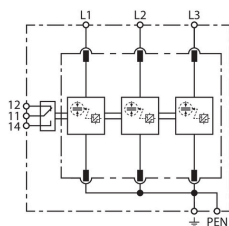


DV M2 TNC 255 FM (956 305)

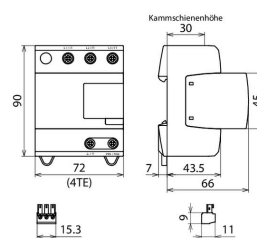
- Prewired type 1, type 2 and type 3 spark-gap-based combined arrester consisting of a base part and plug-in protection modules
- Compact unit meets maximum safety requirements thanks to Rapid Arc Control (RAC)
- Capable of protecting terminal equipment



Figure without obligation



Basic circuit diagram DV M2 TNC 255 FM



Dimension drawing DV M2 TNC 255 FM

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

| Type Part No. | DV M2 TNC 255 FM 956 305 |
|---|---|
| SPD according to EN 61643-11 / IEC 61643-11 | type 1 + type 2 + type 3 / class I + class II + class III |
| Energy coordination with terminal equipment (≤ 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) | 255 V (50 / 60 Hz) |
| Lightning impulse current (10/350 μ s) [L1+L2+L3-PEN] (I_{total}) | 75 kA |
| Lightning impulse current (10/350 μ s) [L-PEN] (I_{imp}) | 25 kA |
| Specific energy [L-PEN] (W/R) | 156.25 kJ/ohms |
| Nominal discharge current (8/20 μ s) [L-PEN] (I_n) | 25 kA |
| Voltage protection level (U_P) | ≤ 1.5 kV |
| Open-circuit voltage of the combination wave generator (U_{OC}) | 6 kV |
| Follow current extinguishing capability (a.c.) (I_f) | 50 kA _{rms} |
| Follow current limitation / Selectivity | No tripping of a 35 A gG fuse up to 50 kA _{rms} (prosp.) |
| Short-circuit current rating [L-N]/[N-PE] (I_{SCCR}) | 50 kA _{rms} |
| Response time (t_A) | ≤ 100 ns |
| Max. backup fuse (L) up to $I_K = 50$ kA _{rms} | 250 A gG |
| Temporary overvoltage (TOV) (U_T) – Characteristic | 440 V / 120 min. – withstand |
| Let-through energy with an S20K275 ($I_{imp} = 2.5$ to 25 kA) | < 1 J |
| 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, L2, L3, PEN, \pm) (min.) | 6 mm ² solid / fine-stranded |
| Cross-sectional area (L1, L2, L3, PEN, \pm) (max.) | 35 mm ² stranded / 25 mm ² fine-stranded |
| For mounting on | 35 mm DIN rails acc. to EN 60715 |
| Place of installation | indoor installation |
| Degree of protection | IP 20 |
| Capacity | 4 module(s), DIN 43880 |
| Approvals | VDE, KEMA, UL |
| Type of remote signalling contact | yes / 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 ² solid / fine-stranded |
| Extended technical data: | Use in switchgear installations with prospective short-circuit currents of more than 50 kA _{rms} |
| – Max. prospective short-circuit current | 100 kA _{rms} (220 kA _{peak}) |
| – Limiting/cancelling of mains follow currents | up to 100 kA _{rms} (220 kA _{peak}) |
| – Max. backup fuse (L) up to $I_K = 100$ kA _{rms} | 250 A gG |

Use for 16.7 Hz traction power supply systems

| Type | DV M2 TNC 255 FM |
|---|--------------------|
| Part No. | 956 305 |
| – Test voltage AC (U_c) | 266 V |
| – Nominal voltage (a.c.) (U_N) | 230 / 400 V |
| – Nominal frequency (a.c.) (f_N) | 16.7 Hz |
| – Max. backup fuse | 160 A gG @ 16,7 Hz |
| Weight | 459 g |
| Customs tariff number (Comb. Nomenclature EU) | 85363090 |
| GTIN | 4013364510586 |
| 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.