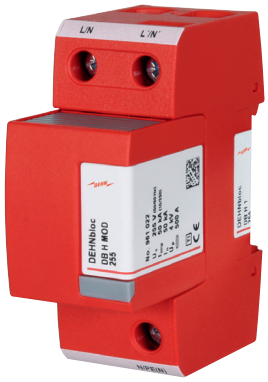
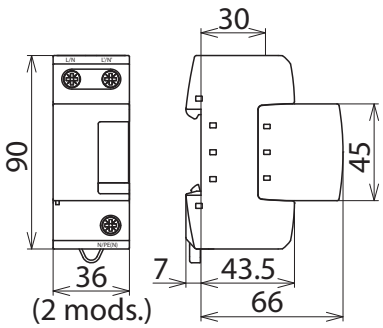
DBH M 1 255 (961 122)

- Encapsulated non-exhausting creepage discharge spark gap
- RADAX Flow spark gap technology with high follow current limitation
- Can also be used upstream meter panels due to high insulation resistance





Basic circuit diagram



Dimension drawing

Modular single-pole lightning current arrester with high follow current limitation for U_C = 255 V.

Type	DBH M 1 255
Part No.	**961 122**
SPD according to EN 61643-11 / IEC 61643-11	type 1 / class I
Nominal voltage (a.c.) (U_N)	230 V (50 / 60 Hz)
Max. continuous operating voltage (AC) (U_C)	255 V (50 / 60 Hz)
Lightning impulse current (10/350 µs) (I_{imp})	50 kA
Specific energy (W/R)	625.00 kJ/Ohm
Voltage protection level (U_p)	≤ 4 kV
Follow current extinguishing capability (a.c.) (I_{fi})	50 kA_{rms}
Follow current limitation / Selectivity	no tripping of a 32 A gG fuse up to 50 kA_{rms} (prosp.)
Response time (t_A)	≤ 100 ns
Max. backup fuse (L) up to I_K = 50 kA_{rms} (t_a ≤ 0.2 s)	500 A gG
Max. backup fuse (L) up to I_K = 50 kA_{eff} (t_a ≤ 5 s)	315 A gG
Max. backup fuse (L-L')	125 A gG
Temporary overvoltage (U_T) – characteristic	440 V / 120 min. – withstand
Operating temperature range (parallel connection) (T_{UP})	-40 °C ... +80 °C
Operating temperature range (through-wiring) (T_{US})	-40 °C ... +60 °C
Number of ports	1
Cross-sectional area (L/N, L'/N', N/PE(N)) (min.)	10 mm² solid/flexible
Cross-sectional area (L/N, N/PE(N)) (max.)	50 mm² stranded / 35 mm² flexible
Cross-sectional area (L'/N') (max.)	35 mm² stranded / 25 mm² flexible
For mounting on	35 mm DIN rails acc. to EN 60715
Enclosure material	thermoplastic, red, UL 94 V-0
Place of installation	indoor installation
Degree of protection	IP 20
Capacity	2 Standard DIN module, DIN 43880
Extended technical data	
Max. prospective short-circuit current	100 kA_{rms} (220 kA_{peak})
Limitation / Extinction of mains follow currents	up to 100 kA_{rms} (220 kA_{peak})
Max. backup fuse (L) up to I_K = 100 kA_{rms} (t_a ≤ 0.2 s)	500 A gG
Max. backup fuse (L) up to I_K = 100 kA_{rms} (t_a ≤ 5 s)	315 A gG

Masterdata	
Net weight	358.2 g/pc(s)
GTIN	4013364118652
PU	1 pc(s)
Customs tariff number (Comb. Nomenclature EU)	85363090

We reserve the right to make changes to the design and technology, dimensions, weights and materials in the interests of technical progress. The illustrations are not binding.

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: Tested • NEU: New • : Discontinued Model
: Cross connector • : Longitudinal connector • : Parallel connector • : T connector • : Clamp for parallel connector • : Clamp for T connector
: Pipe clamp for parallel connector • : Pipe clamp for T connector • : Equipotential bonding bar • : Bridging component