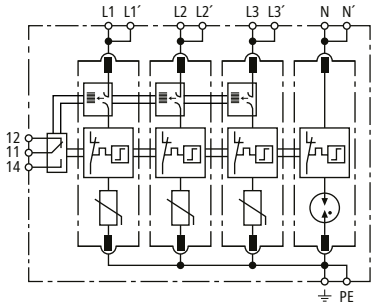
# DEHNguard modular with Advanced Circuit Interruption (Safe Dimensioning)

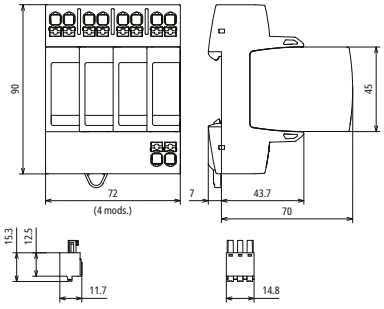
## DG MP TNS ACI 275 FM (942440)

- Prewired complete unit consisting of a base part with remote signalling contact connection with push-in connection terminal 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 fuse necessary due to ACI technology
- Small cross-sectional area of 6 mm² always sufficient






Basic circuit diagram




Dimension drawing

Modular surge arrester with Advanced Circuit Interruption (ACI) for TN-S systems.

| Type | DG MP TNS ACI 275 FM |
|---|---|
| **Part No.** | **942440** |
| 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-PE] ($U_C$) | 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 µs) ($I_n$) | 20 kA |
| Nominal load current for “V-connection” ($I_L$) | 40 A |
| Voltage protection level [L-PE]/[N-PE] ($U_P$) | ≤ 1.5 / ≤ 1.5 kV |
| Voltage protection level [L-PE]/[N-PE] at 5 kA ($U_P$) | ≤ 1.5 / ≤ 1.5 kV |
| Response time ($t_A$) | ≤ 100 ns |
| Additional external fuse necessary | no |
| Short-circuit withstand capability ($I_{SCCR}$) | 25 $kA_{rms}$ |
| Max. mains-side overcurrent protection with “V-connection” | 40 A gG |
| Max. mains-side overcurrent protection with stub wiring (double connection 2 x 10 mm²) | none |
| Temporary overvoltage ($U_T$) – characteristic | 335 V / 5 sec. – withstand<br>440 V / 120 min. – 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 mm² solid<br>6 mm² flexible |
| Cross-sectional area (max.) | 10 mm² solid / flexible |
| Cross-sectional area (min.) with wire end ferrule | 1.5 mm² |
| Cross-sectional area (max.) with wire end ferrule | 6 mm² |
| Cross-sectional area (max.) with wire end ferrule without collar | 10 mm² |
| 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 Standard DIN module, DIN 43880 |
| Approvals | KEMA, VDE |
| Type of remote signalling contact | changeover contact |
| Switching capacity (a.c.) | 250 V / 0.5 A |

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: Tested • NEU: New • !: Discontinued Model
: Cross connector • : Longitudinal connector • : Parallel connector • : T connector • : Clamp for parallel connector • : Clamp for T connector
: Pipe clamp for parallel connector • : Pipe clamp for T connector • : Equipotential bonding bar • : Bridging component

| | |
|---|---|
| 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 mm² solid / flexible |

| **Masterdata** | |
|---|---|
| Net weight | 377.08 g/pc(s) |
| Customs tariff number (Comb. Nomenclature EU) | 85363030 |
| GTIN | 4013364477148 |
| PU | 1 pc(s) |

We reserve the right to make changes to the design and technology, dimensions, weights and materials in the interests of technical progress. The illustrations are not binding.

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