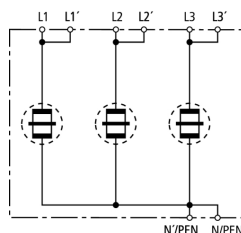


## DB 3 255 H (900 120)

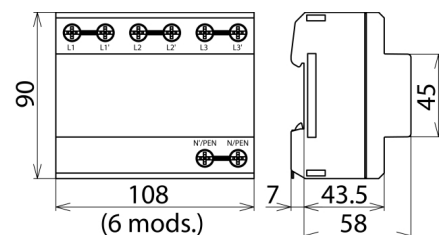
- Encapsulated creepage discharge spark gap without venting means
- RADAX Flow spark gap technology with high follow current limitation
- Can also be used upstream meter panels due to high insulation resistance



Figure without obligation



Basic circuit diagram DB 3 255 H



Dimension drawing DB 3 255 H

Single-pole and three-pole lightning current arrester with high follow current limitation.

| Type                                                                        | DB 3 255 H                                                           |
|-----------------------------------------------------------------------------|----------------------------------------------------------------------|
| Part No.                                                                    | 900 120                                                              |
| SPD according to EN 61643-11                                                | type 1                                                               |
| SPD according to IEC 61643-1/-11                                            | class I                                                              |
| Nominal a.c. voltage ( $U_N$ )                                              | 230 / 400 V                                                          |
| Max. continuous operating a.c. voltage ( $U_C$ )                            | 255 V                                                                |
| Lightning impulse current (10/350 $\mu$ s) [L-N/PEN] ( $I_{imp}$ )          | 50 kA                                                                |
| Specific energy [L-N/PEN] (W/R)                                             | 625.00 kJ/ohms                                                       |
| Lightning impulse current (10/350 $\mu$ s) [L1+L2+L3-N/PEN] ( $I_{total}$ ) | 100 kA                                                               |
| Specific energy [L1+L2+L3-N/PEN] (W/R)                                      | 2.50 MJ/ohms                                                         |
| Voltage protection level ( $U_P$ )                                          | $\leq 4$ kV                                                          |
| Follow current extinguishing capability a.c. ( $I_n$ )                      | 50 kA <sub>rms</sub>                                                 |
| Follow current limitation / Selectivity                                     | no tripping of a 32 A gL/gG fuse up to 50 kA <sub>rms</sub> (prosp.) |
| Response time ( $t_A$ )                                                     | $\leq 100$ ns                                                        |
| Max. backup fuse up to $I_K = 50$ kA <sub>rms</sub> ( $t_b \leq 0.2$ s)     | 500 A gL/gG                                                          |
| Max. backup fuse up to $I_K = 50$ kA <sub>rms</sub> ( $t_b \leq 5$ s)       | 315 A gL/gG                                                          |
| Max. backup fuse for $I_K > 50$ kA <sub>rms</sub>                           | 200 A gL/gG                                                          |
| Max. backup fuse (L-L')                                                     | 125 A gL/gG                                                          |
| Temporary overvoltage (TOV) ( $U_T$ )                                       | 335 V / 5 sec.                                                       |
| TOV characteristic                                                          | withstand                                                            |
| Operating temperature range (parallel connection) ( $T_{UP}$ )              | -40 °C ... +80 °C                                                    |
| Operating temperature range (series connection) ( $T_{US}$ )                | -40 °C ... +60 °C                                                    |
| Number of ports                                                             | 1                                                                    |
| Cross-sectional area (L1, L1', L2, L2', L3, L3', N/PEN, N'/PEN)             | 10 mm <sup>2</sup> solid / flexible                                  |
| Cross-sectional area (L1, L2, L3, N/PEN)                                    | 50 mm <sup>2</sup> stranded / 35 mm <sup>2</sup> flexible            |
| Cross-sectional area (L1', L2', L3', N'/PEN)                                | 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                                                                    | 6 module(s), DIN 43880                                               |
| Approvals                                                                   | KEMA, VDE                                                            |
| Weight                                                                      | 873 g                                                                |
| Customs tariff number                                                       | 85363030                                                             |
| GTIN                                                                        | 4013364109377                                                        |
| 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.