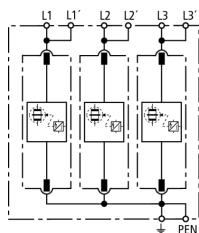


## DV M TNC 255 (951 300)

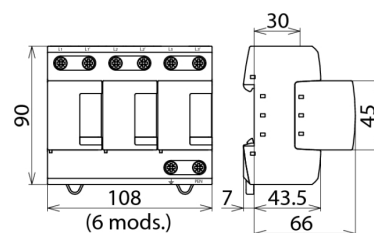
- Prewired combined type 1 and type 2 spark-gap-based lightning current and surge arrester consisting of a base part and plug-in protection modules
- Maximum system availability due to RADAX Flow follow current limitation
- Capable of protecting terminal equipment



Figure without obligation



Basic circuit diagram DV M TNC 255



Dimension drawing DV M TNC 255

Modular combined lightning current and surge arrester for protecting TN-C systems against surges.

| Type   | DV M TNC 255   |
|--|--|
| Part No.   | 951 300  |
| SPD according to EN 61643-11 / IEC 61643-11                                      | type 1 + type 2 / class I + class II   |
| Energy coordination with terminal equipment ( $\leq 5\text{m}$ )                 | type 1 + type 2 + type 3   |
| Nominal a.c. voltage ( $U_N$ )   | 230 / 400 V (50 / 60 Hz)   |
| Max. continuous operating a.c. voltage ( $U_C$ )                                 | 264 V (50 / 60 Hz)   |
| Lightning impulse current (10/350 $\mu\text{s}$ ) [L1+L2+L3-PEN] ( $I_{total}$ ) | 75 kA  |
| Specific energy [L1+L2+L3-PEN] (W/R)   | 1.40 MJ/ohms   |
| Lightning impulse current (10/350 $\mu\text{s}$ ) [L-PEN] ( $I_{imp}$ )          | 25 kA  |
| Specific energy [L-PEN] (W/R)  | 156.25 kJ/ohms   |
| Nominal discharge current (8/20 $\mu\text{s}$ ) [L-PEN]/[L1+L2+L3-PEN] ( $I_n$ ) | 25 / 75 kA   |
| Voltage protection level ( $U_P$ )   | $\leq 1.5\text{ kV}$   |
| Follow current extinguishing capability a.c. ( $I_R$ )                           | 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 ( $t_A$ )  | $\leq 100\text{ ns}$   |
| Max. backup fuse (L) up to $I_K = 50\text{ kA}_{rms}$                            | 315 A gL/gG  |
| Max. backup fuse (L-L')  | 125 A gL/gG  |
| Temporary overvoltage (TOV) ( $U_T$ ) – 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 (L1, L1', L2, L2', L3, L3', PEN, $\pm$ ) (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', $\pm$ ) (max.)                              | 35 mm <sup>2</sup> stranded / 25 mm <sup>2</sup> 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   | 6 module(s), DIN 43880   |
| Approvals  | KEMA, VDE, UL, VdS   |
| Extended technical data:   | Use in switchgear installations with prospective short-circuit currents of more than 50 kA <sub>rms</sub> (tested by the German VDE) |
| – Maximum prospective short-circuit current                                      | 100 kA <sub>rms</sub> (220 kA <sub>peak</sub> )  |
| – Limitation / Extinction of mains follow currents                               | up to 100 kA <sub>rms</sub> (220 kA <sub>peak</sub> )  |
| – Max. backup fuse (L) up to $I_K = 100\text{ kA}_{rms}$                         | 315 A gL/gG  |
| Weight   | 970 g  |
| Customs tariff number  | 85363030   |
| GTIN   | 4013364108134  |
| 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.