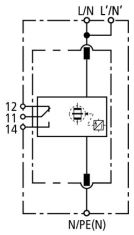
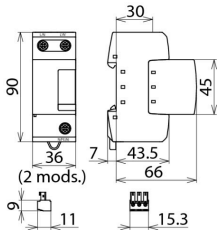
DB M 1 255 FM (961 125)

- Coordinated spark-gap-based lightning current arrester consisting of a base part and a plug-in protection module
- Maximum system availability due to RADAX Flow follow current limitation
- Without additional cable length directly coordinated with DEHNguard surge protective device

Figure without obligation



Basic circuit diagram DB M 1 255 FM



Dimension drawing DB M 1 255 FM

Coordinated and modular single-pole lightning current arrester with high follow current limitation; with remote signalling contact for the monitoring system (floating changeover contact).

Type Part No.	DB M 1 255 FM 961 125
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/ohms
Voltage protection level (U_P)	≤ 2.5 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_{rms} (t_a ≤ 5 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 °C ... +80 °C
Operating temperature range (series connection) (T_{US})	-40 °C ... +60 °C
Operating state / fault indication	green / red
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
Approvals	VDE, KEMA, UL
Type of remote signalling contact	changeover contact
Switching capacity (a.c.)	250 V / 0.5 A
Switching capacity (d.c.)	250 V / 0.1 A; 125 V / 0.2 A; 75 V / 0.5 A
Cross-sectional area for remote signalling terminals	max. 1.5 mm^2 solid / flexible
Extended technical data:	Use in switchgear installations with prospective short-circuit currents of more than 50 kA_{rms} (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 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
Supplementary data:	----------
– Nominal discharge current (8/20 µs) (I_n)	50 kA
Weight	343 g
Customs tariff number (Comb. Nomenclature EU)	85363090
GTIN	4013364118621
PU	1 pc(s)