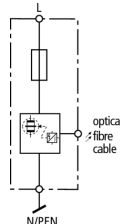


## DBM 1 255 S (900 220)

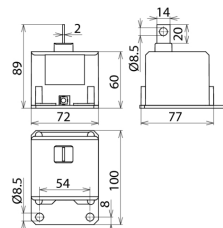
- Combination of spark gap and integrated backup fuse
- Directly mounted onto PEN/N busbars
- High follow current extinguishing capability and follow current limitation due to RADAX Flow technology



Figure without obligation



Basic circuit diagram DBM 1 255 S



Dimension drawing DBM 1 255 S

Coordinated, single-pole lightning current arrester with integrated backup fuse for busbars.

| Type                                                     | DBM 1 255 S                                                                                                          |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Part No.                                                 | 900 220                                                                                                              |
| SPD according to EN 61643-11 / ... IEC 61643-11          | type 1 / class I                                                                                                     |
| Nominal a.c. voltage ( $U_N$ )                           | 230 V (50 / 60 Hz)                                                                                                   |
| Max. continuous operating a.c. voltage ( $U_C$ )         | 255 V (50 / 60 Hz)                                                                                                   |
| Lightning impulse current (10/350 $\mu$ s) ( $I_{imp}$ ) | 25 kA                                                                                                                |
| Specific energy (W/R)                                    | 156.25 kJ/ohms                                                                                                       |
| Voltage protection level ( $U_P$ )                       | $\leq 2.5$ kV (including 80 cm connecting cable)                                                                     |
| 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                                                                                                        |
| Short-circuit withstand capability                       | 100 kA <sub>rms</sub> (220 kA <sub>peak</sub> )                                                                      |
| Max. mains-side overcurrent protection                   | not required                                                                                                         |
| Temporary overvoltage (TOV) ( $U_T$ ) – Characteristic   | 440 V / 120 min. – withstand                                                                                         |
| Operating temperature range ( $T_U$ )                    | -40 °C ... +80 °C                                                                                                    |
| Number of ports                                          | 1                                                                                                                    |
| For mounting on                                          | PEN / N busbars min. 35 mm <sup>2</sup>                                                                              |
| Connection type                                          | cable lug min. 35 mm <sup>2</sup> / max. 50 mm <sup>2</sup>                                                          |
| Enclosure material                                       | thermoplastic, red, UL 94 V-0                                                                                        |
| Place of installation                                    | indoor installation                                                                                                  |
| Dimensions (W x H x D)                                   | 72 x 89 x 100 mm                                                                                                     |
| Operating state indication                               | by optical fibre cables via DSI E 3                                                                                  |
| <b>Extended technical data:</b>                          | <b>Use in installations with prospective short-circuit currents of more than 50 kA<sub>rms</sub> (tested by VDE)</b> |
| – Maximum prospective short-circuit current              | 100 kA <sub>rms</sub> (220 kA <sub>peak</sub> )                                                                      |
| – Limitation/extinction of mains follow currents         | up to 100 kA <sub>rms</sub> (220 kA <sub>peak</sub> )                                                                |
| Weight                                                   | 699 g                                                                                                                |
| Customs tariff number                                    | 85363090                                                                                                             |
| GTIN                                                     | 4013364106734                                                                                                        |
| 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.