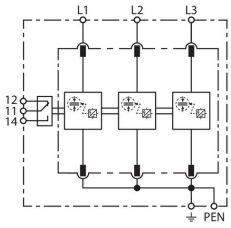
DV M2 TNC 255 FM (956 305)

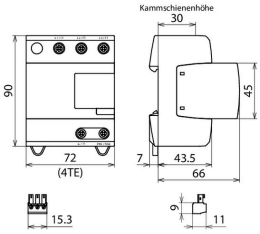
- Prewired type 1, type 2 and type 3 spark-gap-based combined arrester consisting of a base part and plug-in protection modules
- Compact unit meets maximum safety requirements thanks to Rapid Arc Control (RAC)
- Capable of protecting terminal equipment



Figure without obligation



Basic circuit diagram DV M2 TNC 255 FM



Dimension drawing DV M2 TNC 255 FM

Modular combined lightning current and surge arrester for TN-C systems.

Type Part No.	DV M2 TNC 255 FM 956 305
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.) (U_C)	255 V (50 / 60 Hz)
Lightning impulse current (10/350 µs) [L1+L2+L3-PEN] (I_{total})	75 kA
Lightning impulse current (10/350 µs) [L-PEN] (I_{imp})	25 kA
Specific energy [L-PEN] (W/R)	156.25 kJ/ohms
Nominal discharge current (8/20 µs) [L-PEN] (I_n)	25 kA
Voltage protection level (U_P)	≤ 1.5 kV
Open-circuit voltage of the combination wave generator (U_{OC})	6 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.)
Short-circuit current rating [L-N]/[N-PE] (I_{SCCR})	50 kA_{rms}
Response time (t_A)	≤ 100 ns
Max. backup fuse (L) up to I_K = 50 kA_{rms}	250 A gG
Temporary overvoltage (TOV) (U_T) – Characteristic	440 V / 120 min. – withstand
Let-through energy with an S20K275 (I_{imp} = 2.5 to 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, PEN, ⏚) (min.)	6 mm^2 solid / fine-stranded
Cross-sectional area (L1, L2, L3, PEN, ⏚) (max.)	35 mm^2 stranded / 25 mm^2 fine-stranded
For mounting on	35 mm DIN rails acc. to EN 60715
Place of installation	indoor installation
Degree of protection	IP 20
Capacity	4 module(s), DIN 43880
Approvals	VDE, KEMA
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 / fine-stranded
For 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}	250 A gG

Use for 16.7 Hz traction power supply systems

Type Part No.	DV M2 TNC 255 FM 956 305
– Test voltage AC (U_C)	266 V
– Nominal voltage (a.c.) (U_N)	230 / 400 V
– Nominal frequency (a.c.) (f_N)	16.7 Hz
– Max. backup fuse	160 A gG @ 16,7 Hz
Weight	459 g
Customs tariff number (Comb. Nomenclature EU)	85363090
GTIN	4013364510586
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.