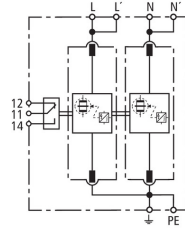


DV M TN 255 FM (951 205)

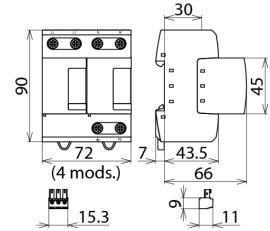
- Prewired spark-gap-based type 1 and type 2 combined lightning current and surge arrester consisting of a base part and plug-in protection modules
- Maximum system availability due to RADAX Flow follow current limitation
- Capable of protecting terminal equipment



Figure without obligation



Basic circuit diagram DV M TN 255 FM



Dimension drawing DV M TN 255 FM

Modular combined lightning current and surge arrester for single-phase TN systems.

| Type Part No. | DV M TN 255 FM 951 205 |
|---|--|
| SPD according to EN 61643-11 / IEC 61643-11 | type 1 + type 2 / class I + class II |
| Energy coordination with terminal equipment (≤ 10 m) | type 1 + type 2 + type 3 |
| Nominal voltage (a.c.) (U _n) | 230 V (50 / 60 Hz) |
| Max. continuous operating voltage (a.c.) (U _c) | 264 V (50 / 60 Hz) |
| Lightning impulse current (10/350 μs) [L+N-PE] (I _{total}) | 50 kA |
| Specific energy [L+N-PE] (W/R) | 625.00 kJ/ohms |
| Lightning impulse current (10/350 μs) [L, N-PE] (I _{imp}) | 25 kA |
| Specific energy [L,N-PE] (W/R) | 156.25 kJ/ohms |
| Nominal discharge current (8/20 μs) [L/N-PE]/[L+N-PE] (I _n) | 25 / 50 kA |
| Voltage protection level [L-PE]/[N-PE] (U _p) | ≤ 1.5 / ≤ 1.5 kV |
| Follow current extinguishing capability (a.c.) (I _n) | 50 kA _{rms} |
| Follow current limitation / Selectivity | no tripping of a 20 A gG fuse up to 50 kA _{rms} (prosp.) |
| Response time (t _a) | ≤ 100 ns |
| Max. backup fuse (L) up to I _k = 50 kA _{rms} | 315 A gG |
| Max. backup fuse (L-L') | 125 A gG |
| Temporary overvoltage (TOV) [L-N] (U _T) – Characteristic | 440 V / 120 min. – withstand |
| Operating temperature range [parallel] / [series] (T _U) | -40 °C ... +80 °C / -40 °C ... +60 °C |
| Operating state / fault indication | green / red |
| Number of ports | 1 |
| Cross-sectional area (L, L', N, N', PE, ±) (min.) | 10 mm ² solid / flexible |
| Cross-sectional area (L, N, PE) (max.) | 50 mm ² stranded / 35 mm ² flexible |
| Cross-sectional area (L', N', ±) (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 | 4 module(s), DIN 43880 |
| Approvals | KEMA, VDE, UL |
| 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 |
| Extended technical data: | For 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}) |
| – Limiting/cancelling of mains follow currents | up to 100 kA _{rms} (220 kA _{peak}) |
| – Max. backup fuse (L) up to I _k = 100 kA _{rms} | 315 A gG |

Use for 16.7 Hz traction power supply systems

| Type | DV M TN 255 FM |
|---|--------------------|
| Part No. | 951 205 |
| - Nominal voltage (a.c.) (U_N) | 230 V |
| - Nominal frequency (a.c.) (f_N) | 16.7 Hz |
| - Max. backup fuse | 125 A gG @ 16,7 Hz |
| Weight | 668 g |
| Customs tariff number (Comb. Nomenclature EU) | 85363090 |
| GTIN | 4013364108103 |
| 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.