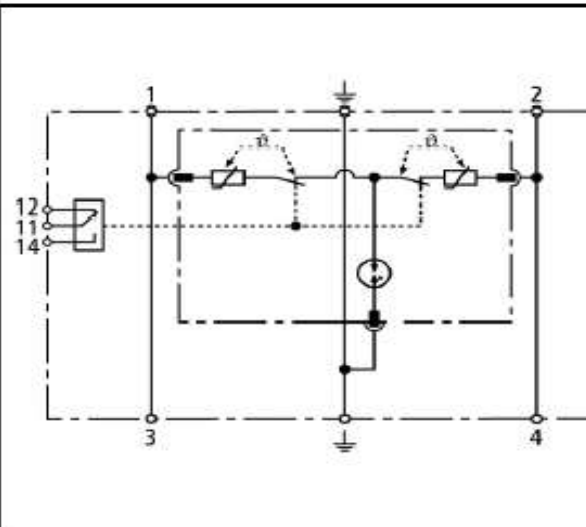


Dimension drawing DR M 2P ... FM



Basic circuit diagram DR M 2P ... FM



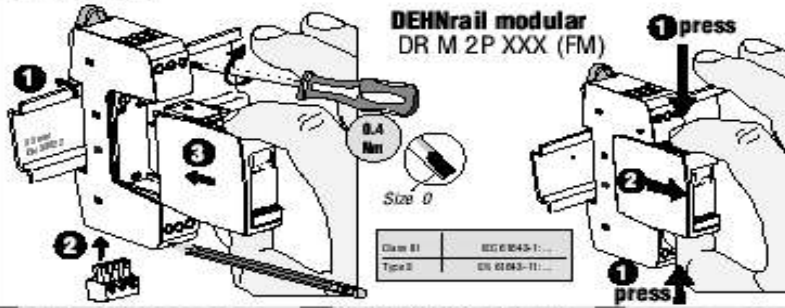
DR M 2P ... FM: Two-pole surge arrester consisting of a base element and plug-in protection module; with floating remote signalling contact

- Two-pole surge arrester consisting of a base element and plug-in protection module
- High discharge capacity due to powerful zinc oxide varistor/spark gap combination
- Energy-coordinated within the Red/Line product family
- Operating state/fault indication by mark in the inspection window
- With floating remote signalling contact
- Small (modular) design acc. to DIN 43880
- 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

DR M 2P 255 FM	
SPD according to EN 61643-11	Type 3
SPD according to IEC 61643-1	Class III
Nominal ac voltage [U _N]	230 V
Max. continuous ac voltage [U _C]	255 V
Max. continuous dc voltage [U _C]	255 V
Nominal load current ac [I _L]	25 A
Nominal discharge current (8/20 μs) [L-N] [I _n]	3 kA
Nominal discharge current (8/20 μs) [L+N-PE] [I _n]	5 kA
Combined impulse [L-N] [U _{OC}]	6 kV
Combined impulse [L+N-PE] [U _{OC}]	10 kV
Voltage protection level [L-N] [U _P]	≤ 1250 V
Voltage protection level [L/N-PE] [U _P]	≤ 1500 V
Response time [L-N] [t _A]	≤ 25 ns
Response time [L/N-PE] [t _A]	≤ 100 ns
Max. mains-side overcurrent protection	25 A gL/gG or B 25 A
Short circuit withstand capability at mains-side overcurrent protection with 25 A gL/gG	6 kA _{rms}
TOV voltage [L-N] [U _T]	335 V / 5 sec.
TOV voltage [L/N-PE] (I) [U _T]	400 V / 5 sec.
TOV voltage [L+N-PE] (II) [U _T]	1200 V + U ₀ / 20
Operating temperature range [T _U]	-40°C...+80°C
Cross-sectional area (min.)	0.5 mm ² solid/flexible
Cross-sectional area (max.)	4 mm ² solid/2.5 mm ² flexible
Mounting on	35 mm DIN rail acc. to EN 60715
Enclosure material	red thermoplastic, UL 94 V-0



Technical Data



Technical data / Technische Daten

Application: for control circuits only / Anwendung: nur für Steuerkreise

Typ	30	60	75	150	255
U _c	30 V	60 V	75 V	150 V	255 V
	max. 25 A (max. 0.25 A)				
θ° C	-40°C ... + 80°C				
IP-Code	20				

min. □ 1,2,3,4 ↓	0.5 mm ²
max. □ 1,2,3,4 ↓	2.5 mm ² / 4 mm ²

Basic circuit diagram / Prinzipschaltbild

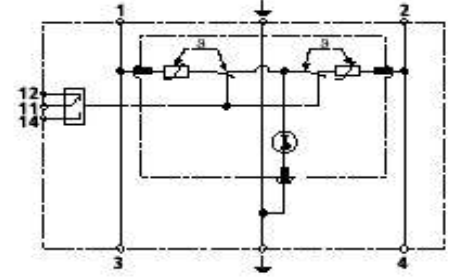


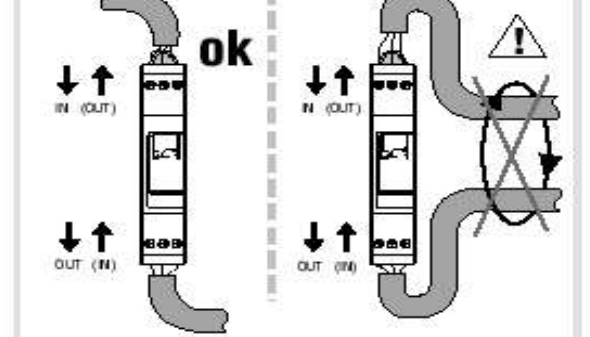
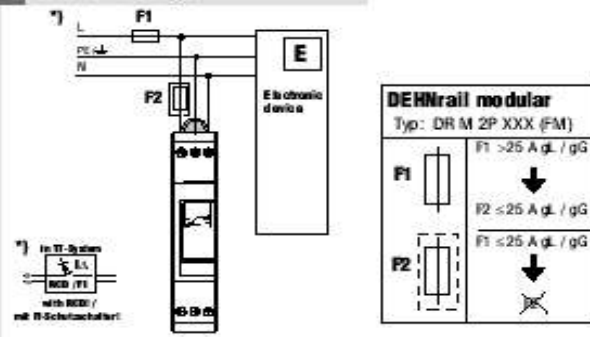
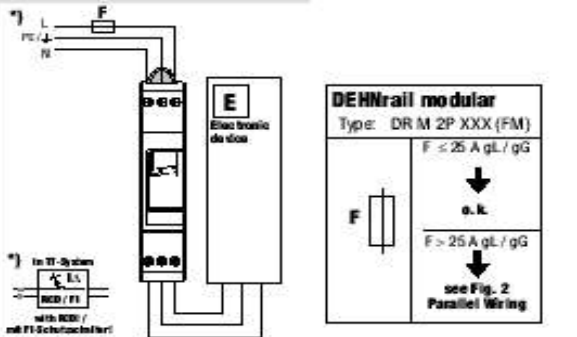
Fig. 1 Serial connection / Durchgangsverdrahtung

Backup fuse / Versicherung

Fig. 2 Parallel connection / Stüchverdrahtung

Backup fuse / Versicherung

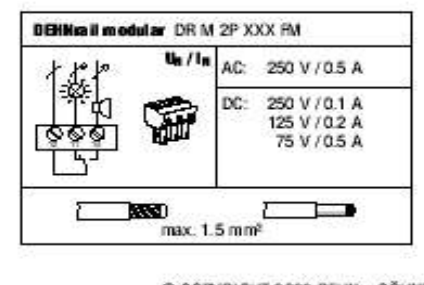
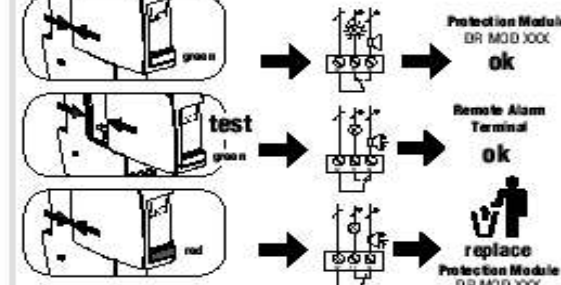
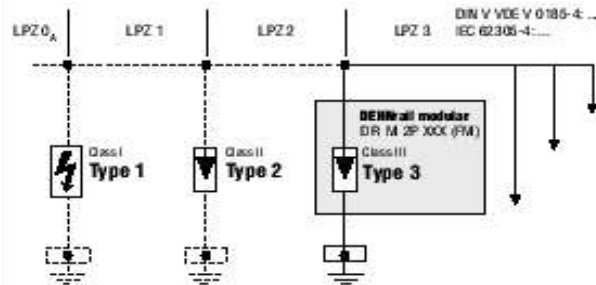
Cable routing / Kabelführung



Coordination / Koordination

Fault indication / Defektanzeige

Remote signalling contact / Fernmeldekontakt



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