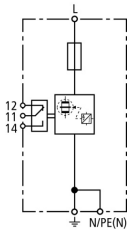
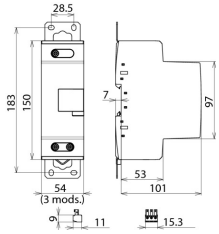
# DBM 1 CI 440 FM (961 146)

- Spark-gap-based lightning current arrester with integrated backup fuse
- Maximum system availability thanks to RADAX Flow follow current limitation
- Directly coordinated with DEHNguard surge protective devices without cable length

Figure without obligation




Basic circuit diagram DBM 1 CI 440 FM




Dimension drawing DBM 1 CI 440 FM

Coordinated single-pole lightning current arrester with integrated backup fuse for 400 / 690 V TN systems and 400 V IT systemss; with remote signalling contact for monitoring device (floating changeover contact).

| Type<br>Part No. | DBM 1 CI 440 FM<br>961 146 |
|---|---|
| SPD according to EN 61643-11 / IEC 61643-11 | type 1 / class I |
| Nominal voltage (a.c.) ($U_N$) | 400 / 690 V (50 / 60 Hz) |
| Maximum continuous operating voltage (a.c.) ($U_C$) | 440 V (50 / 60 Hz) |
| Lightning impulse current (10/350 µs) ($I_{imp}$) | 35 kA |
| Specific energy (W/R) | 306.25 kJ/ohms |
| Voltage protection level ($U_P$) | ≤ 2.5 kV |
| Follow current extinguishing capability (a.c.) ($I_{fi}$) | 50 $kA_{rms}$ |
| Follow current limitation / Selectivity | no tripping of a 35 A gG fuse up to 50 $kA_{rms}$ (prosp.) |
| Response time ($t_A$) | ≤ 100 ns |
| Max. mains-side overcurrent protection | not required |
| Temporary overvoltage (TOV) ($U_T$) – Characteristic | 760 V / 120 min. – withstand |
| Operating temperature range ($T_U$) | -40 °C ... +80 °C |
| Operating state / fault indication | green / red |
| Number of ports | 1 |
| Cross-sectional area (L, N/PE(N)) (min.) | 10 $mm^2$ solid / flexible |
| Cross-sectional area (L, N/PE(N)) (max.) | 50 $mm^2$ stranded / 35 $mm^2$ flexible |
| For mounting on | 35 mm DIN rails acc. to EN 60715 or mounting plate (using the two mounting brackets provided) |
| Enclosure material | thermoplastic, red, UL 94 V-0 |
| Place of installation | indoor installation |
| Degree of protection | IP 20 |
| Capacity | 3 module(s), DIN 43880 |
| Type of remote signalling contact | changeover contact |
| Switching capacity (a.c.) | 250 V / 0.5 A |
| Switching capacity (d.c.) | 250 V / 0.1 A; 125 V / 0.2 A; 75 V / 0.5 A |
| Cross-sectional area for remote signalling terminals | max. 1.5 $mm^2$ solid / flexible |
| Supplementary data: | ---------- |
| – Nominal discharge current (8/20 µs) ($I_n$) | 35 kA |
| Weight | 946 g |
| Customs tariff number (Comb. Nomenclature EU) | 85363090 |
| GTIN | 4013364250062 |
| 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.