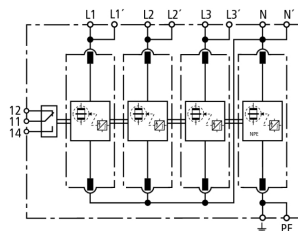


## DV M TT 255 FM (951 315)

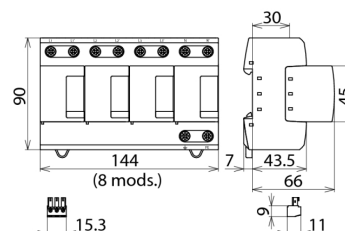
- Prewired spark-gap-based combined lightning current and surge arrester consisting of a base part and plug-in protection modules
- Maximum system availability due to RADAX Flow follow current limitation
- Capable of protecting terminal equipmen



Figure without obligation



Basic circuit diagram DV M TT 255 FM



Dimension drawing DV M TT 255 FM

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

Type	DV M TT 255 FM
Part No.	951 315
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 $\mu\text{s}$ ) [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]/[N-PE] ( $I_{\text{imp}}$ )	25 / 100 kA
Specific energy [L-N]/[N-PE] (W/R)	156.25 kJ/ohms / 2.50 MJ/ohms
Nominal discharge current (8/20 $\mu\text{s}$ ) ( $I_n$ )	25 / 100 kA
Voltage protection level [L-N]/[N-PE] ( $U_p$ )	$\leq 1.5 \text{ kV} / \leq 1.5 \text{ kV}$
Response time ( $t_A$ )	$\leq 100 \text{ ns}$
Follow current extinguishing capability [L-N]/[N-PE] ( $I_n$ )	50 $\text{kA}_{\text{rms}} / 100 \text{ A}_{\text{rms}}$
Follow current limitation/Selectivity	no tripping of a 20 A gL/gG fuse up to 50 $\text{kA}_{\text{rms}}$ (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.
Temporary overvoltage (TOV) [N-PE] ( $U_T$ )	1200 V / 200 ms
TOV characteristic	withstand
Operating temperature range [parallel]/[series] ( $T_U$ )	$-40^\circ\text{C} \dots +80^\circ\text{C} / -40^\circ\text{C} \dots +60^\circ\text{C}$
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 $\text{mm}^2$ solid/flexible
Cross-sectional area (L1, L2, L3, N, PE) (max.)	50 $\text{mm}^2$ stranded/35 $\text{mm}^2$ flexible
Cross-sectional area (L1', L2', L3', N', $\neq$ ) (max.)	35 $\text{mm}^2$ stranded/25 $\text{mm}^2$ 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 $\text{mm}^2$ solid/flexible
<b>Extended technical data:</b>	<b>Use in installations with prospective short-circuit currents of more than 50 <math>\text{kA}_{\text{rms}}</math> (tested by VDE)</b>
– Maximum prospective short-circuit current	100 $\text{kA}_{\text{rms}}$ (220 $\text{kA}_{\text{peak}}$ )
– Limitation/extinction of mains follow currents	up to 100 $\text{kA}_{\text{rms}}$ (220 $\text{kA}_{\text{peak}}$ )
– Max. backup fuse (L) up to $I_k = 100 \text{ kA}_{\text{rms}}$	315 A gL/gG
Weight	1,28 kg
Customs tariff number	85363030
GTIN	4013364108189
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.