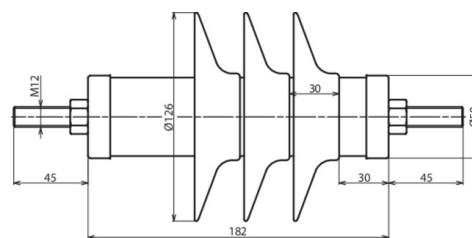


## DMI 18 10 1 H (990 202)

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 18 10 1 H

Figure without obligation

Type Part No.	DMI 18 10 1 H 990 202
Nominal discharge current (8/20 $\mu$ s) ( $I_n$ )	10 kA
High current impulse (4/10 $\mu$ s)	100 kA
Overload capacity	20 kA
Line discharge class (1)	1 (2.8 kJ/kV $U_{rf}$ )
Long-duration current impulse (1)	250 A / 2000 $\mu$ s
Rated voltage (a.c.) ( $U_r$ )	18 kV
Continuous operating voltage (a.c.) (MCOV) ( $U_c$ )	14.4 kV
Temporary overvoltage (TOV) at 1 sec. ( $U_{1s}$ )	20.7 kV
Temporary overvoltage (TOV) at 10 sec. ( $U_{10s}$ )	19.6 kV
Residual voltage at 10 kA (1/2 $\mu$ s) ( $\hat{u}_{res}$ )	52.4 kV
Residual voltage at 5 kA (8/20 $\mu$ s) ( $\hat{u}_{res}$ )	45.6 kV
Residual voltage at 10 kA (8/20 $\mu$ s) ( $\hat{u}_{res}$ )	49.0 kV
Residual voltage at 20 kA (8/20 $\mu$ s) ( $\hat{u}_{res}$ )	54.4 kV
Residual voltage at 40 kA (8/20 $\mu$ s) ( $\hat{u}_{res}$ )	61.3 kV
Residual voltage at 125 A (40/100 $\mu$ s) ( $\hat{u}_{res}$ )	35.8 kV
Residual voltage at 250 A (40/100 $\mu$ s) ( $\hat{u}_{res}$ )	36.9 kV
Residual voltage at 500 A (40/100 $\mu$ s) ( $\hat{u}_{res}$ )	38.2 kV
Residual voltage at 1000 A (40/100 $\mu$ s) ( $\hat{u}_{res}$ )	39.7 kV
Residual voltage at 2000 A (40/100 $\mu$ s) ( $\hat{u}_{res}$ )	41.7 kV
Insulation of arrester housing / nominal power frequency withstand voltage (dry) ( $U_{PFWL}$ )	64 kV
Insulation of arrester housing / nominal power frequency withstand voltage (wet) ( $U_{PFWL}$ )	42 kV
Insulation of arrester housing / nominal lightning withstand voltage ( $U_{LWL}$ )	92 kV
Height (h)	182 mm
Shield spacing ( $h_1$ )	30 mm
Number of shields	3
Creepage distance (+/- 5%)	383 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	1,5 kg
Customs tariff number (Comb. Nomenclature EU)	85354000
GTIN	4013364102958
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.