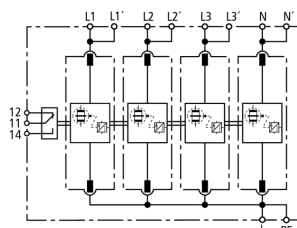


## DV M TNS 255 FM (951 405)

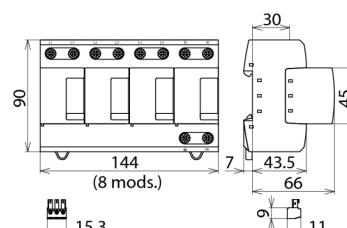
Prewired spark-gap-based combined lightning current and surge arrester consisting of a base part and plug-in protection modules  
Maximum system availability due to RADAX Flow follow current limitation  
Capable of protecting terminal equipment



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	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 $\mu\text{s}$ ) [ $L1+L2+L3+N-PE$ ] ( $I_{\text{total}}$ )	100 kA
Specific energy [ $L1+L2+L3+N-PE$ ] (W/R)	2.50 MJ/ohms
Lightning impulse current (10/350 $\mu\text{s}$ ) [ $L, N-PE$ ] ( $I_{\text{imp}}$ )	25 kA
Specific energy [ $L, N-PE$ ] (W/R)	156.25 kJ/ohms
Nominal discharge current (8/20 $\mu\text{s}$ ) ( $I_n$ )	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. ( $I_{\text{fi}}$ )	50 kA <sub>rms</sub>
Follow current limitation/Selectivity	no tripping of a 20 A gL/gG fuse up to 50 kA <sub>rms</sub> (prosp.)
Response time ( $t_A$ )	$\leq 100 \text{ ns}$
Max. backup fuse (L) up to $I_K = 50 \text{ kA}_{\text{rms}}$	315 A gL/gG
Max. backup fuse (L) for $I_K > 50 \text{ kA}_{\text{rms}}$	200 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 ( $L1, L1', L2, L2', L3, L3', N, N', PE, GND$ ) (min.)	10 mm <sup>2</sup> solid/flexible
Cross-sectional area ( $L1, L2, L3, N, PE$ ) (max.)	50 mm <sup>2</sup> stranded/35 mm <sup>2</sup> flexible
Cross-sectional area ( $L1', L2', L3', N', \varnothing$ ) (max.)	35 mm <sup>2</sup> stranded/25 mm <sup>2</sup> flexible
For mounting on	35 mm DIN rails acc. to EN 60715
Enclosure material	thermoplastic, red, UL 94 V-0
Place of installation	indoor
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 <sup>2</sup> solid/flexible
Weight	1,36 kg
Customs tariff number	85363030
GTIN	4013364108165
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.