

DMI 51 10 1 H (990 214)

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.

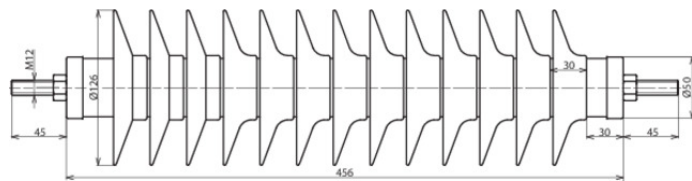


Figure without obligation

Dimension drawing DMI 51 10 1 H

Type	DMI 51 10 1 H
Part No.	990 214
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_{tr})
Long-duration current impulse (1)	250 A / 2000 μ s
Line discharge class (2)	2 (4.5 kJ/kV U_{tr})
Long-duration current impulse (2)	500 A / 2000 μ s
Rated voltage (a.c.) (U_r)	51 kV
Continuous operating voltage (a.c.) (MCOV) (U_c)	40.8 kV
Temporary overvoltage (TOV) at 1 sec. (U_{1s})	58.7 kV
Temporary overvoltage (TOV) at 10 sec. (U_{10s})	55.6 kV
Residual voltage at 10 kA (1/2 μ s) (\hat{u}_{res})	147.7 kV
Residual voltage at 5 kA (8/20 μ s) (\hat{u}_{res})	128.3 kV
Residual voltage at 10 kA (8/20 μ s) (\hat{u}_{res})	138.0 kV
Residual voltage at 20 kA (8/20 μ s) (\hat{u}_{res})	153.2 kV
Residual voltage at 40 kA (8/20 μ s) (\hat{u}_{res})	172.5 kV
Residual voltage at 125 A (40/100 μ s) (\hat{u}_{res})	100.7 kV
Residual voltage at 250 A (40/100 μ s) (\hat{u}_{res})	103.9 kV
Residual voltage at 500 A (40/100 μ s) (\hat{u}_{res})	107.6 kV
Residual voltage at 1000 A (40/100 μ s) (\hat{u}_{res})	111.8 kV
Residual voltage at 2000 A (40/100 μ s) (\hat{u}_{res})	117.3 kV
Insulation of arrester housing / nominal power frequency withstand voltage (dry) (U_{PFWL})	168 kV
Insulation of arrester housing / nominal power frequency withstand voltage (wet) (U_{PFWL})	112 kV
Insulation of arrester housing / nominal lightning withstand voltage (U_{LWL})	246 kV
Height (h)	456 mm
Shield spacing (h_1)	30 mm
Number of shields	13
Creepage distance (+/- 5%)	1407 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 \varnothing 16 mm
Test standards	IEC 60099-4
Weight	4 kg
Customs tariff number (Comb. Nomenclature EU)	85354000
GTIN	4013364103078
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.