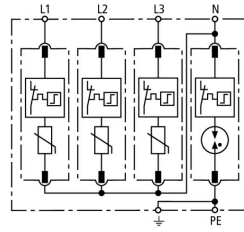


DG M TT 275 (952 310)

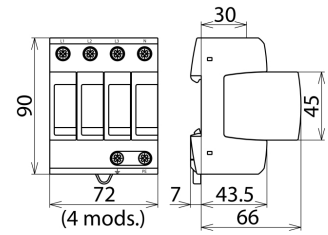
- Prewired complete unit consisting of a base part and plug-in protection modules
- High discharge capacity due to heavy-duty zinc oxide varistors / spark gaps
- High reliability due to "Thermo Dynamic Control" SPD monitoring device



Figure without obligation



Basic circuit diagram DG M TT 275



Dimension drawing DG M TT 275

Modular surge arrester for use in TT and TN-S systems (3+1 configuration).

| Type Part No. | DG M TT 275 952 310 |
|--|---|
| SPD according to EN 61643-11 / IEC 61643-11 | type 2 / class II |
| Energy coordination with terminal equipment (≤ 10 m) | type 2 + type 3 |
| Nominal voltage (a.c.) (U_N) | 230 / 400 V (50 / 60 Hz) |
| Max. continuous operating voltage (a.c.) [L-N] (U_C) | 275 V (50 / 60 Hz) |
| Max. continuous operating voltage (a.c.) [N-PE] (U_C) | 255 V (50 / 60 Hz) |
| Nominal discharge current (8/20 μ s) (I_n) | 20 kA |
| Max. discharge current (8/20 μ s) (I_{max}) | 40 kA |
| Voltage protection level [L-N]/[N-PE] (U_p) | ≤ 1.5 / ≤ 1.5 kV |
| Voltage protection level [L-N]/[N-PE] at 5 kA (U_p) | ≤ 1 / ≤ 1.5 kV |
| Follow current extinguishing capability [N-PE] (I_n) | 100 A _{rms} |
| Response time [L-N] (t_A) | ≤ 25 ns |
| Response time [N-PE] (t_A) | ≤ 100 ns |
| Max. mains-side overcurrent protection | 125 A gG |
| Short-circuit withstand capability for max. mains-side overcurrent protection (I_{SCCR}) | 50 kA _{rms} |
| Temporary overvoltage (TOV) [L-N] (U_T) – Characteristic | 335 V / 5 sec. – withstand |
| Temporary overvoltage (TOV) [L-N] (U_T) – Characteristic | 440 V / 120 min. – safe failure |
| Temporary overvoltage (TOV) [N-PE] (U_T) – Characteristic | 1200 V / 200 ms – withstand |
| Operating temperature range (T_U) | -40 °C ... +80 °C |
| Operating state / fault indication | green / red |
| Number of ports | 1 |
| Cross-sectional area (min.) | 1.5 mm ² solid / flexible |
| Cross-sectional area (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 | 4 module(s), DIN 43880 |
| Approvals | KEMA, VDE, UL |
| Extended technical data: | ----- |
| Lightning impulse current (10/350 μ s) [N-PE] (I_{imp}) | 12 kA |
| Voltage protection level [L-PE] (U_p) | 1.5 kV |

Arrester use at 16.7 Hz – traction power supply systems

| Type Part No. | DG M TT 275 952 310 |
|---|------------------------|
| – Test voltage AC (U_C) | 275 V |
| – Nominal AC voltage (U_N) | 230 / 400 V |
| – Nominal frequency AC (f_N) | 16.7 Hz |
| Weight | 405 g |
| Customs tariff number (Comb. Nomenclature EU) | 85363030 |
| GTIN | 4013364108479 |
| 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.