrical vehicles
- zero leakage current



### Product dimensions



### Basic circuit diagram



Parameter name		Parameter value
Type of SPD		T1,T2
Mounting		DIN rail 35 mm
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
Type of network		TT
Maximum overcurrent protection		160 A gL/gG
Short-circuit current rating	$I_{SCCR}$	50.0 kA
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
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 mode L-N	$U_p$	1.50 kV

Voltage protection level mode N-PE	$U_p$	1.50 kV
Response time L-N	$t_a$	100 ns
Response time N-PE	$t_a$	100 ns
TOV 5 s L-N		335 V
TOV characteristic (TOV 5 s)		withstand
TOV 120 min L-N		440 V
TOV characteristic (120 min)		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>
Cross-section of remote indication conductors solid (max)		1.5 mm <sup>2</sup>
Cross-section of remote indication conductors stranded (max)		1.5 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
Degree of protection		IP 20
Range of ambient temperatures (min/max)		-40 / 80 °C
Humidity		5 - 95 %
According to standard		EN 61643-11:2012, IEC 61643-11:2011
ETIM Class		EC001457
Customs tariff number		85363030
EAN		8595090570493
Order number		A07049