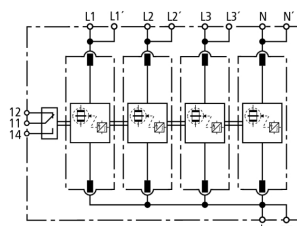


DV M TNS 255 FM (951 405)

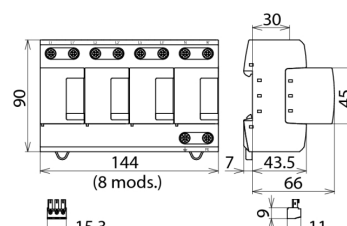
- Prewired spark-gap-based combined lightning current and surge arrester consisting of a base part and plug-in protection modules
- Maximum system availability due to RADAX Flow follow current limitation
- Capable of protecting terminal equipment



Figure without obligation



Basic circuit diagram DV M TNS 255 FM



Dimension drawing DV M TNS 255 FM

Modular combined lightning current and surge arrester for TN-S systems

Type	DV M TNS 255 FM
Part No.	951 405
SPD according to EN 61643-11 / IEC 61643-1/-11	Type 1 / Class I
Energy coordination with terminal equipment	Type 1 + Type 2
Energy coordination with terminal equipment ($\leq 5\text{m}$)	Type 1 + Type 2 + Type 3
Nominal a.c. voltage (U_N)	230 / 400 V
Max. continuous operating a.c. voltage (U_C)	255 V
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 μs) [L, N-PE] (I_{imp})	25 kA
Specific energy [L,N-PE] (W/R)	156.25 kJ/ohms
Nominal discharge current (8/20 μs) (I_n)	25 / 100 kA
Voltage protection level [L-PE]/[N-PE] (U_p)	$\leq 1.5\text{ kV} / \leq 1.5\text{ kV}$
Follow current extinguishing capability a.c. (I_{fi})	50 kA _{rms}
Response time (t_A)	$\leq 100\text{ ns}$
Follow current limitation/Selectivity	no tripping of a 20 A gL/gG fuse up to 50 kA _{rms} (prosp.)
Max. backup fuse (L) up to $I_K = 50\text{ kA}_{\text{rms}}$	315 A gL/gG
Max. backup fuse (L-L')	125 A gL/gG
Temporary overvoltage (TOV) [L-N] (U_T)	440 V / 5 sec.
TOV characteristic	withstand
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, L1', L2, L2', L3, L3', N, N', PE, $\neq$) (min.)	10 mm ² solid/flexible
Cross-sectional area (L1, L2, L3, N, PE) (max.)	50 mm ² stranded/35 mm ² flexible
Cross-sectional area (L1', L2', L3', N', $\neq$) (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	8 module(s), DIN 43880
Approvals	KEMA, VDE, UL, VdS
Type of remote signalling contact	changeover contact
a.c. switching capacity	250 V/0.5 A
d.c. switching capacity	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:	
– Maximum 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 $I_K = 100\text{ kA}_{\text{rms}}$	315 A gL/gG
Weight	1,36 kg
Customs tariff number	85363030
GTIN	4013364108165
PU	1 pc(s)

Use in switchgear installations with prospective short-circuit currents of more than 50 kA_{rms} (tested by the German VDE)

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.