



Dimension drawing DV M TT 255 (FM)

Basic circuit diagram DV M TT 255 FM

DV M TT 255 (FM): Modular combined lightning current and surge arrester for TT and TN-S systems ("3+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: 100 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 255

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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 / 400 V |
| Max. continuous ac voltage [U _C] | 255 V |
| Lightning impulse current (10/350 µs) [L1+L2+L3+N-PE] [I _{imp}] | 100 kA |
| Lightning impulse current (10/350 µs) [L-N] [I _{imp}] | 25 kA |
| Lightning impulse current (10/350 µs) [N-PE] [I _{imp}] | 100 kA |
| Nominal discharge current (8/20 µs) [I _n] | 25 / 100 kA |
| Voltage protection level [L-N] [U _p] | ≤ 1.5 kV |
| Voltage protection level [N-PE] [U _p] | ≤ 1.5 kV |
| Follow current extinguishing capability [L-N] ac [I _{fj}] | 50 kA _{rms} |
| Follow current extinguishing capability [N-PE] ac [I _{fj}] | 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 _T] | 440 V / 5 sec. |
| TOV voltage [N-PE] [U _T] | 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 (L1, L1', L2, L2', L3, L3', N, N', PE, ±) [min.] | 10 mm ² solid/flexible |
| Cross-sectional area (L1, L2, L3, N, PE) [max.] | 50 mm ² stranded/35 mm ² flexible |
| Cross-sectional area (L1', L2', L3', N', ±) [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 |

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|----------------------------------|----------------|
| Degree of protection | IP 20 |
| Dimension | 8 mods., DIN 4 |
| Approvals, Certifications | KEMA, VDE |
| Ordering information | |
| Type | DV M TT 255 |
| Part No. | 951 310 |
| Packing unit | 1pcs. |

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.