

DMI 42 10 1 H (990 211)

DEHNmid medium-voltage arrester for protecting transformers, switchgear installations and transmission lines against atmospheric and switching overvoltage as per IEC / EN 60099-4. High-temperature vulcanised silicone housing for outdoor use prevents the formation of water and pollution layers. Long service life thanks to powerful metal oxide varistors.

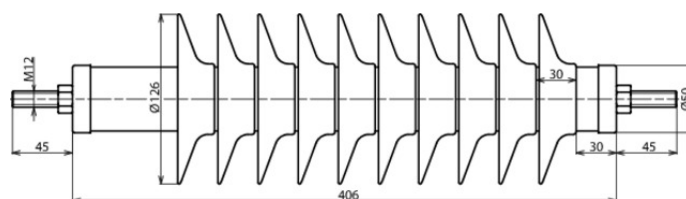


Figure without obligation

Dimension drawing DMI 42 10 1 H

| Type Part No. | DMI 42 10 1 H 990 211 |
|---|---|
| Nominal discharge current (8/20 µs) (I_n) | 10 kA |
| High current impulse (4/10 µs) | 100 kA |
| Overload capacity | 20 kA |
| Line discharge class (1) | 1 (2.8 kJ/kV U_r) |
| Long-duration current impulse (1) | 250 A / 2000 µs |
| Rated voltage (a.c.) (U_r) | 42 kV |
| Continuous operating voltage (a.c.) (MCOV) (U_c) | 33.6 kV |
| Temporary overvoltage (TOV) at 1 sec. (U_{1s}) | 48.3 kV |
| Temporary overvoltage (TOV) at 10 sec. (U_{10s}) | 45.8 kV |
| Residual voltage at 10 kA (1/2 µs) (\hat{u}_{res}) | 124.1 kV |
| Residual voltage at 5 kA (8/20 µs) (\hat{u}_{res}) | 107.9 kV |
| Residual voltage at 10 kA (8/20 µs) (\hat{u}_{res}) | 116.0 kV |
| Residual voltage at 20 kA (8/20 µs) (\hat{u}_{res}) | 128.8 kV |
| Residual voltage at 40 kA (8/20 µs) (\hat{u}_{res}) | 145.0 kV |
| Residual voltage at 125 A (40/100 µs) (\hat{u}_{res}) | 84.7 kV |
| Residual voltage at 250 A (40/100 µs) (\hat{u}_{res}) | 87.3 kV |
| Residual voltage at 500 A (40/100 µs) (\hat{u}_{res}) | 90.5 kV |
| Residual voltage at 1000 A (40/100 µs) (\hat{u}_{res}) | 94.0 kV |
| Residual voltage at 2000 A (40/100 µs) (\hat{u}_{res}) | 98.6 kV |
| Insulation of arrester housing / nominal power frequency withstand voltage (dry) (U_{PFWL}) | 142 kV |
| Insulation of arrester housing / nominal power frequency withstand voltage (wet) (U_{PFWL}) | 94 kV |
| Insulation of arrester housing / nominal lightning withstand voltage (U_{LWL}) | 206 kV |
| Height (h) | 406 mm |
| Shield spacing (h_1) | 30 mm |
| Number of shields | 10 |
| Creepage distance (+/- 5%) | 1132 mm |
| Torsional strength | 78 Nm |
| Maximum permissible dynamic service load (MPDSL) | 230 Nm |
| Tensile strength | 1400 N |
| Ambient temperature (T_A) | -40 °C ... +55 °C |
| Altitude | up to 1000 m above sea level |
| Power frequency (f_n) | 16-62 Hz |
| Housing material | HTV silicone housing |
| Colour | auburn, RAL 3013 |
| Fittings | terminals, screws and nuts of stainless steel |
| Conductor clamp | up to Ø16 mm |
| Test standards | IEC 60099-4 |
| Weight | 3,4 kg |
| Customs tariff number (Comb. Nomenclature EU) | 85354000 |
| GTIN | 4013364103047 |
| 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.