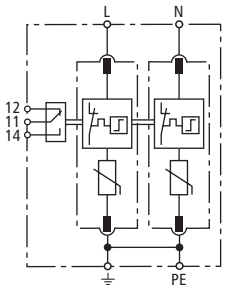
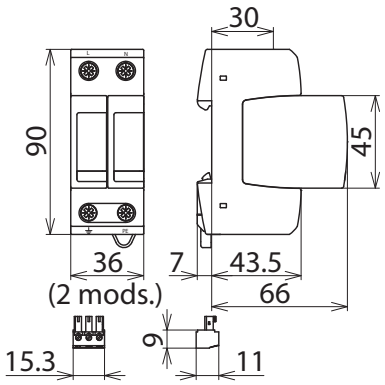
# DG M TN 150 FM (952 206)

- 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






Basic circuit diagram




Dimension drawing

Modular surge arrester for use in single-phase TN systems; with floating remote signalling contact.

| **Type** | **DG M TN 150 FM** |
|---|---|
| **Part No.** | **952 206** |
| **Standards** | |
| Certification | UL |
| UL Standard | UL 1449 5th edition |
| UL File Number | E319777 |
| **Test values according to UL 1449** | |
| Mode | L-N/L-G/N-G |
| Rated Voltage (AC, 50/60 Hz) | 120 V |
| MCOV (AC, 50/60 Hz) [L-N]/[L-G]/[N-G] | 150 V |
| MLV (AC, 50/60 Hz) [L-N]/[L-G]/[N-G] | 1410/1180/1180 V |
| Nominal discharge current (8/20µs) ( $I_n$) | 20 kA |
| Maximum ambient temperature | +80 °C |
| AWG (conductors) | 4-14 Cu solid/stranded |
| Torque (conductors) | 35-45 Lbs-in |
| AWG (remote indicator) | 14-22 |
| Torque (remote indicator) | 3 Lbs-in |
| UL 1449 edition | 5th edition |
| Type (SPD classification) | Type 4 component assembly |
| **Technical data** | |
| 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.) ($U_N$) | 120 V (50 / 60 Hz) |
| Max. continuous operating voltage (AC) ($U_C$) | 150 V (50 / 60 Hz) |
| Nominal discharge current (8/20 µs) ($I_n$) | 15 kA |
| Max. discharge current (8/20 µs) ($I_{max}$) | 40 kA |
| Voltage protection level [L-PE]/[N-PE] ($U_p$) | ≤ 0.7 / ≤ 0.7 kV |
| Voltage protection level [L-PE]/[N-PE] at 5 kA ($U_p$) | ≤ 0.55 / ≤ 0.55 kV |
| Response time ($t_A$) | ≤ 25 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 ($U_T$) – characteristic | 175 V / 5 sec. – Festigkeit<br>230 V / 120 min. – sicherer Ausfall |
| 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 |

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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

| Technical data | |
|---|---|
| Place of installation | indoor installation |
| Degree of protection | IP 20 |
| Capacity | 2 Standard DIN module, DIN 43880 |
| Approvals | KEMA, UL |
| 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 $mm^2$ solid / flexible |

| Masterdata | |
|---|---|
| Net weight | 217.1 g/pc(s) |
| GTIN | 4013364123922 |
| PU | 1 pc(s) |
| Customs tariff number (Comb. Nomenclature EU) | 85363030 |

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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