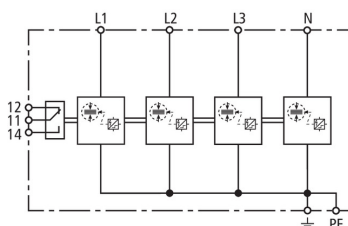


## DSH TNS 255 FM (941 405)

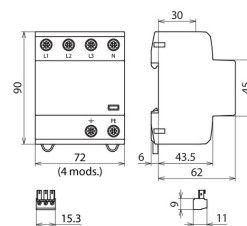
- Application-optimised and prewired spark-gap-based type 1 and type 2 combined lightning current and surge arrester
- Compact design due to space-saving spark gap technology with a width of only 1 module / pole
- Allows compact lightning equipotential bonding including protection of terminal equipment



Figure without obligation



Basic circuit diagram DSH TNS 255 FM



Dimension drawing DSH TNS 255 FM

Application-optimised and prewired combined lightning current and surge arrester for TN-S systems; with floating remote signalling contact.

| Type                                                                        | DSH TNS 255 FM                                                    |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------|
| Part No.                                                                    | 941 405                                                           |
| SPD according to EN 61643-11 / IEC 61643-11                                 | type 1 + type 2 / class I + class II                              |
| Energy coordination with terminal equipment ( $\leq 10$ m)                  | type 1 + type 2 + type 3                                          |
| Nominal voltage (a.c.) ( $U_N$ )                                            | 230 / 400 V (50 / 60 Hz)                                          |
| Max. continuous operating voltage (a.c.) ( $U_C$ )                          | 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)                                       | 625.00 kJ/ohms                                                    |
| Lightning impulse current (10/350 $\mu$ s) [L, N-PE] ( $I_{imp}$ )          | 12.5 kA                                                           |
| Specific energy [L,N-PE] (W/R)                                              | 39.06 kJ/ohms                                                     |
| Nominal discharge current (8/20 $\mu$ s) [L/N-PE]/[L1+L2+L3+N-PE] ( $I_n$ ) | 12.5 / 50 kA                                                      |
| Voltage protection level [L-PE]/[N-PE] ( $U_P$ )                            | $\leq 1.5$ / $\leq 1.5$ kV                                        |
| Follow current extinguishing capability (a.c.) ( $I_n$ )                    | 25 kA <sub>rms</sub>                                              |
| Follow current limitation / Selectivity                                     | no tripping of a 32 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 (TOV) [L-N] ( $U_T$ ) – Characteristic                | 440 V / 120 min. – withstand                                      |
| Operating temperature range ( $T_U$ )                                       | -40 °C ... +80 °C                                                 |
| Operating state / fault indication                                          | green / red                                                       |
| Number of ports                                                             | 1                                                                 |
| Cross-sectional area (L1, L2, L3, N, PE, $\frac{1}{2}$ ) (min.)             | 1.5 mm <sup>2</sup> solid / flexible                              |
| Cross-sectional area (L1, L2, L3, N, PE, $\frac{1}{2}$ ) (max.)             | 35 mm <sup>2</sup> stranded / 25 mm <sup>2</sup> flexible         |
| For mounting on                                                             | 35 mm DIN rails acc. to EN 60715                                  |
| Enclosure material                                                          | thermoplastic, red, UL 94 V-0                                     |
| Place of installation                                                       | indoor installation                                               |
| Degree of protection                                                        | IP 20                                                             |
| Capacity                                                                    | 4 module(s), DIN 43880                                            |
| Approvals                                                                   | KEMA, VDE                                                         |
| Type of remote signalling contact                                           | changeover contact                                                |
| Switching capacity (a.c.)                                                   | 250 V / 0.5 A                                                     |
| Switching capacity (d.c.)                                                   | 250 V / 0.1 A; 125 V / 0.2 A; 75 V / 0.5 A                        |
| Cross-sectional area for remote signalling terminals                        | max. 1.5 mm <sup>2</sup> solid / flexible                         |
| Weight                                                                      | 428 g                                                             |
| Customs tariff number (Comb. Nomenclature EU)                               | 85363090                                                          |
| GTIN                                                                        | 4013364275331                                                     |
| 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.