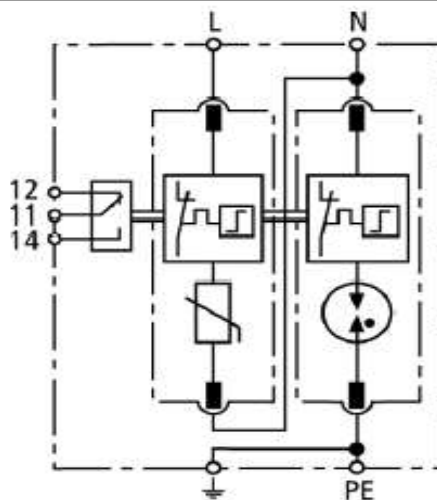


Dimension drawing DG M TT 2P ... FM



Basic circuit diagram DG M TT 2P ... FM



DG M TT 2P ... (FM): Modular surge arrester for single-phase 230 V TT and TN systems ("1+1" circuit)

- Complete prewired unit for single-phase 230 V TT and TN systems, consisting of a base part and plug-in protection modules
- Energy-coordinated within the Red/Line product family
- High discharge capacity due to powerful zinc oxide varistors/spark gaps
- Reliable SPD control due to "Thermo Dynamic Control"
- Operating state/fault indication of every protective circuit
- Multifunctional terminals for connection of conductors and busbars
- Easy exchange of protection modules without tools by module locking system with releasing button
- Tested for vibration- and shock-proofness acc. to EN 60068-2

DG M TT 2P 275 FM

SPD according to EN 61643-11	Type 2
SPD according to IEC 61643-1	Class II
Nominal ac voltage [U _N]	230 V
Max. continuous ac voltage [L-N] [U _C]	275 V
Max. continuous ac voltage [N-PE] [U _C]	255 V
Nominal discharge current (8/20 μs) [I _N]	20 kA
Max. discharge current (8/20 μs) [I _{max}]	40 kA
Lightning impulse current (10/350 μs) [N-PE] [I _{imp}]	12 kA
Voltage protection level [L-N] [U _{pj}]	≤ 1.25 kV
Voltage protection level [L-N] at 5 kA [U _{pj}]	≤ 1 kV
Voltage protection level [N-PE] [U _{pj}]	≤ 1.5 kV
Follow current extinguishing capability [N-PE] [I _{ff}]	100 A _{RMS}
Response time [L-N] [t _A]	≤ 25 ns
Response time [N-PE] [t _A]	≤ 100 ns
Max. mains-side overcurrent protection	125 A gL/gG
Short circuit withstand capability at max. mains-side overcurrent protection	50 kA _{RMS}
TOV voltage [L-N] [U _{Tj}]	335 V / 5 sec.
TOV voltage [N-PE] [U _{Tj}]	1200 V / 200 ms
Operating temperature range [T _{Uj}]	-40°C...+80°C
Cross-sectional area (min.)	1.5 mm ² solid/flexible
Cross-sectional area (max.)	35 mm ² stranded/25 mm ² flexible
Mounting on	35 mm DIN rail acc. to EN 60715



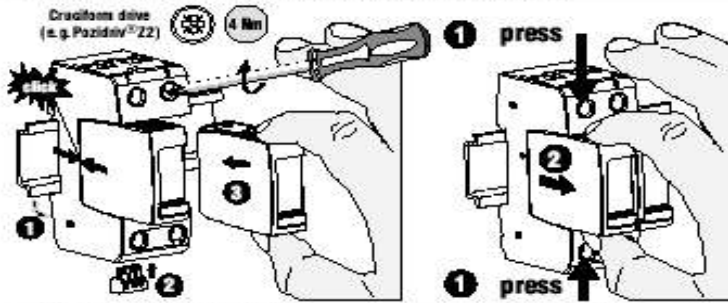
INSTALLATION INSTRUCTIONS

Publication No. 1548 UPDATE 11.06 Id. No. 050465



DEHNguard[®] modular DG M TN 275 (FM), DG M TT 2P 275 (FM)

Technical data / Technische Daten



Class II	IEC 61008-1: ...
Type 2	EN 61008-11: ...

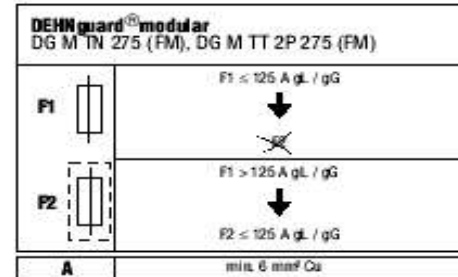
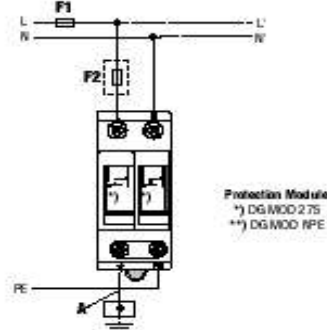
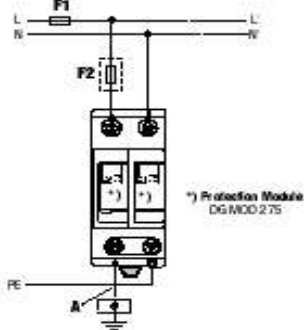
Typ	DG M TN 275 (FM)		DG M TT 2P 275 (FM)	
	L - N	N - PE	L - N	N - PE
Protection Module	DG MOD 275		Protection Module DG MOD RPE	
U_n	230 V / 400 V		230 V	
U_c	275 V- / 390 V		265 V-	
I_n	---		100 A _{rated}	
max.	125 A gL/gG		---	
°C	-40°C ... +80°C		---	
IP Code	20		---	

min. \square L, N, PE(N), \downarrow	1.5 mm ²
max. \square L, N, PE(N), \downarrow	25 mm ² / 35 mm
	16 mm ² Cu

TN (-C)-S DG M TN 275 (FM)

TT DG M TT 2P 275 (FM)

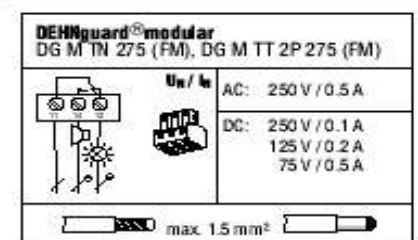
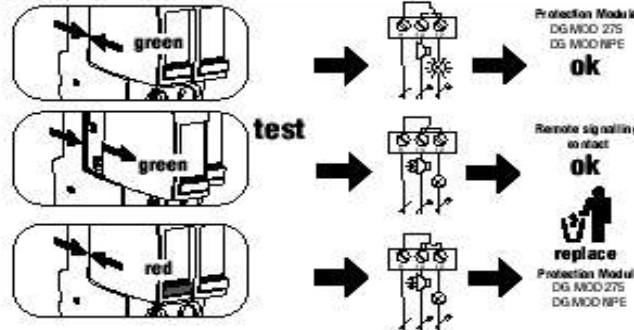
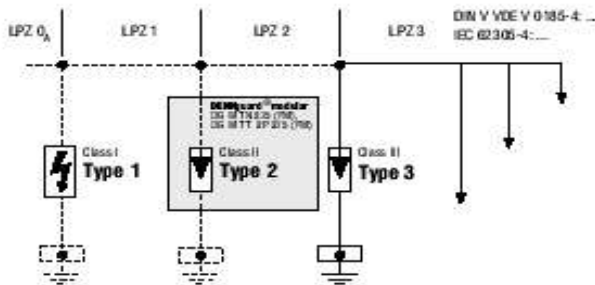
Backup fuse / Versicherung



Coordination / Koordination

Fault indication / Defektanzeige

Remote signalling contact / Fernmeldekontakt



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