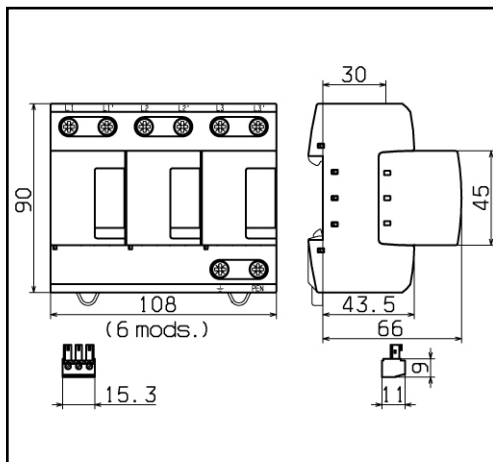
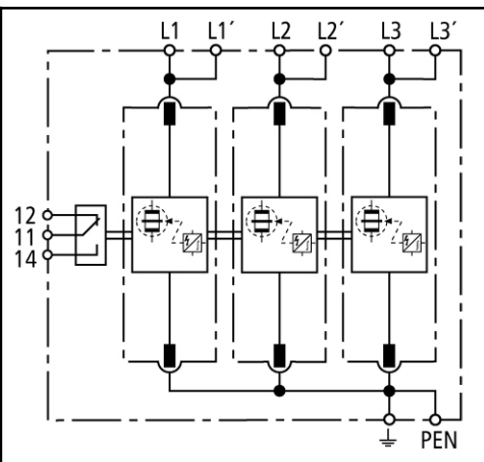




Dimension drawing DV M TNC 255 (FM)



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 FM

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                      |
| 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 <sup>2</sup> solid/flexible |
|                                                      |                                         |
| Ordering information                                 |                                         |
| Type                                                 | DV M TNC 255 FM                         |
| Part No.                                             | <b>951 305</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.