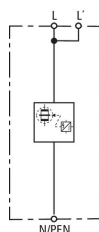


DBM 1 440 (961 140)

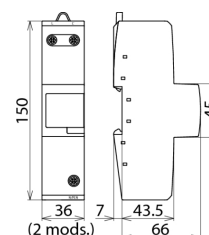
- Extremely high lightning current discharge capacity
- High follow current extinction and limitation due to RADAX Flow technology
- Directly coordinated with DEHNguard surge protective devices without additional cable length



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 Part No. | DBM 1 440 961 140 |
|---|---|
| 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 μs) (I_{imp}) | 35 kA |
| Specific energy (W/R) | 306.25 kJ/ohms |
| Nominal discharge current (8/20 μs) (I_n) | 35 kA |
| Voltage protection level (U_p) | $\leq 2.5 \text{ kV}$ |
| Follow current extinguishing capability (a.c.) (I_n) | 50 kA_{rms} |
| Follow current limitation / Selectivity | no tripping of a 32 A gG fuse up to 50 kA_{rms} (prosp.) |
| Response time (t_a) | $\leq 100 \text{ ns}$ |
| Max. backup fuse (L) up to $I_k = 50 \text{ kA}_{\text{rms}}$ ($t_a \leq 0.2 \text{ s}$) | 500 A gG |
| Max. backup fuse (L) up to $I_k = 50 \text{ kA}_{\text{rms}}$ ($t_a \leq 5 \text{ s}$) | 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^2 solid / flexible |
| Cross-sectional area (L, N/PEN) (max.) | 50 mm^2 stranded / 35 mm^2 flexible |
| Cross-sectional area (L') (max.) | 35 mm^2 stranded / 25 mm^2 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_{rms} (tested by the German VDE) |
| – Max. prospective short-circuit current | 100 kA_{rms} (220 kA_{peak}) |
| – Limitation / Extinction of mains follow currents | up to 100 kA_{rms} (220 kA_{peak}) |
| – Max. backup fuse (L) up to $I_k = 100 \text{ kA}_{\text{rms}}$ ($t_a \leq 0.2 \text{ s}$) | 500 A gG |
| – Max. backup fuse (L) up to $I_k = 100 \text{ kA}_{\text{rms}}$ ($t_a \leq 5 \text{ s}$) | 250 A gG |
| Weight | 516 g |
| Customs tariff number | 85363090 |
| GTIN | 4013364116269 |
| PU | 1 Stk |

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.