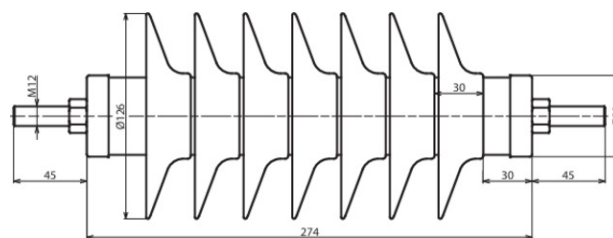


DMI 31 10 1 H (990 207)

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.



Dimension drawing DMI 31 10 1 H

Figure without obligation

Type Part No.	DMI 31 10 1 H 990 207
Nominal discharge current (8/20 μ s) (I_n)	10 kA
High current impulse (4/10 μ s)	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 μ s
Rated voltage (a.c.) (U_r)	31 kV
Continuous operating voltage (a.c.) (MCOV) (U_c)	25.0 kV
Temporary overvoltage (TOV) at 1 sec. (U_{1s})	35.7 kV
Temporary overvoltage (TOV) at 10 sec. (U_{10s})	33.8 kV
Residual voltage at 10 kA (1/2 μ s) (\hat{u}_{res})	91.0 kV
Residual voltage at 5 kA (8/20 μ s) (\hat{u}_{res})	79.1 kV
Residual voltage at 10 kA (8/20 μ s) (\hat{u}_{res})	85.0 kV
Residual voltage at 20 kA (8/20 μ s) (\hat{u}_{res})	94.4 kV
Residual voltage at 40 kA (8/20 μ s) (\hat{u}_{res})	106.3 kV
Residual voltage at 125 A (40/100 μ s) (\hat{u}_{res})	62.1 kV
Residual voltage at 250 A (40/100 μ s) (\hat{u}_{res})	64.0 kV
Residual voltage at 500 A (40/100 μ s) (\hat{u}_{res})	66.3 kV
Residual voltage at 1000 A (40/100 μ s) (\hat{u}_{res})	68.9 kV
Residual voltage at 2000 A (40/100 μ s) (\hat{u}_{res})	72.3 kV
Insulation of arrester housing / nominal power frequency withstand voltage (dry) (U_{PFWL})	100 kV
Insulation of arrester housing / nominal power frequency withstand voltage (wet) (U_{PFWL})	66 kV
Insulation of arrester housing / nominal lightning withstand voltage (U_{LWL})	146 kV
Height (h)	274 mm
Shield spacing (h_1)	30 mm
Number of shields	7
Creepage distance (+/- 5%)	775 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
Colour	auburn, RAL 3013
Fittings	terminals, screws and nuts of stainless steel
Conductor clamp	up to \varnothing 16 mm
Test standards	IEC 60099-4
Weight	2,2 kg
Customs tariff number (Comb. Nomenclature EU)	85354000
GTIN	4013364103009
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.