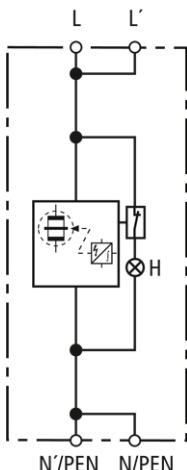


Dimension drawing DBM 1 255 L



Basic circuit diagram DBM 1 255 L



DBM 1 255 (L): Coordinated single-pole lightning current arrester with high follow current limitation for  $U_C = 255\text{ V}$ ; available with operating state indicator (L)

**Encapsulated RADAX Flow spark gap with high follow current limitation**

**No tripping of 32 A gL/gG fuses up to short-circuit currents of 50 kA<sub>rms</sub>**

**Lightning current discharge capacity: 50 kA (10/350 μs)**

**Directly coordinated with DEHNguard surge protective devices without additional cable length**

**Low voltage protection level**

**Double terminals for series connection**

**Multifunctional terminal for connecting conductors and busbars**

**DBM SN1500**

SPD according to EN 61643-11	Type 1
SPD according to IEC 61643-1	Class I
Max. continuous operating a.c. voltage [U <sub>C1</sub> ]	255 V
Lightning impulse current (10/350 μs) [I <sub>imp1</sub> ]	50 kA
Specific energy [W/R]	625.00 kJ/ohms
Nominal discharge current (8/20 μs) [I <sub>n1</sub> ]	50 kA
Voltage protection level [U <sub>p1</sub> ]	≤ 2.5 kV
Follow current extinguishing capability a.c. [I <sub>fl1</sub> ]	50 kA <sub>rms</sub>
Follow current limitation / Selectivity	no tripping of a 32 A gL/gG fuse up to 50 kA <sub>rms</sub> (prosp.)
Response time [t <sub>A1</sub> ]	≤ 100 ns
Max. backup fuse (L) up to I <sub>K</sub> = 25 kA <sub>rms</sub> (t <sub>a</sub> ≤ 0.2 s)	500 A gL/gG
Max. backup fuse (L) for I <sub>K</sub> > 50 kA <sub>rms</sub>	200 A gL/gG
Max. backup fuse (L-L')	125 A gL/gG
Temporary overvoltage (TOV) [U <sub>T1</sub> ]	335 V / 5 sec.
TOV characteristics	withstand
Operating temperature range (parallel connection) [T <sub>UP1</sub> ]	-40°C...+80°C
Operating temperature range (series connection) [T <sub>US1</sub> ]	-40°C...+60°C
Number of ports	1
Cross-sectional area (L, L', N/PEN, N'/PEN) [min.]	10 mm <sup>2</sup> solid/flexible
Cross-sectional area (L, N/PEN) [max.]	50 mm <sup>2</sup> stranded/35 mm <sup>2</sup> flexible
Cross-sectional area (L', N'/PEN) [max.]	35 mm <sup>2</sup> stranded/25 mm <sup>2</sup> flexible
For mounting on	35 mm DIN rail acc. to EN 60715
Enclosure material	thermoplastic, red, UL 94 V-0
Location category	indoor
Degree of protection	IP 20
Capacity	2 mods., DIN 43880

**Ordering information**

<b>Type</b>	DBM SN1500
<b>Part No.</b>	<b>900 025</b>
<b>Packing unit</b>	1 pc

We reserve the right to modify design, technology, dimensions, weights and materials according to technical progress. Illustrations are non-binding. Pictures may differ from the modules described.