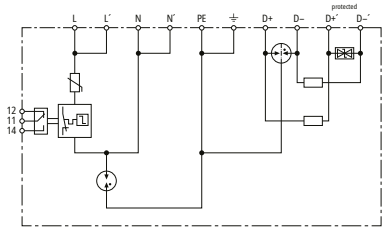
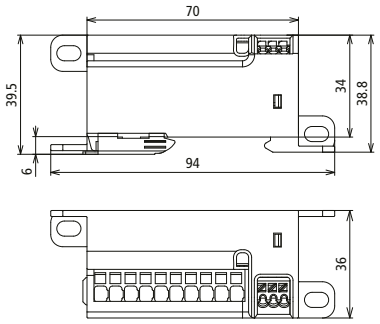
DCOR 1P 275 D FM (900 438)

- Extremely compact design
- Visual fault indication, with remote signalling contact
- Optionally mounted on DIN rails or using special screw lugs
- Double push-in technology – For series or parallel connection





Basic circuit diagram



Dimension drawing

Single-phase, compact arrester for TT and TN-S systems with integrated protective circuit for communication interface.

NEW

Type	DCOR 1P 275 D FM
Part No.	**900 438**
Extended technical data	
Max. mains-side overcurrent protection (series connection)	25 A gG
Max. mains-side overcurrent protection (parallel connection)	40 A gG
Insulation measurement	up to 500 V DC when connected
Operating state / fault indication	green / red
Cross-sectional area for push-in terminals	0.2 … 6 mm² solid / flexible
Dimensions	2 modules, DIN 43880
Type of remote signalling contact	changeover contact
Switching capacity (a.c.)	250 V / 0.5 A
Switching capacity (d.c.)	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 mm² solid / flexible
Technical data	
SPD according to EN 61643-11 / IEC 61643-11	type 2 + type 3 / class II + class III
Nominal voltage (a.c.) (U_N)	230 V (50 / 60 Hz)
Max. continuous operating voltage (a.c.) [L-N] (U_C)	275 V (50 / 60 Hz)
Max. continuous operating voltage (a.c.) [N-PE] (U_C)	255 V (50 / 60 Hz)
Max. continuous operating voltage DC (U_C)	350 V
Nominal load current (a.c.) / (d.c.) (I_L)	25 A
Nominal discharge current (8/20 µs) [L-N] (I_n)	10 kA
Max. discharge current (8/20 µs) [L-N] (I_{max})	20 kA
Nominal discharge current (8/20 µs) [N-PE] (I_n)	10 kA
Max. discharge current (8/20 µs) [N-PE] (I_{max})	40 kA
Total discharge current (8/20 µs) [L+N-PE] (I_{total})	20 kA
Combination wave [L-N]/[N-PE] (U_{OC})	20 kV
Voltage protection level [L-N] (U_p)	≤ 1.5 kV
Voltage protection level [N-PE] (U_p)	≤ 1.5 kV
Follow current extinguishing capability [N-PE] (I_{Fi})	100 A_{eff}
Response time [L-N] (t_A)	25 ns
Response time [L/N-PE] (t_A)	100 ns
Short-circuit withstand capability for mains-side overcurrent protection (I_{SCCR})	6 kA_{rms}
Temporary overvoltage (TOV) [L-N] (U_T) – Characteristic	335 V / 5 sec. – withstand 440 V / 120 min. – safe failure
Temporary overvoltage (TOV) [N-PE] (U_T) - Characteristic	1200 V / 200 ms. – withstand
Number of ports	1
Operating temperature range (T_U)	-40 °C … +80 °C
Enclosure material	thermoplastic, red, UL 94 V-2

Technical data	
Place of installation	indoor installation
Degree of protection of installed device	IP 20
Approvals	KEMA
Signal-side technical data	
SPD class	TYPE 2 P2
Impulse category	C1, C2, C3
Nominal voltage (d.c.) (U_N)	24 V
Max. continuous operating voltage DC (U_C)	28 V
Nominal current at 45 °C (I_L)	0.3 A
C2 Total nominal discharge current (8/20 µs) (I_n)	10 kA
C2 Nominal discharge current (8/20 µs) per line (I_n)	5 kA
Voltage protection level line-line for I_n C2 (U_p)	≤ 50 V
Voltage protection level line-PG for I_n C2 (U_p)	≤ 710 V
Voltage protection level line-line for I_n C1 (U_p)	≤ 48 V
Voltage protection level line-PG for I_n C1 (U_p)	≤ 550 V
Voltage protection level line-line at 1 kV/µs C3 (U_p)	≤ 40 V
Voltage protection level line-PG at 1 kV/µs C3 (U_p)	≤ 550 V
Series resistance per line	1.8 Ohm
Cut-off frequency line-line (100 ohms) (f_G)	10 MHz
Capacitance line-line (C)	≤ 0.64 nF
Capacitance line-PG (C)	≤ 7.7 pF
Operating temperature range (T_U)	-40°C to +80°C
Degree of protection	IP 20
Connection D+, D-/D+', D-'	Push-in / Push-in
Cross-sectional area, solid	0.2–6 mm²
Cross-sectional area, flexible	0.2–6 mm²
Earthing via	PE terminal
Test standards	IEC 61643-21 / EN 61643-21

Masterdata	
Net weight	86.27 g/pc(s)
GTIN	4013364526891
PU	1 pc(s)
Customs tariff number (Comb. Nomenclature EU)	85363030

We reserve the right to make changes to the design and technology, dimensions, weights and materials in the interests of technical progress. The illustrations are not binding.