

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

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

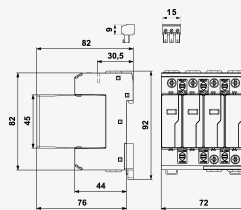
Combination of lightning current and surge arrester 3+1 for three-phase applications (eg. charging station for electrical vehicles)

pluggable module, visual fault signalling, remote fault signalling

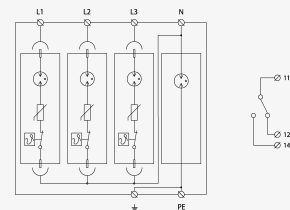
- combination of one-pole lightning current arrester and encapsulated efficiency spark gap, connected in the 3+1 mode
- installation at the boundary of zones LPZ 0 and LPZ 1 or higher
- for protection against impact of direct or indirect lightning strikes – eg. charging stations for electrical vehicles
- 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                              |