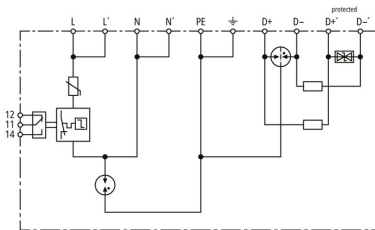


DCOR 1P 275 D FM (900 438)

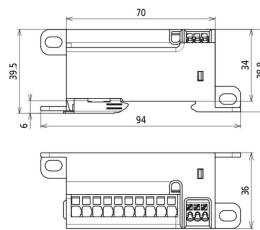
- Extremely compact design
- Visual fault indication, with remote signalling contact
- Optionally mounted on DIN rails or using special screw lugs
- Double push-in technology – For series or parallel connection



Figure without obligation



Basic circuit diagram DCOR 1P 275 D FM



Dimension drawing DCOR 1P 275 D FM

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

Technical data

Type	DCOR 1P 275 D FM
Part No.	900 438 NEW
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 (d.c.) (U_C)	350 V
Nominal load current (a.c.) / (d.c.) (I_L)	25 A
Nominal discharge current (8/20 μ s) [L-N] (I_n)	10 kA
Max. discharge current (8/20 μ s) [L-N] (I_{max})	20 kA
Nominal discharge current (8/20 μ s) [N-PE] (I_n)	10 kA
Max. discharge current (8/20 μ s) [N-PE] (I_{max})	40 kA
Total discharge current (8/20 μ s) [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_{ef})	100 A _{rms}
Response time [L-N] (t_A)	25 ns
Response time [L/N-PE] (t_A)	100 ns
Max. mains-side overcurrent protection (series connection)	25 A gG
Max. mains-side overcurrent protection (parallel connection)	40 A gG
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
Temporary overvoltage (TOV) [L-N] (U_T) – Characteristic	440 V / 120 min. – safe failure
Temporary overvoltage (TOV) [N-PE] (U_T) – Characteristic	1200 V / 200 ms. – withstand
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 mm ² solid / flexible
Number of ports	1
Operating temperature range (T_U)	-40 °C ... +80 °C
Enclosure material	thermoplastic, red, UL 94 V-2
Place of installation	indoor installation
Degree of protection of installed device	IP 20
Dimensions	2 modules, DIN 43880
Approvals	KEMA
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 mm ² solid / flexible

Signal-side technical data

Type	DCOR 1P 275 D FM
Part No.	900 438 NEW
SPD class	TYPE 2 P2
Impulse category	C1, C2, C3
Nominal voltage DC (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 μ s) (I_n)	10 kA
C2 nominal discharge current (8/20 μ s) 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/ μ s C3 (U_P)	≤ 40 V
Voltage protection level line-PG at 1 kV/ μ s C3 (U_P)	≤ 550 V
Series impedance per line	1.8 ohms
Cut-off frequency line-line (100 ohms) (f_C)	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 mm ²
Cross-sectional area, fine-stranded	0.2–6 mm ²
Earthing via	PE terminal
Test standards	IEC 61643-21 / EN 61643-21
Weight	86 g
Customs tariff number (Comb. Nomenclature EU)	85363030
GTIN	4013364526891
PU	1 pc(s)

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.