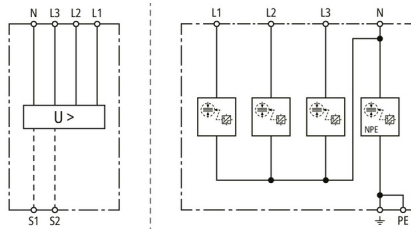


## SPD+POP 3P+N T1+2 (900 747)

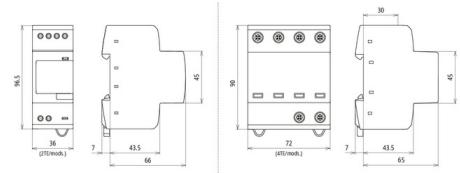
- Complete protection against transient and power frequency overvoltages
- Compact design allows easy retrofitting
- Meets the requirements of EN 61643-11 (SPD) and EN 63052 (POP)



Figure without obligation



Basic circuit diagram SPD+POP 3P+N T1+2



Dimension drawing SPD+POP 3P+N T1+2

### General

| Type                             | SPD+POP 3P+N T1+2                                           |
|----------------------------------|-------------------------------------------------------------|
| Part No.                         | 900 747 <small>NEW</small>                                  |
| Power supply system              | three-phase TT / TN system                                  |
| Nominal voltage (a.c.) ( $U_N$ ) | 230 / 400 V                                                 |
| Nominal frequency ( $f_N$ )      | 50 Hz                                                       |
| Cross-sectional area (min.)      | 0.5 mm <sup>2</sup> solid / fine-stranded                   |
| Cross-sectional area (max.)      | 2.5 mm <sup>2</sup> fine-stranded / 4 mm <sup>2</sup> solid |
| Degree of protection             | IP 20                                                       |
| For mounting on                  | 35 mm DIN rails acc. to EN 60715                            |
| Enclosure material               | Thermoplastic, grey, UL 94 V-0                              |
| Operating temperature range      | -5°C to +45°C                                               |
| Installation point               | Indoor                                                      |
| Dimensions                       | 6 Standard DIN module, DIN 43880                            |

### SPD

| Type                                                                        | SPD+POP 3P+N T1+2                                                 |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------|
| Part No.                                                                    | 900 747 <small>NEW</small>                                        |
| SPD according to EN 61643-11 / ... IEC 61643-11                             | type 1 + type 2 / class I + class II                              |
| Energy-coordinated protection effect with terminal equipment ( $\leq 10$ m) | Type 1 + Type 2 + Type 3                                          |
| Nominal AC voltage ( $U_N$ )                                                | 230 V (50 / 60 Hz)                                                |
| Max. continuous operating voltage (a.c.) [L-N] ( $U_C$ )                    | 255 V (50 / 60 Hz)                                                |
| Lightning impulse current (10/350 $\mu$ s) [L1+L2+L3+N-PE] ( $I_{total}$ )  | 50 kA                                                             |
| Specific energy [L1+L2+L3+N-PE] (W/R)                                       | 625 kJ/Ohm                                                        |
| Lightning impulse current (10/350) [L-N]/[N-PE] ( $I_{imp}$ )               | 12.5 / 25 kA                                                      |
| Specific energy [L-N]/[N-PE] (W/R)                                          | 39.06 / 156.25 kJ/Ohm                                             |
| Nominal discharge current (8/20 $\mu$ s) [L-N] ( $I_n$ )                    | 12.5 kA                                                           |
| Nominal discharge current (8/20 $\mu$ s) [N-PE] ( $I_n$ )                   | 50 kA                                                             |
| Voltage protection level [L-N] ( $U_P$ )                                    | $\leq 1.5$ kV                                                     |
| Voltage protection level [N-PE] ( $U_P$ )                                   | $\leq 1.5$ kV                                                     |
| Follow current extinguishing capability [L-N]/[N-PE] ( $I_R$ )              | 25 kA <sub>rms</sub> / 100 A <sub>rms</sub>                       |
| Follow current limitation / Selectivity                                     | No tripping of a 35 A gG fuse up to 25 kA <sub>rms</sub> (prosp.) |
| Response time ( $t_A$ )                                                     | $\leq 100$ ns                                                     |
| Max. mains-side overcurrent protection                                      | 160 A gG                                                          |
| Temporary overvoltage [L-N] ( $U_T$ ) – Characteristics                     | 440 V / 120 min. – withstand                                      |
| Temporary overvoltage [N-PE] ( $U_T$ ) – Characteristics                    | 1200 V / 200 ms – withstand                                       |
| Operating temperature range ( $T_U$ )                                       | -40°C to +80°C                                                    |
| Operating state / fault indication                                          | green / red                                                       |
| Number of ports                                                             | 1                                                                 |
| Cross-sectional area (L, N, PE, $\pm$ ) (min.)                              | 1.5 mm <sup>2</sup> solid / fine-stranded                         |
| Cross-sectional area (L, N, PE, $\pm$ ) (max.)                              | 35 mm <sup>2</sup> stranded / 25 mm <sup>2</sup> fine-stranded    |

|                                               |                                                                                             |
|-----------------------------------------------|---------------------------------------------------------------------------------------------|
| POP                                           |                                                                                             |
| Type                                          | SPD+POP 3P+N T1+2                                                                           |
| Part No.                                      | 900 747  |
| Tested to                                     | IEC 63052 cat. 4.1.3S2                                                                      |
| Max. non-tripping voltage (AC)                | 255 V                                                                                       |
| Max. tripping voltage AC                      | 440 V                                                                                       |
| Tripping time at 400 V AC                     | 140 ms                                                                                      |
| Tripping time at 275 V AC                     | 9 sec                                                                                       |
| Tripping time at 300 V AC                     | 3 sec                                                                                       |
| Tripping time at 350 V AC                     | 0.5 sec                                                                                     |
| DC breaking capacity <sub>out</sub> 50 ms     | 230 V / 1 A; 48 V / 3 A; 24 V / 5 A; 12 V / 5 A                                             |
| Power consumption                             | 500 mW                                                                                      |
| Weight                                        | 257 g                                                                                       |
| Customs tariff number (Comb. Nomenclature EU) | 85363030                                                                                    |
| GTIN                                          | 4013364561465                                                                               |
| PU                                            | 1 pc(s)                                                                                     |

We reserve the right to introduce changes in performance, configuration and technology, dimensions, weights and materials in the course of technical progress. The figures are shown without obligation.