# FLP-ZP2-7,5-VBH/3S+1

## SPD - for low voltage / SPD type 1 / 40 mm busbar system - T1+T2 (7,5 kA)

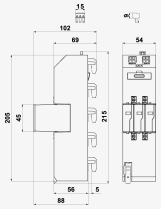
Combination of lightning current and surge arrester for systems TN and TT

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

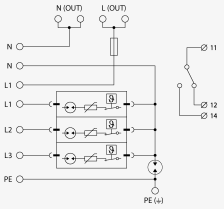
- high performance lightning current arrester, installation at the boundary of zones LPZ 0 and LPZ 1 or higher, mainly to main distribution boards upstream power meters
- for protection against impact of direct or indirect lightning strikes in wide range of applications – houses, office or industrial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



**Product dimensions**



**Basic circuit diagram**




| Parameter name | | Parameter value |
|---|---|---|
| Type of SPD | | T1,T2,T3 |
| Mounting | | 40 mm busbar system |
| Nominal voltage | $U_n$ | 230.00 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 µs) | $I_{Total(10/350)}$ | 30.00 kA |
| Lightning impulse current (10/350 µs) L-N | $I_{imp}$ | 7.50 kA |
| Lightning impulse current (10/350 µs) N-PE | $I_{imp}$ | 50.00 kA |
| Nominal discharge current (8/20 µs) L-N | $I_n$ | 20.00 kA |
| Nominal discharge current (8/20 µs) N-PE | $I_n$ | 50.00 kA |
| Test voltage | $U_{oc}$ | 10.0 kV |

| | | |
|---|---|---|
| Total discharge current (8/20 µs) | $I_{Total(8/20)}$ | 100.00 kA |
| Maximum discharge current (8/20 µs) L-N | $I_{max}$ | 60.00 kA |
| Maximum discharge current (8/20 µs) N-PE | $I_{max}$ | 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 $mm^2$ |
| Cross-section of connected conductors solid (max) | | 16.00 $mm^2$ |
| Cross-section of connected conductors stranded (min) | | 1.00 $mm^2$ |
| Cross-section of connected conductors stranded (max) | | 16.00 $mm^2$ |
| Cross-section of connected conductors solid (max) - aux. out terminals L, N | | 4.00 $mm^2$ |
| Cross-section of connected conductors stranded (max) - aux. out terminals L, N | | 2.50 $mm^2$ |
| Cross-section of remote indication conductors solid (max) | | 1.5 $mm^2$ |
| Cross-section of remote indication conductors stranded (max) | | 1.5 $mm^2$ |
| 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 | **FLP-ZP-7,5-VBH/0** |
| Customs tariff number | **85363090** |
| EAN | **8595090570295** |
| Order number | **A07029** |