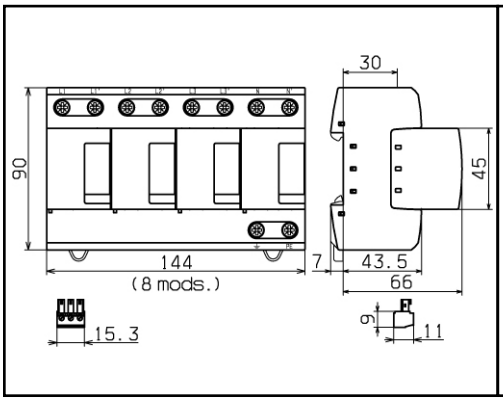
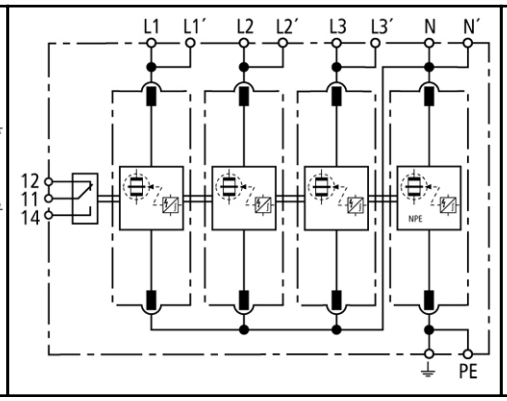
DEHNventil® modular
DV M TT 255

DEHN + SÖHNE



Dimension drawing DV M TT 255 (FM)



Basic circuit diagram DV M TT 255 FM

DV M TT 255 (FM): Modular combined lightning current and surge arrester for protecting TT and TN-S systems ("3+1" circuit) against surges

Prewired combined spark-gap-based 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

No tripping of 20 A gL/gG fuses up to 50 kA_{rms} short-circuit currents

Lightning current discharge capacity: 100 kA (10/350 µs)

Protection of terminal equipment

Fault indication by red indicator flag in window

Easy replacement of protection modules due to module locking system with release button

Vibration- and shock-tested acc. to EN 60068-2

	DV M TT 255
SPD according to EN 61643-11 / ... IEC 61643-1	Type 1 / Class I
Energy-coordinated protection effect with regard to the terminal equipment	Type 1 + Type 2
Energy-coordinated protection effect with regard to the terminal equipment (≤ 5m)	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]	≤ 1.5 kV / ≤ 1.5 kV
Follow current extinguishing capability [L-N]/[N-PE] [I_{fi}]	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]	≤ 100 ns
Max. backup fuse (L) up to I_K = 50 kA_{rms}	315 A gL/gG
Max. backup fuse (L) for I_K > 50 kA_{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 characteristics	withstand
Operating temperature range [parallel]/[continuity] [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, ⏚) [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´, ⏚) [max.]	35 mm^2 stranded/25 mm^2 flexible
For mounting on	35 mm DIN rail acc. to EN 60715

Enclosure material	thermoplastic, red, UL 94 V-0
Location category	indoor
Degree of protection	IP 20
Capacity	8 mods., DIN 4
Approvals, Certifications	KEMA, VDE, UL, VdS

Ordering information	
Type	DV M TT 255
Part No.	**951 310**
Packing unit	1 pc