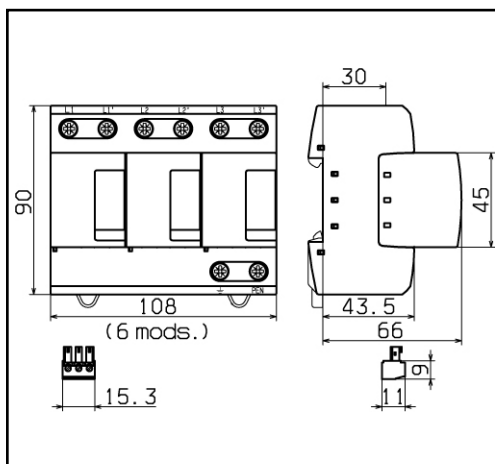
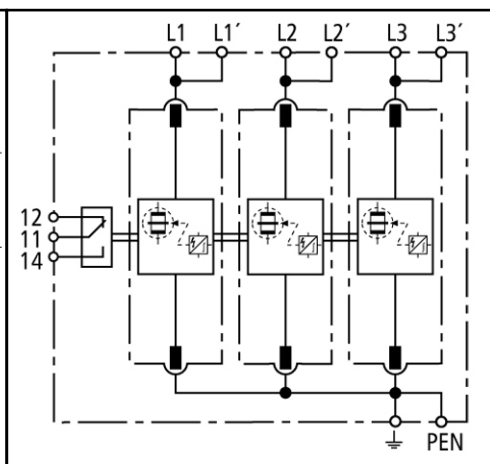




Dimension drawing DV M TNC 255 (FM)



Basic circuit diagram DV M TNC 255 FM



DV M TNC 255 (FM): Modular combined lightning current and surge arrester for protecting TN-C systems against surges

**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<sub>rms</sub> short-circuit currents**

**Lightning current discharge capacity: 75 kA (10/350 µs)**

**Protection of terminal equipment**

**Fault indication by red indicator flag in window**

**Easy replacement of protection modules due to module locking system with release button**

**Vibration- and shock-tested acc. to EN 60068-2**

| DV M TNC 255                                                                      |                                                                      |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------|
| SPD according to EN 61643-11 / ... IEC 61643-1                                    | Type 1 / Class I                                                     |
| Energy-coordinated protection effect with regard to the terminal equipment        | Type 1 + Type 2                                                      |
| Energy-coordinated protection effect with regard to the terminal equipment (≤ 5m) | Type 1 + Type 2 + Type 3                                             |
| Nominal a.c. voltage [U <sub>N</sub> ]                                            | 230 / 400 V                                                          |
| Max. continuous operating a.c. voltage [U <sub>C</sub> ]                          | 255 V                                                                |
| Lightning impulse current (10/350 µs) [L1+L2+L3-PEN] [I <sub>total</sub> ]        | 75 kA                                                                |
| Specific energy [L1+L2+L3-PEN] [W/R]                                              | 1.40 MJ/ohms                                                         |
| Lightning impulse current (10/350 µs) [L-PEN] [I <sub>imp</sub> ]                 | 25 kA                                                                |
| Specific energy [L-PEN] [W/R]                                                     | 156.25 kJ/ohms                                                       |
| Nominal discharge current (8/20 µs) [I <sub>n</sub> ]                             | 25 / 75 kA                                                           |
| Voltage protection level [U <sub>p</sub> ]                                        | ≤ 1.5 kV                                                             |
| Follow current extinguishing capability a.c. [I <sub>fl</sub> ]                   | 50 kA <sub>rms</sub>                                                 |
| Follow current limitation/Selectivity                                             | no tripping of a 20 A gL/gG fuse up to 50 kA <sub>rms</sub> (prosp.) |
| Response time [t <sub>A</sub> ]                                                   | ≤ 100 ns                                                             |
| Max. backup fuse (L) up to I <sub>K</sub> = 50 kA <sub>rms</sub>                  | 315 A gL/gG                                                          |
| Max. backup fuse (L) for I <sub>K</sub> > 50 kA <sub>rms</sub>                    | 200 A gL/gG                                                          |
| Max. backup fuse (L-L')                                                           | 125 A gL/gG                                                          |
| Temporary overvoltage (TOV) [U <sub>T</sub> ]                                     | 440 V / 5 sec.                                                       |
| TOV characteristics                                                               | withstand                                                            |
| Operating temperature range [parallel]/[continuity] [T <sub>U</sub> ]             | -40°C...+80°C / -40°C...+60°C                                        |
| Operating state/fault indication                                                  | green / red                                                          |
| Number of ports                                                                   | 1                                                                    |
| Cross-sectional area (L1, L1', L2, L2', L3, L3', PEN, ÷) [min.]                   | 10 mm <sup>2</sup> solid/flexible                                    |
| Cross-sectional area (L1, L2, L3, PEN) [max.]                                     | 50 mm <sup>2</sup> stranded/35 mm <sup>2</sup> flexible              |
| Cross-sectional area (L1', L2', L3', ÷) [max.]                                    | 35 mm <sup>2</sup> stranded/25 mm <sup>2</sup> flexible              |

|                           |                                 |
|---------------------------|---------------------------------|
| For mounting on           | 35 mm DIN rail acc. to EN 60715 |
| Enclosure material        | thermoplastic, red, UL 94 V-0   |
| Location category         | indoor                          |
| Degree of protection      | IP 20                           |
| Capacity                  | 6 mods., DIN 4                  |
| Approvals, Certifications | KEMA, VDE, UL, VdS              |
|                           |                                 |
| Ordering information      |                                 |
| Type                      | DV M TNC 255                    |
| Part No.                  | <b>951 300</b>                  |
| Packing unit              | 1 pc                            |

We reserve the right to modify design, technology, dimensions, weights and materials according to technical progress. Illustrations are non-binding. Pictures may differ from the modules described.