



Dimension drawing DB 1 255 H / DB 3 255 H

Basic circuit diagram DB 1 255 H / DB 3 255 H

DB ... 255 H: Single-pole and three-pole lightning current arrester with high follow current limitation

Encapsulated RADAX Flow spark gap with high follow current limitation

"Wavebreaker function" allows for energy coordination with downstream varistor-based surge arresters, e.g. DEHNguard and/or the device to be protected

Can also be used upstream of meter panels due to its high insulation resistance

Double terminals for series connection

Discharge capacity of 50 kA per pole

DB 1 255 H

SPD according to EN 61643-11	Type 1
SPD according to IEC 61643-1	Class I
Nominal a.c. voltage [U _N]	230 V
Max. continuous operating a.c. voltage [U _{Cl}]	255 V
Lightning impulse current (10/350 µs) [I _{imp}]	50 kA
Specific energy [W/R]	625.00 kJ/ohms
Nominal discharge current (8/20 µs) [I _N]	50 kA
Voltage protection level [U _p]	≤ 4 kV
Follow current extinguishing capability a.c. [I _{fl}]	50 kA _{rms}
Follow current limitation / Selectivity	no tripping of a 32 A gL/gG fuse up to 50 kA _{rms} (prosp.)
Response time [t _A]	≤ 100 ns
Max. backup fuse up to I _k = 50 kA _{rms} (t _a ≤ 0.2 s)	500 A gL/gG
Max. backup fuse up to I _k = 50 kA _{rms} (t _a ≤ 5 s)	315 A gL/gG
Max. backup fuse for I _k > 50 kA _{rms}	200 A gL/gG
Max. backup fuse (L-L')	125 A gL/gG
Temporary overvoltage (TOV) [U _T]	335 V / 5 sec.
TOV characteristics	withstand
Operating temperature range (parallel connection) [T _{UP}]	-40°C...+80°C
Operating temperature range (series connection) [T _{US}]	-40°C...+60°C
Number of ports	1
Cross-sectional area (L, L', N/PEN, N'/PEN) [min.]	10 mm ² solid/flexible
Cross-sectional area (L, N/PEN) [max.]	50 mm ² stranded/35 mm ² flexible
Cross-sectional area (L', N'/PEN) [max.]	35 mm ² stranded/25 mm ² 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
Approvals, Certifications	KEMA, VDE

Ordering information

Type	DB 1 255 H
Part No.	900 222
Packing unit	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.