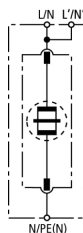


DBH M 1 255 (961 122)

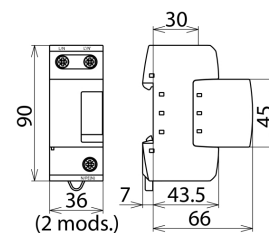
- Encapsulated non-exhausting creepage discharge spark gap
- RADAX Flow spark gap technology with high follow current limitation
- Can also be used upstream meter panels due to high insulation resistance



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	Type 1
SPD according to IEC 61643-1/-11	Class I
Nominal a.c. voltage (U_N)	230 V
Max. continuous operating a.c. voltage (U_C)	255 V
Lightning impulse current (10/350 μs) (I_{imp})	50 kA
Nominal discharge current (8/20 μs) (I_N)	50 kA
Voltage protection level (U_P)	$\leq 4 \text{ kV}$
Follow current extinguishing capability a.c. (I_R)	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)	$\leq 100 \text{ ns}$
Max. backup fuse (L) up to $I_K = 50 \text{ kA}_{\text{rms}}$ ($t_a \leq 0.2 \text{ s}$)	500 A gL/gG
Max. backup fuse (L) up to $I_K = 50 \text{ kA}_{\text{rms}}$ ($t_a \leq 5 \text{ s}$)	315 A gL/gG
Max. backup fuse (L-L')	125 A gL/gG
Temporary overvoltage (TOV) (U_T)	440 V / 5 sec.
TOV characteristic	withstand
Operating temperature range (parallel connection) (T_{UP})	$-40^\circ\text{C} \dots +80^\circ\text{C}$
Operating temperature range (series connection) (T_{US})	$-40^\circ\text{C} \dots +60^\circ\text{C}$
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 installations with prospective short-circuit currents of more than 50 kA_{rms} (tested by VDE)
– Maximum 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 gL/gG
– Max. backup fuse (L) up to $I_K = 100 \text{ kA}_{\text{rms}}$ ($t_a \leq 5 \text{ s}$)	315 A gL/gG
Weight	358 g
Customs tariff number	85363030
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.