

# FLP-ZP2-12,5-VBH/3S+1

## SPD - for low voltage / SPD type 1 / 40 mm busbar system - T1+T2 (12,5 kA)

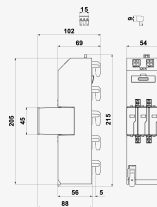
Combination of lightning current and surge arrester for systems TN and TT

pluggable module, visual fault signalling, module locking, terminals for supply, onto 40 mm busbar system, remote fault signalling

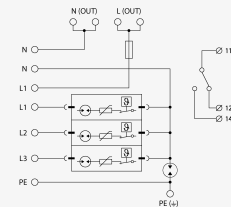
- high performance lightning current arrester, installation at the boundary of zones LPZ 0 and LPZ 1 or higher, mainly to main distribution boards upstream power meters
- for protection against impact of direct or indirect lightning strikes in wide range of applications – houses, office or industrial buildings, resp. to sub-distribution boards in large buildings
- protected supply of power meters assembly



Product dimensions



Basic circuit diagram



| Parameter name                                         |                     | Parameter value     |
|--------------------------------------------------------|---------------------|---------------------|
| Type of SPD                                            |                     | T1,T2,T3            |
| Mounting                                               |                     | 40 mm busbar system |
| Nominal voltage                                        | $U_n$               | 230 V AC            |
| Maximum operating voltage L-N                          | $U_c$               | 255.00 V AC         |
| Maximum operating voltage N-PE                         | $U_c$               | 255.00 V AC         |
| Nominal load current - auxiliary output terminals L, N |                     | 6.3 A               |
| Type of network                                        |                     | TN-S TT             |
| Maximum overcurrent protection                         |                     | 160 A gL/gG         |
| Short-circuit current rating                           | $I_{SCCR}$          | 25.0 kA             |
| Total discharge current (10/350 $\mu$ s)               | $I_{Total(10/350)}$ | 50.00 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           | $I_n$               | 20.00 kA            |
| Nominal discharge current (8/20 $\mu$ s) N-PE          | $I_n$               | 50.00 kA            |
| Test voltage                                           | $U_{oc}$            | 10.0 kV             |

|                                                                                |                          |                                     |
|--------------------------------------------------------------------------------|--------------------------|-------------------------------------|
| Total discharge current (8/20 $\mu$ s)                                         | $I_{\text{Total}(8/20)}$ | 100.00 kA                           |
| Maximum discharge current (8/20 $\mu$ s) L-N                                   | $I_{\text{max}}$         | 60.00 kA                            |
| Maximum discharge current (8/20 $\mu$ s) N-PE                                  | $I_{\text{max}}$         | 100.00 kA                           |
| Voltage protection level mode L-N                                              | $U_p$                    | 1.50 kV                             |
| Voltage protection level mode L-PE                                             | $U_p$                    | 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 5 s L-PE                                                                   |                          | 440 V                               |
| TOV characteristic (TOV 5 s)                                                   |                          | withstand                           |
| TOV 120 min L-N                                                                |                          | 440 V                               |
| TOV 120 min L-PE                                                               |                          | 335 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)                              |                          | 16.00 mm <sup>2</sup>               |
| Cross-section of connected conductors stranded (min)                           |                          | 1.00 mm <sup>2</sup>                |
| Cross-section of connected conductors stranded (max)                           |                          | 16.00 mm <sup>2</sup>               |
| Cross-section of connected conductors solid (max) - aux. out terminals L, N    |                          | 4.00 mm <sup>2</sup>                |
| Cross-section of connected conductors stranded (max) - aux. out terminals L, N |                          | 2.50 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                                                               |                          | 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                                                                     |                          | EC000381                            |

|                       |                          |
|-----------------------|--------------------------|
| Plug module           | <b>FLP-ZP-12,5-VBH/0</b> |
| Customs tariff number | <b>85363090</b>          |
| EAN                   | <b>8595090570332</b>     |
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SALTEK s.r.o., Drážďanská 561/85, 400 07 Ústí nad Labem, CZ | +420 475 655 511 | [info@saltek.cz](mailto:info@saltek.cz) | [www.saltek.eu](http://www.saltek.eu)

Technická podpora: 800 818 818 | [podpora@saltek.cz](mailto:podpora@saltek.cz)

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