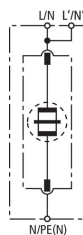


DBH M 1 255 (961 122)

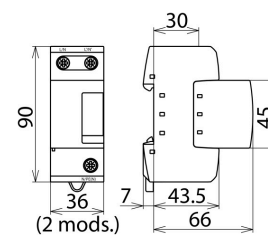
- Encapsulated non-exhausting creepage discharge spark gap
- RADAX Flow spark gap technology with high follow current limitation
- Can also be used upstream meter panels due to high insulation resistance



Figure without obligation



Basic circuit diagram DBH M 1 255



Dimension drawing DBH M 1 255

Modular single-pole lightning current arrester with high follow current limitation for $U_c = 255 \text{ V}$.

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 (a.c.) (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)	$\leq 4 \text{ kV}$
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)	$\leq 100 \text{ ns}$
Max. backup fuse (L) up to $I_K = 50 \text{ kA}_{\text{rms}}$ ($t_a \leq 0.2 \text{ s}$)	500 A gG
Max. backup fuse (L) up to $I_K = 50 \text{ kA}_{\text{rms}}$ ($t_a \leq 5 \text{ s}$)	315 A gG
Max. backup fuse (L-L')	125 A gG
Temporary overvoltage (TOV) (U_T) – Characteristic	440 V / 120 min. – withstand
Operating temperature range (parallel connection) (T_{UP})	$-40 \text{ }^\circ\text{C} \dots +80 \text{ }^\circ\text{C}$
Operating temperature range (series connection) (T_{US})	$-40 \text{ }^\circ\text{C} \dots +60 \text{ }^\circ\text{C}$
Number of ports	1
Cross-sectional area (L/N, L'/N', N/PE(N)) (min.)	10 mm^2 solid/flexible
Cross-sectional area (L/N, N/PE(N)) (max.)	50 mm^2 stranded / 35 mm^2 flexible
Cross-sectional area (L'/N') (max.)	35 mm^2 stranded / 25 mm^2 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 module(s), DIN 43880
Extended technical data:	Use in switchgear installations with prospective short-circuit currents of more than 50 kArms (tested by the German VDE)
– 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 $I_K = 100 \text{ kA}_{\text{rms}}$ ($t_a \leq 0.2 \text{ s}$)	500 A gG
– Max. backup fuse (L) up to $I_K = 100 \text{ kA}_{\text{rms}}$ ($t_a \leq 5 \text{ s}$)	315 A gG
Weight	358 g
Customs tariff number (Comb. Nomenclature EU)	85363090
GTIN	4013364118652
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.