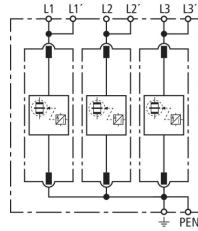


## DV M TNC 255 (951 300)

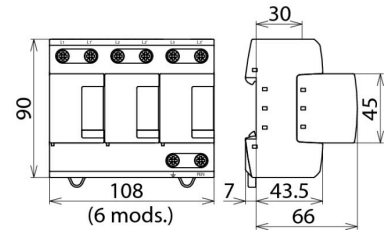
- Prewired combined type 1 and type 2 spark-gap-based lightning current and surge arrester consisting of a base part and plug-in protection modules
- Maximum system availability due to RADAX Flow follow current limitation
- Capable of protecting terminal equipment



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 ( $\leq 10$ m)                | type 1 + type 2 + type 3   |
| Nominal voltage (a.c.) ( $U_n$ )  | 230 / 400 V (50 / 60 Hz)   |
| Max. continuous operating voltage (a.c.) ( $U_c$ )                        | 264 V (50 / 60 Hz)   |
| Lightning impulse current (10/350 $\mu$ 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 $\mu$ s) [L-PEN] ( $I_{imp}$ )          | 25 kA  |
| Specific energy [L-PEN] (W/R)   | 156.25 kJ/ohms   |
| Nominal discharge current (8/20 $\mu$ s) [L-PEN]/[L1+L2+L3-PEN] ( $I_n$ ) | 25 / 75 kA   |
| Voltage protection level ( $U_p$ )  | $\leq 1.5$ kV  |
| Follow current extinguishing capability (a.c.) ( $I_n$ )                  | 50 kA <sub>rms</sub>   |
| Follow current limitation / Selectivity                                   | no tripping of a 20 A gG fuse up to 50 kA <sub>rms</sub> (prosp.)  |
| Response time ( $t_A$ )   | $\leq 100$ ns  |
| Max. backup fuse (L) up to $I_k = 50$ kA <sub>rms</sub>                   | 315 A gG   |
| Max. backup fuse (L-L')   | 125 A 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  |
| Extended technical data:  | For use in switchgear installations with prospective short-circuit currents of more than 50 kA <sub>rms</sub> (tested by the German VDE) |
| – Max. prospective short-circuit current                                  | 100 kA <sub>rms</sub> (220 kA <sub>peak</sub> )  |
| – Limiting/cancelling of mains follow currents                            | up to 100 kA <sub>rms</sub> (220 kA <sub>peak</sub> )  |
| – Max. backup fuse (L) up to $I_k = 100$ kA <sub>rms</sub>                | 315 A gG   |

## Use for 16.7 Hz traction power supply systems

|   |                     |
|---|---------------------|
| <b>Type</b>                                   | <b>DV M TNC 255</b> |
| <b>Part No.</b>                               | <b>951 300</b>      |
| – Nominal voltage (a.c.) ( $U_N$ )            | 230 / 400 V         |
| – Nominal frequency (a.c.) ( $f_N$ )          | 16.7 Hz             |
| – Max. backup fuse                            | 125 A gG @ 16,7 Hz  |
| <b>Weight</b>                                 | <b>970 g</b>        |
| Customs tariff number (Comb. Nomenclature EU) | 85363090            |
| 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.