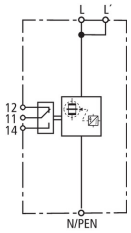
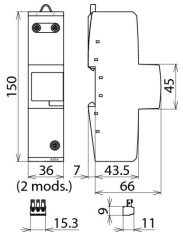
DBM 1 440 FM (961 145)

- Extremely high lightning current discharge capacity
- High follow current extinction and limitation due to RADAX Flow technology
- Directly coordinated with DEHNguard surge protective devices without additional cable length

Figure without obligation



Basic circuit diagram DBM 1 440 FM



Dimension drawing DBM 1 440 FM

Coordinated single-pole lightning current arrester with high follow current limitation for U_C = 440 V.

Type Part No.	DBM 1 440 FM 961 145
SPD according to EN 61643-11 / IEC 61643-11	type 1 / class I
Nominal voltage (a.c.) (U_N)	400 V
Max. continuous operating voltage (a.c.) (U_C)	440 V
Lightning impulse current (10/350 µs) (I_{imp})	35 kA
Specific energy (W/R)	306.25 kJ/ohms
Nominal discharge current (8/20 µs) (I_n)	35 kA
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)	250 A gG
Max. backup fuse (L-L')	125 A gG
Temporary overvoltage (TOV) (U_T) – Characteristic	760 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, L', N/PEN) (min.)	10 mm^2 solid / flexible
Cross-sectional area (L, N/PEN) (max.)	50 mm^2 stranded / 35 mm^2 flexible
Cross-sectional area (L') (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	UL, CSA
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)	250 A gG
Weight	520 g
Customs tariff number (Comb. Nomenclature EU)	85363090
GTIN	4013364116276
PU	1 pc(s)