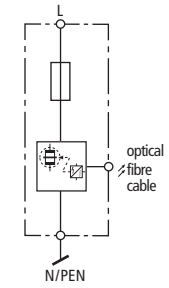
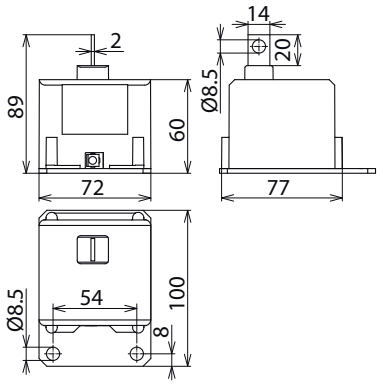
DBM 1 255 S (900 220)

- Combination of spark gap and integrated backup fuse
- For mounting directly onto the PEN / N busbar
- High follow current extinguishing capability and follow current limitation due to RADAX Flow technology





Basic circuit diagram



Dimension drawing

Coordinated single-pole lightning current arrester with integrated backup fuse for busbar installation.

Type	**DBM 1 255 S**
Part No.	**900 220**
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})	25 kA
Specific energy (W/R)	156.25 kJ/ohms
Voltage protection level (U_P)	≤ 2.5 kV (including 80 cm connecting cable)
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
Short-circuit withstand capability (I_{SCCR})	100 kA_{rms} (220 kA_{peak})
Max. mains-side overcurrent protection	not required
Rated breaking capacity of the internal backup protection	100 kA
Temporary overvoltage (U_T) – characteristic	440 V / 120 min. – withstand
Operating temperature range (T_U)	-40 °C ... +80 °C
Number of ports	1
For mounting on	PEN / N busbars min. 35 mm²
Connection	cable lug min. 35 mm² / max. 50 mm²
Enclosure material	thermoplastic, red, UL 94 V-0
Place of installation	indoor installation
Dimensions (B x H x D)	72 x 89 x 100 mm
Operating state indication	by optical fibre cables via DSI E 3
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})

Masterdata	
Net weight	698.7 g/pc(s)
GTIN	4013364106734
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.