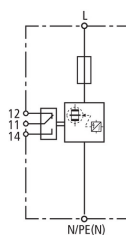


## DVCI 1 255 FM (961 205)

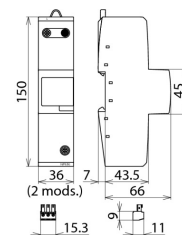
- Spark-gap-based combined lightning current and surge arrester with integrated backup fuse capable of carrying lightning currents
- Maximum system availability due to RADAX Flow follow current limitation
- Capable of protecting terminal equipment



Figure without obligation



Basic circuit diagram DVCI 1 255 FM



Dimension drawing DVCI 1 255 FM

Combined lightning current and surge arrester with integrated lightning current carrying backup fuse.

| Type                                                       | DVCI 1 255 FM                                                                                                                            |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Part No.                                                   | 961 205                                                                                                                                  |
| SPD according to EN 61643-11 / IEC 61643-11                | type 1 + type 2 / class I + class II                                                                                                     |
| Energy coordination with terminal equipment                | type 1 + type 2                                                                                                                          |
| Energy coordination with terminal equipment ( $\leq 10$ m) | type 1 + type 2 + type 3                                                                                                                 |
| Nominal voltage (a.c.) ( $U_N$ )                           | 230 V (50 / 60 Hz)                                                                                                                       |
| Maximum continuous operating voltage (a.c.) ( $U_C$ )      | 255 V (50 / 60 Hz)                                                                                                                       |
| Lightning impulse current (10/350 $\mu$ s) ( $I_{imp}$ )   | 25 kA                                                                                                                                    |
| Specific energy (W/R)                                      | 156.25 kJ/ohms                                                                                                                           |
| Nominal discharge current (8/20 $\mu$ s) ( $I_n$ )         | 25 kA                                                                                                                                    |
| Voltage protection level ( $U_P$ )                         | $\leq 1.5$ kV                                                                                                                            |
| Follow current extinguishing capability (a.c.) ( $I_n$ )   | 50 kA <sub>rms</sub>                                                                                                                     |
| Follow current limitation / Selectivity                    | no tripping of a 20 A gG fuse up to 50 kA <sub>rms</sub> (prosp.)                                                                        |
| Response time ( $t_a$ )                                    | $\leq 100$ ns                                                                                                                            |
| Max. mains-side overcurrent protection                     | integrated backup fuse                                                                                                                   |
| Rated breaking capacity of the internal backup protection  | 100 kA                                                                                                                                   |
| Temporary overvoltage (TOV) ( $U_T$ ) – Characteristic     | 440 V / 120 min. – withstand                                                                                                             |
| Operating temperature range ( $T_U$ )                      | -40 °C ... +80 °C                                                                                                                        |
| Operating state / fault indication                         | green / red                                                                                                                              |
| Number of ports                                            | 1                                                                                                                                        |
| Cross-sectional area (L, N/PE(N)) (min.)                   | 10 mm <sup>2</sup> solid / flexible                                                                                                      |
| Cross-sectional area (L, N/PE(N)) (max.)                   | 50 mm <sup>2</sup> stranded / 35 mm <sup>2</sup> 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                                                   | 2 module(s), DIN 43880                                                                                                                   |
| Approvals                                                  | KEMA                                                                                                                                     |
| 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                                                                                                |
| Extended technical data:                                   | For use in switchgear installations with prospective short-circuit currents of more than 50 kA <sub>rms</sub> (tested by the German VDE) |
| – Max. prospective short-circuit current                   | 100 kA <sub>rms</sub> (220 kA <sub>peak</sub> )                                                                                          |
| – Limitation / Extinction of mains follow currents         | up to 100 kA <sub>rms</sub> (220 kA <sub>peak</sub> )                                                                                    |
| Weight                                                     | 435 g                                                                                                                                    |
| Customs tariff number (Comb. Nomenclature EU)              | 85363090                                                                                                                                 |
| GTIN                                                       | 4013364145115                                                                                                                            |
| 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.