



Dimension drawing DV M TT 2P 255 (FM)

Basic circuit diagram DV M TT 2P 255 FM

DV M TT 2P 255 (FM): Modular combined lightning current and surge arrester for single-phase TT and TN systems ("1+1" circuit)

- **Prewired combined spark-gap-based 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**
- **No tripping of 20 A gL/gG fuses up to 50 kA_{rms} short-circuit currents**
- **Lightning current discharge capacity: 50 kA (10/350 μs)**
- **Allows for protection of terminal equipment**
- **Fault indication by red mark in the inspection window**
- **Easy exchange of protection modules by module locking system with releasing button**
- **Tested for vibration- and shock-proofness acc. to EN 60068-2**

DV M TT 2P 255 FM

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| SPD according to EN 61643-11 | Type 1 |
| SPD according to IEC 61643-1 | Class I |
| Nominal ac voltage [U _N] | 230 V |
| Max. continuous ac voltage [U _C] | 255 V |
| Lightning impulse current (10/350 μs) [L+N-PE] | 50 kA |
| Lightning impulse current (10/350 μs) [L-N] [I _{imp}] | 25 kA |
| Lightning impulse current (10/350 μs) [N-PE] [I _{imp}] | 50 kA |
| Nominal discharge current (8/20 μs) [I _n] | 25 / 50 kA |
| Voltage protection level [L-N] [U _{p1}] | ≤ 1.5 kV |
| Voltage protection level [N-PE] [U _{p1}] | ≤ 1.5 kV |
| Follow current extinguishing capability [L-N] ac [I _{ff}] | 50 kA _{rms} |
| Follow current extinguishing capability [N-PE] ac [I _{ff}] | 100 A _{rms} |
| Follow current limitation/Selectivity | no tripping of a 20 A gL/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 gL/gG |
| Max. backup fuse (L) at I _K > 50 kA _{rms} | 200 A gL/gG |
| Max. backup fuse (L-L') | 125 A gL/gG |
| TOV voltage [L-N] [U _{T1}] | 440 V / 5 sec. |
| TOV voltage [N-PE] [U _{T1}] | 1200 V / 200 ms |
| 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 |
| 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 |

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|---|---|
| Cross-sectional area (L', N', $\frac{1}{2}$) [max.] | 35 mm ² stranded/25 mm ² flexible |
| Mounting on | 35 mm DIN rail acc. to EN 60715 |
| Enclosure material | red thermoplastic, UL 94-V-0 |
| Degree of protection | IP 20 |
| Dimension | 4 mods., DIN 4 |
| Approvals, Certifications | KEMA, VDE |
| Type of remote signalling contact | changeover contact |
| Switching capacity ac | 250 V/0.5 A |
| Switching capacity dc | 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 |
| Ordering information | |
| Type | DV M TT 2P 255 FM |
| Part No. | 951 115 |
| Packing unit | 1 pcs. |

Change in form and technology, with masses, weights and materials we reserve ourselves in the sense of the progress of the technology. The illustrations are noncommittal.