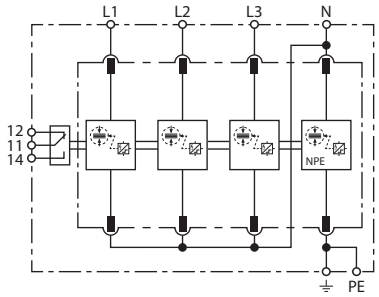
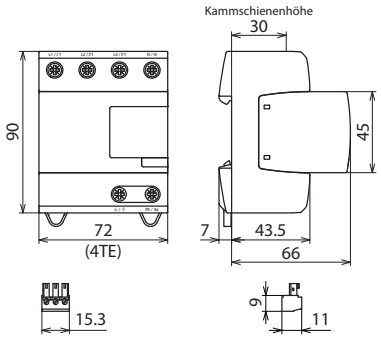
DV M2 TT 255 FM (956 315)

- Prewired spark-gap-based type 1, type 2 and type 3 combined arrester consisting of a base part and plug-in protection modules
- Compact unit meets maximum safety requirements thanks to Rapid Arc Control (RAC)
- Capable of protecting terminal equipment





Basic circuit diagram



Dimension drawing

Modular combined lightning current and surge arrester for TT and TN-S systems (3+1 configuration).

Type	**DV M2 TT 255 FM**
Part No.	**956 315**
SPD according to EN 61643-11 / IEC 61643-11	type 1 + type 2 + type 3 / class I + class II + class III
Energy coordination with terminal equipment (≤ 10 m)	Type 1 + Type 2 + Type 3
Nominal voltage (a.c.) (U_N)	230 / 400 V (50 / 60 Hz)
Max. continuous operating voltage (a.c.) [L-N] (U_C)	255 V (50 / 60 Hz)
Max. continuous operating voltage (a.c.) [N-PE] ($U_{C\,(N-PE)}$)	255 V (50 / 60 Hz)
Lightning impulse current (10/350 µs) [L1+L2+L3+N-PE] (I_{total})	100 kA
Specific energy [L1+L2+L3+N-PE] (W/R)	2.50 MJ/ohms
Lightning impulse current (10/350) [L-N]/[N-PE] (I_{imp})	25 / 100 kA
Specific energy [L-N]/[N-PE] (W/R)	156.25 kJ/ohms / 2.50 MJ/ohms
Nominal discharge current (8/20 µs) [L-N]/[N-PE] (I_n)	25 / 100 kA
Voltage protection level [L-N]/[N-PE] (U_P)	≤ 1.5 / ≤ 1.5 kV
Open-circuit voltage of the combination wave generator (U_{OC})	6 kV
Follow current extinguishing capability [L-N]/[N-PE] (I_{fi})	50 kA_{rms} / 100 A_{rms}
Follow current limitation / Selectivity	No tripping of a 35 A gG fuse up to 50 kA_{rms} (prosp.)
Short-circuit current rating [L-N]/[N-PE] (I_{SCCR})	50 kA_{rms} / 100 A_{rms}
Response time (t_A)	≤ 100 ns
Max. backup fuse	250 A gG
Temporary overvoltage (TOV) [L-N] (U_T) – Characteristic	440 V / 120 min. – withstand
Temporary overvoltage (TOV) [N-PE] (U_T) - Characteristic	1200 V / 200 ms – withstand
Let-through energy in combination with an MOV S20K275 (Iimp = 2.5 ... 25 kA)	< 1 J
Operating temperature range [parallel]/[series] (T_U)	-40 °C ... +80 °C / -40 °C ... +60 °C
Operating state / fault indication	green / red
Number of ports	1
Cross-sectional area (L1, L2, L3, N, PE,) (min.)	6 mm^2 solid / fine-stranded
Cross-sectional area (L1, L2, L3, N, PE,) (max.)	35 mm^2 stranded / 25 mm^2 fine-stranded
For mounting on	35 mm DIN rails acc. to EN 60715
Place of installation / Degree of protection	indoors / IP 20
Capacity	4 Standard DIN module, DIN 43880
Approvals	VDE, KEMA, UL
Type of remote signalling contact	yes / 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. prospective short-circuit current	100 kA_{rms} (220 kA_{peak})
Limitation / Extinction of mains follow currents	up to 100 kA_{rms} (220 kA_{peak})
Supplementary data	
Voltage protection level [L-PE] (U_P)	1.8 kV

Arrester use at 16.7 Hz – traction power supply systems	
Test voltage AC (U_C)	266 V
Nominal AC voltage (U_N)	230 / 400 V
Nominal frequency AC (f_N)	16.7 Hz
Max. backup fuse	160 A gG @ 16,7 Hz

Masterdata	
Net weight	548 g/pc(s)
Customs tariff number (Comb. Nomenclature EU)	85363090
GTIN	4013364528963
PU	1 pc(s)

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.

[1)] See installation instructions for definition of S_2