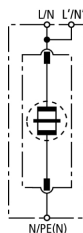


## DBH M 1 255 (961 122)

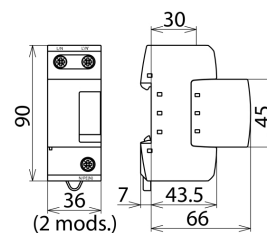
- Encapsulated creepage discharge spark gap without venting means
- RADAX Flow spark gap technology with high follow current limitation
- Can also be used upstream meter panels due to high insulation resistance



Figure without obligation



Basic circuit diagram DBH M 1 255



Dimension drawing DBH M 1 255

Modular single-pole lightning current arrester with high follow current limitation for  $U_c = 255 \text{ V}$ .

| Type   | DBH M 1 255  |
|--|--|
| Part No.   | 961 122  |
| SPD according to EN 61643-11 / IEC 61643-11  | type 1 / class I   |
| Nominal voltage (a.c.) ( $U_n$ )   | 230 V (50 / 60 Hz)   |
| Max. continuous operating voltage (a.c.) ( $U_c$ )                                     | 255 V (50 / 60 Hz)   |
| Lightning impulse current (10/350 $\mu$ s) ( $I_{imp}$ )                               | 50 kA  |
| Voltage protection level ( $U_p$ )   | $\leq 4 \text{ kV}$  |
| Follow current extinguishing capability (a.c.) ( $I_{fi}$ )                            | 50 kA <sub>rms</sub>   |
| Follow current limitation / Selectivity  | no tripping of a 32 A gG fuse up to 50 kA <sub>rms</sub> (prosp.)  |
| Response time ( $t_a$ )  | $\leq 100 \text{ ns}$  |
| Max. backup fuse (L) up to $I_K = 50 \text{ kA}_{rms}$ ( $t_a \leq 0.2 \text{ s}$ )    | 500 A gG   |
| Max. backup fuse (L) up to $I_K = 50 \text{ kA}_{rms}$ ( $t_a \leq 5 \text{ s}$ )      | 315 A gG   |
| Max. backup fuse (L-L')  | 125 A gG   |
| Temporary overvoltage (TOV) ( $U_T$ ) – Characteristic                                 | 440 V / 120 min. – 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 (L/N, L'/N', N/PE(N)) (min.)                                      | 10 mm <sup>2</sup> solid/flexible  |
| Cross-sectional area (L/N, N/PE(N)) (max.)   | 50 mm <sup>2</sup> stranded / 35 mm <sup>2</sup> flexible  |
| Cross-sectional area (L'/N') (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   | 2 module(s), DIN 43880   |
| Extended technical data:   | Use in switchgear installations with prospective short-circuit currents of more than 50 kArms (tested by the German VDE) |
| – Max. 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> )  |
| – Max. backup fuse (L) up to $I_K = 100 \text{ kA}_{rms}$ ( $t_a \leq 0.2 \text{ s}$ ) | 500 A gG   |
| – Max. backup fuse (L) up to $I_K = 100 \text{ kA}_{rms}$ ( $t_a \leq 5 \text{ s}$ )   | 315 A gG   |
| Weight   | 358 g  |
| Customs tariff number  | 85363030   |
| GTIN   | 4013364118652  |
| 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.