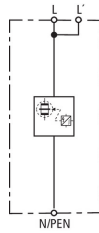


**DBM 1 440 (961 140)**

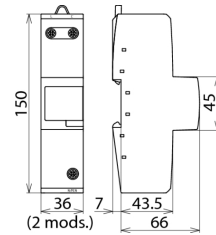
- Extremely high lightning current discharge capacity
- High follow current extinction and limitation due to RADAX Flow technology
- Directly coordinated with DEHNguard surge protective devices without additional cable length



Figure without obligation



Basic circuit diagram DBM 1 440



Dimension drawing DBM 1 440

Coordinated single-pole lightning current arrester with high follow current limitation for  $U_c = 440\text{ V}$ .

| Type<br>Part No.   | DBM 1 440<br>961 140   |
|--|--|
| SPD according to EN 61643-11 / IEC 61643-11  | type 1 / class I   |
| Nominal voltage (a.c.) ( $U_N$ )   | 400 V  |
| Max. continuous operating voltage (a.c.) ( $U_c$ )                                   | 440 V  |
| Lightning impulse current (10/350 $\mu$ s) ( $I_{imp}$ )                             | 35 kA  |
| Specific energy (W/R)  | 306.25 kJ/ohms   |
| Nominal discharge current (8/20 $\mu$ s) ( $I_n$ )                                   | 35 kA  |
| Voltage protection level ( $U_p$ )   | $\leq 2.5\text{ kV}$   |
| Follow current extinguishing capability (a.c.) ( $I_n$ )                             | 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 $I_k = 50\text{ kA}_{rms}$ ( $t_a \leq 5\text{ s}$ )      | 250 A gG   |
| Max. backup fuse (L-L')  | 125 A gG   |
| Temporary overvoltage (TOV) ( $U_T$ ) – Characteristic                               | 760 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  |
| Operating state / fault indication   | green / red  |
| Number of ports  | 1  |
| Cross-sectional area (L, L', N/PEN) (min.)   | 10 mm <sup>2</sup> solid / flexible  |
| Cross-sectional area (L, N/PEN) (max.)   | 50 mm <sup>2</sup> stranded / 35 mm <sup>2</sup> flexible  |
| Cross-sectional area (L') (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   |
| Approvals  | UL, CSA  |
| Extended technical data:   | Use in switchgear installations with prospective short-circuit currents of more than 50 kA <sub>rms</sub> (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 $I_k = 100\text{ kA}_{rms}$ ( $t_a \leq 5\text{ s}$ )   | 250 A gG   |
| Weight   | 516 g  |
| Customs tariff number (Comb. Nomenclature EU)  | 85363090   |
| GTIN   | 4013364116269  |
| 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.