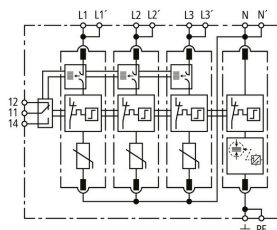


## DG MP TT ACI 275 FM (942 341)

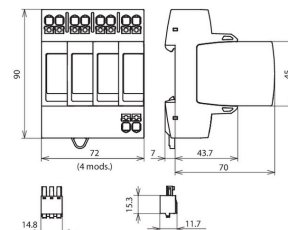
- Prewired complete unit consisting of a base part and remote signalling contact connection with push-in connection system and plug-in protection modules
- ACI switch / spark gap combination integrated in the protection module
- High device reliability due to "Thermo Dynamic Control" arrester monitoring and ACI technology
- No backup protection device required due to ACI technology
- Smaller connection cross-section of 6 mm<sup>2</sup> always sufficient



Figure without obligation



Basic circuit diagram DG MP TT ACI 275 FM



Dimension drawing DG MP TT ACI 275 FM

Modular surge arrester with Advanced Circuit Interruption (ACI) for TT and TN-S systems (3+1 configuration).

| Type                                                                                                | DG MP TT ACI 275 FM                        |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------|
| Part No.                                                                                            | 942 341                                    |
| SPD according to EN 61643-11 / IEC 61643-11                                                         | type 2 / class II                          |
| Energy coordination with terminal equipment ( $\leq 10$ m)                                          | type 2 + type 3                            |
| Nominal a.c. voltage ( $U_N$ )                                                                      | 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) [L-N] ( $I_n$ )                                            | 20 kA                                      |
| Nominal discharge current (8/20 $\mu$ s) [N-PE] ( $I_n$ )                                           | 20 kA                                      |
| 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 ( $U_P$ )                                             | $\leq 1.5$ / $\leq 1.5$ kV                 |
| Follow current extinguishing capability [N-PE] ( $I_h$ )                                            | 100 A <sub>rms</sub>                       |
| Response time [L-N] ( $t_A$ )                                                                       | $\leq 100$ ns                              |
| Response time [N-PE] ( $t_A$ )                                                                      | $\leq 100$ ns                              |
| Additional external fuse                                                                            | no                                         |
| Short-circuit withstand capability ( $I_{SCCR}$ )                                                   | 25 kA <sub>rms</sub>                       |
| 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> ) | none                                       |
| 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. – withstand               |
| Temporary overvoltage (TOV) [N-PE] ( $U_T$ ) – Characteristic                                       | 1200 V / 200 ms – withstand                |
| Leakage current                                                                                     | no leakage current                         |
| 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                                  |
| Type of remote signalling contact                                                                   | 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 <sup>2</sup> solid / flexible  |
| Weight                                                                                              | 378 g                                      |
| Customs tariff number (Comb. Nomenclature EU)                                                       | 85363030                                   |
| GTIN                                                                                                | 4013364477186                              |

Product Data Sheet: DEHNguard modular with Advanced Circuit Interruption (Safe Dimensioning)



|          |                     |
|----------|---------------------|
| Type     | DG MP TT ACI 275 FM |
| Part No. | 942 341             |
| 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.