



## DV M TT 2P 255 FM (951 115)

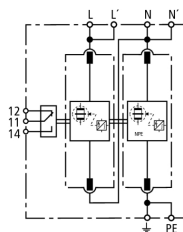
Prewired spark-gap-based combined lightning current and surge arrester consisting of a base part and plug-in protection modules

Maximum system availability due to RADAX Flow follow current limitation

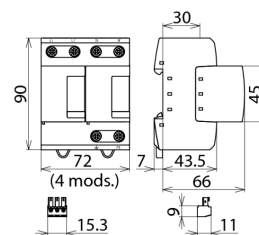
Capable of protecting terminal equipment



Figure without obligation



Basic circuit diagram DV M TT 2P 255 FM



Dimension drawing DV M TT 2P 255 FM

Modular combined lightning current and surge arrester for single-phase TT and TN systems ("1+1" circuit)

| Type<br>Part No.                                                                    | DV M TT 2P 255 FM<br>951 115                                                |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| SPD according to EN 61643-11 / IEC 61643-1                                          | Type 1 / Class I                                                            |
| Energy coordination with terminal equipment                                         | Type 1 + Type 2                                                             |
| Energy coordination with terminal equipment ( $\leq 5\text{m}$ )                    | Type 1 + Type 2 + Type 3                                                    |
| Nominal a.c. voltage ( $U_N$ )                                                      | 230 V                                                                       |
| Max. continuous operating a.c. voltage ( $U_C$ )                                    | 255 V                                                                       |
| Lightning impulse current (10/350 $\mu\text{s}$ ) [L+N-PE] ( $I_{\text{total}}$ )   | 50 kA                                                                       |
| Specific energy [L+N-PE] (W/R)                                                      | 625.00 kJ/ohms                                                              |
| Lightning impulse current (10/350 $\mu\text{s}$ ) [L-N]/[N-PE] ( $I_{\text{imp}}$ ) | 25 / 50 kA                                                                  |
| Specific energy [L-N]/[N-PE] (W/R)                                                  | 156.25 kJ/ohms / 625.00 kJ/ohms                                             |
| Nominal discharge current (8/20 $\mu\text{s}$ ) ( $I_n$ )                           | 25 / 50 kA                                                                  |
| Voltage protection level [L-N]/[N-PE] ( $U_p$ )                                     | $\leq 1.5 \text{ kV} / \leq 1.5 \text{ kV}$                                 |
| Follow current extinguishing capability [L-N]/[N-PE] ( $I_{\text{fi}}$ )            | 50 $\text{kA}_{\text{rms}}$ / 100 $\text{A}_{\text{rms}}$                   |
| Follow current limitation/Selectivity                                               | no tripping of a 20 A gL/gG fuse up to 50 $\text{kA}_{\text{rms}}$ (prosp.) |
| Response time ( $t_A$ )                                                             | $\leq 100 \text{ ns}$                                                       |
| Max. backup fuse (L) up to $I_k = 50 \text{ kA}_{\text{rms}}$                       | 315 A gL/gG                                                                 |
| Max. backup fuse (L) for $I_k > 50 \text{ kA}_{\text{rms}}$                         | 200 A gL/gG                                                                 |
| Max. backup fuse (L-L')                                                             | 125 A gL/gG                                                                 |
| Temporary overvoltage (TOV) [L-N] ( $U_T$ )                                         | 440 V / 5 sec.                                                              |
| Temporary overvoltage (TOV) [N-PE] ( $U_T$ )                                        | 1200 V / 200 ms                                                             |
| TOV characteristic                                                                  | 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 (L, L', N, N', PE, $\pm$ ) (min.)                              | 10 mm <sup>2</sup> solid/flexible                                           |
| Cross-sectional area (L, N, PE) (max.)                                              | 50 mm <sup>2</sup> stranded/35 mm <sup>2</sup> flexible                     |
| Cross-sectional area (L', N', $\pm$ ) (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                                                                      |
| Degree of protection                                                                | IP 20                                                                       |
| Capacity                                                                            | 4 module(s), DIN 43880                                                      |
| Approvals                                                                           | KEMA, VDE, UL, VdS                                                          |
| Type of remote signalling contact                                                   | changeover contact                                                          |
| a.c. switching capacity                                                             | 250 V/0.5 A                                                                 |
| d.c. switching capacity                                                             | 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                                     |
| PU                                                                                  | 1 pc(s)                                                                     |
| Weight                                                                              | 664,380 g                                                                   |
| Customs tariff number                                                               | 85363030                                                                    |
| GTIN                                                                                | 4013364108127                                                               |

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.