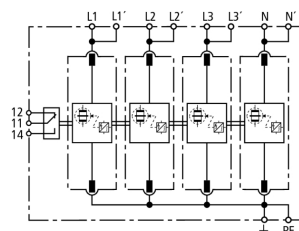


DV M TNS 255 FM (951 405)

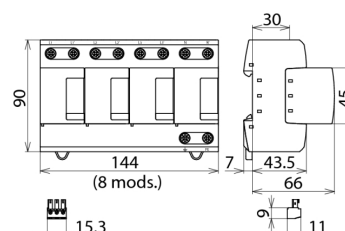
- Prewired spark-gap-based combined lightning current and surge arrester consisting of a base part and plug-in protection modules
- Maximum system availability due to RADAX Flow follow current limitation
- Capable of protecting terminal equipment



Figure without obligation



Basic circuit diagram DV M TNS 255 FM



Dimension drawing DV M TNS 255 FM

Modular combined lightning current and surge arrester for TN-S systems

| Type | DV M TNS 255 FM |
|--|--|
| Part No. | 951 405 |
| SPD according to EN 61643-11 / IEC 61643-1/-11 | 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 / 400 V |
| Max. continuous operating a.c. voltage (U_C) | 255 V |
| Lightning impulse current (10/350 μs) [L1+L2+L3+N-PE] (I_{total}) | 100 kA |
| Specific energy [L1+L2+L3+N-PE] (W/R) | 2.50 MJ/ohms |
| Lightning impulse current (10/350 μs) [L, N-PE] (I_{imp}) | 25 kA |
| Specific energy [L,N-PE] (W/R) | 156.25 kJ/ohms |
| Nominal discharge current (8/20 μs) (I_n) | 25 / 100 kA |
| Voltage protection level [L-PE]/[N-PE] (U_p) | $\leq 1.5\text{ kV} / \leq 1.5\text{ kV}$ |
| Follow current extinguishing capability a.c. (I_{fi}) | 50 kA _{rms} |
| Response time (t_n) | $\leq 100\text{ ns}$ |
| Follow current limitation/Selectivity | no tripping of a 20 A gL/gG fuse up to 50 kA _{rms} (prosp.) |
| Max. backup fuse (L) up to $I_K = 50\text{ kA}_{\text{rms}}$ | 315 A gL/gG |
| Max. backup fuse (L-L') | 125 A gL/gG |
| Temporary overvoltage (TOV) [L-N] (U_T) | 440 V / 5 sec. |
| 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 (L1, L1', L2, L2', L3, L3', N, N', PE, \neq) (min.) | 10 mm ² solid/flexible |
| Cross-sectional area (L1, L2, L3, N, PE) (max.) | 50 mm ² stranded/35 mm ² flexible |
| Cross-sectional area (L1', L2', L3', N', \neq) (max.) | 35 mm ² stranded/25 mm ² 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 | 8 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 ² solid/flexible |
| Extended technical data: | Use in installations with prospective short-circuit currents of more than 50 kA_{rms} (tested by VDE) |
| - Maximum prospective short-circuit current | 100 kA _{rms} (220 kA _{peak}) |
| - Limitation/extinction of mains follow currents | up to 100 kA _{rms} (220 kA _{peak}) |
| - Max. backup fuse (L) up to $I_K = 100\text{ kA}_{\text{rms}}$ | 315 A gL/gG |
| Weight | 1,36 kg |
| Customs tariff number | 85363030 |
| GTIN | 4013364108165 |
| 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.