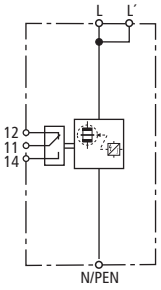
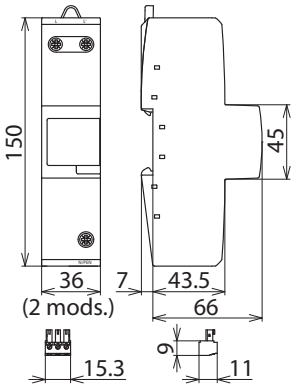
DBM 1 440 SN1885 FM (961 148)

- Single-pole type-1 interference arrester with high lightning impulse current discharge capacity for rail applications
- For the control of permanent and short-time interference voltages as per DB guideline Ril 819.0804
- Leakage-current-free type due to galvanic isolation





Basic circuit diagram



Dimension drawing

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

Type	DBM 1 440 SN1885 FM
Part No.	**961 148**
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 (AC) (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_{eff} (t_a ≤ 5 s)	250 A gG
Max. backup fuse (L-L')	125 A gG
Temporary overvoltage (U_T) – characteristic	760 V / 120 min. – withstand
Operating temperature range (parallel connection) (T_{UP})	-40 °C ... +80 °C
Operating temperature range (through-wiring) (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 Standard DIN module, DIN 43880
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	
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
Non-responsive in combination with BCO ML2 MVG 230	Up to 1500 V AC
DBM 440 FM SN1885 in combination with BCO ML2 MVG 230	
Permanent interference voltage as per Ril 819.0804	250 V
Power frequency withstand voltage (as per DIN EN 62561-3) / short-time interference voltage as per Ril 819.0804	1500 V_{rms}
Galvanic isolation to earth	Yes / leakage-current-free

DBM 440 FM SN1885 in combination with BCO ML2 MVG 230	
Insulation resistance	> 1 GOhm @ 1,000 V DC
Protection level (@ I_n = 3 kA) (U_p)	3.25 kV

Masterdata	
Net weight	519 g/pc(s)
GTIN	4013364475953
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.

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: Tested • NEU: New • : Discontinued Model
: Cross connector • : Longitudinal connector • : Parallel connector • : T connector • : Clamp for parallel connector • : Clamp for T connector
: Pipe clamp for parallel connector • : Pipe clamp for T connector • : Equipotential bonding bar • : Bridging component