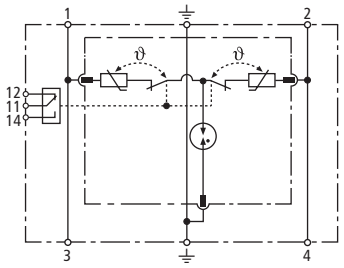
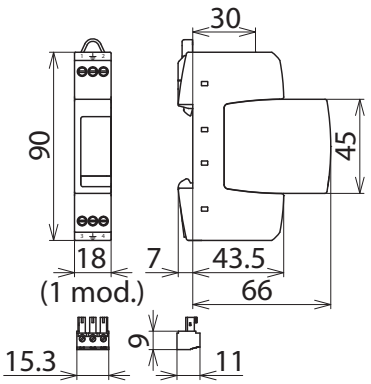
DR M 2P 255 FM (953205)

- Two-pole surge arrester consisting of a base part and a plug-in protection module
- High discharge capacity due to heavy-duty zinc oxide varistor / spark gap combination
- Energy coordination with other arresters of the Red/Line product family





Basic circuit diagram



Dimension drawing

Two-pole surge arrester consisting of a base part and a plug-in protection module; with floating remote signalling contact.

Type	**DR M 2P 255 FM**
Part No.	**953205**
Standards	
Certification	UL
UL Standard	UL 1449 5th edition
UL File Number	E319777
Test values according to UL 1449	
Mode	L-L/L-G
Rated voltage (AC), 50/60 Hz) [L-L]/[L-G]	240/120 V
MCOV (AC, 50/60 Hz) [L-L]/[L-G]	255/127 V
Voltage protection rating (VPR)	1200 V
Nominal discharge current (8/20µs) (I_n)	3 kA
Rated Current	20 A
Maximum ambient temperature	+80 °C
AWG (conductors)	14-20 Cu stranded, 12-20 Cu solid
Torque (conductors)	3.5 Lbs-in
AWG (remote indicator)	14-22
Torque (remote indicator)	3 Lbs-in
UL 1449 edition	5th edition
Type (SPD classification)	Type 3 component assembly
Technical data	
SPD according to EN 61643-11 / IEC 61643-11	type 3 / class III
Nominal voltage (a.c.) (U_N)	230 V (50 / 60 Hz)
Max. continuous operating voltage (AC) (U_C)	255 V (50 / 60 Hz)
Max. continuous operating voltage DC (U_C)	255 V
Nominal load current (a.c.) (I_L)	25 A
Nominal discharge current (8/20 µs) (I_n)	3 kA
Total discharge current (8/20 µs) [L+N-PE] (I_{total})	5 kA
Combination wave (U_{OC})	6 kV
Combination wave [L+N-PE] ($U_{OC\ total}$)	10 kV
Voltage protection level [L-N] / [L/N-PE] (U_p)	≤ 1250 / ≤ 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 gG or B 25 A
Short-circuit withstand capability for mains-side overcurrent protection with 25 A gG (I_{SCCR})	6 kA_{rms}
Temporary overvoltage (TOV) [L-N] (U_T) – Characteristic	335 V / 5 sec. – Festigkeit 440 V / 120 min. – sicherer Ausfall
Temporary overvoltage (TOV) [L/N-PE] (U_T) – Characteristic	335 V / 120 min. – Festigkeit 440 V / 5 sec. – Festigkeit
Temporary overvoltage (TOV) [L+N-PE] (U_T) – Characteristic	1200 V + U_{REF} / 200 ms – safe failure

Technical data	
Operating temperature range (T_U)	-40 °C ... +80 °C
Operating state / fault indication	green / red
Number of ports	1
Cross-sectional area (min.)	0.5 mm² solid / flexible
Cross-sectional area (max.)	4 mm² solid / 2.5 mm² flexible
For mounting on	35 mm DIN rails acc. to EN 60715
Enclosure material	thermoplastic, red, UL 94 V-0
Place of installation	indoor installation
Degree of protection	IP 20
Capacity	1 Standard DIN module, DIN 43880
Approvals	KEMA, VDE, UL, CSA, ATEX, IECEx
ATEX approvals	TÜV 22 ATEX 8930 X: II 3 G Ex ec IIC T4 Gc
IECEx approvals	IECEx TUR 22.0080X: Ex ec IIC T4 Gc
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

Masterdata	
Net weight	84 g/pc(s)
Customs tariff number (Comb. Nomenclature EU)	85363030
GTIN	4013364108318
PU	1 pc(s)

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.

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: Tested • NEU: New • : Discontinued Model
: Cross connector • : Longitudinal connector • : Parallel connector • : T connector • : Clamp for parallel connector • : Clamp for T connector
: Pipe clamp for parallel connector • : Pipe clamp for T connector • : Equipotential bonding bar • : Bridging component