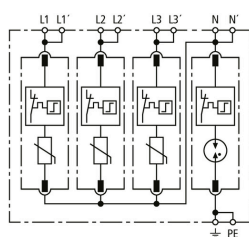


**NEW DG MP TT 275 (942 310)**

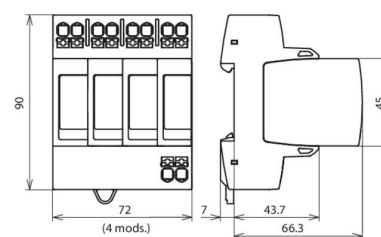
- Prewired complete unit consisting of a base part with push-in connection system and plug-in protection modules
- High discharge capacity due to heavy-duty zinc oxide varistors / spark gaps
- High reliability due to "Thermo Dynamic Control" SPD monitoring device



Figure without obligation



Basic circuit diagram DG MP TT 275



Dimension drawing DG MP TT 275

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

| Type                                                                                                | DG MP TT 275                           |
|-----------------------------------------------------------------------------------------------------|----------------------------------------|
| Part No.                                                                                            | 942 310                                |
| SPD according to EN 61643-11 / IEC 61643-11                                                         | type 2 + type 3 / class II + class III |
| Energy coordination with terminal equipment ( $\leq 10$ 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 $\mu$ s) ( $I_n$ )                                                  | 20 kA                                  |
| Max. discharge current (8/20 $\mu$ s) ( $I_{max}$ )                                                 | 40 kA                                  |
| Combination wave [L-N] ( $U_{oc}$ )                                                                 | 20 kV                                  |
| Combination wave [N-PE] ( $U_{oc}$ )                                                                | 6 kV                                   |
| Nominal load current for "V-connection" ( $I_L$ )                                                   | 40 A                                   |
| Voltage protection level [L-N]/[N-PE] ( $U_p$ )                                                     | $\leq 1.5$ / $\leq 1.5$ kV             |
| Voltage protection level [L-N]/[N-PE] at 5 kA ( $U_p$ )                                             | $\leq 1$ / $\leq 1.5$ kV               |
| Follow current extinguishing capability [N-PE] ( $I_{fi}$ )                                         | 100 A <sub>rms</sub>                   |
| Response time [L-N] ( $t_A$ )                                                                       | $\leq 25$ ns                           |
| Response time [N-PE] ( $t_A$ )                                                                      | $\leq 100$ ns                          |
| Max. mains-side overcurrent protection with "V-connection"                                          | 40 A gG                                |
| Max. mains-side overcurrent protection with stub wiring (double connection 2 x 10 mm <sup>2</sup> ) | 125 A gG                               |
| Short-circuit withstand capability for max. mains-side overcurrent protection ( $I_{SCCR}$ )        | 50 kA <sub>rms</sub>                   |
| 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 <sup>2</sup> solid              |
| Cross-sectional area (min.)                                                                         | 6 mm <sup>2</sup> flexible             |
| Cross-sectional area (max.)                                                                         | 10 mm <sup>2</sup> solid / flexible    |
| Cross-sectional area (min.) with wire end ferrule                                                   | 1.5 mm <sup>2</sup>                    |
| Cross-sectional area (max.) with wire end ferrule                                                   | 6 mm <sup>2</sup>                      |
| Cross-sectional area (max.) with wire end ferrule without collar                                    | 10 mm <sup>2</sup>                     |
| 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                              |
| Extended technical data:                                                                            |                                        |
| Lightning impulse current (10/350 $\mu$ s) [N-PE] ( $I_{imp}$ )                                     | 12 kA                                  |
| Voltage protection level [L-PE] ( $U_p$ )                                                           | 1.5 kV                                 |
| Weight                                                                                              | 344 g                                  |
| Customs tariff number (Comb. Nomenclature EU)                                                       | 85363030                               |
| GTIN                                                                                                | 4013364484108                          |
| 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.