

Product Datasheet: DEHNventil® modular

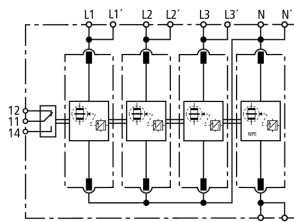


DV M TT 255 (951 310)

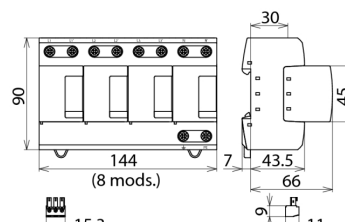
Prewired spark-gap-based combined lightning current and surge arrester consisting of a base part and plug-in protection modules
Maximum system availability due to RADAX Flow follow current limitation
Capable of protecting terminal equipment



Figure without obligation



Basic circuit diagram DV M 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
Part No.	951 310
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 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]/[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) (I_n)	25 / 100 kA
Voltage protection level [L-N]/[N-PE] (U_p)	$\leq 1.5\text{ kV} / \leq 1.5\text{ kV}$
Follow current extinguishing capability [L-N]/[N-PE] (I_f)	50 kA _{rms} / 100 A _{rms}
Follow current limitation/Selectivity	no tripping of a 20 A gL/gG fuse up to 50 kA _{rms} (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.
Temporary overvoltage (TOV) [N-PE] (U_T)	1200 V / 200 ms
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 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', $\pm$) (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
Degree of protection	IP 20
Capacity	8 module(s), DIN 43880
Approvals	KEMA, VDE, UL, VdS
PU	1 pc(s)
Weight	1,270 kg
Customs tariff number	85363030
GTIN	4013364108172

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.