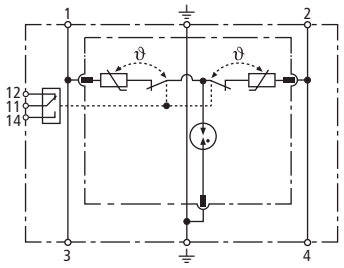
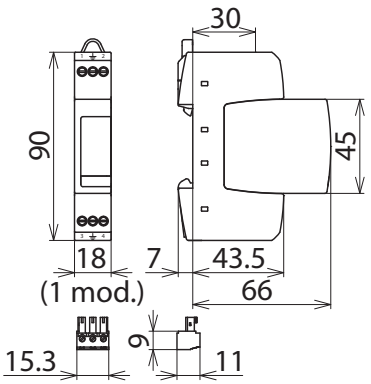
DR M 2P 30 FM (953 206)

- 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 30 FM
Part No.	**953 206**
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]	24/12 V
MCOV (AC, 50/60 Hz) [L-L]/[L-G]	30/15 V
MLV (AC) [L-L]/[L-G]	180/420 V
Rated Voltage (DC) [L-L]/[L-G]	24/12 V
MCOV (DC) [L-L]/[L-G]	35/17.5 V
MLV (DC) [L-L]/[L-G]	180/510 V
Nominal discharge current (8/20µs) (I_n)	1 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 4 component assembly
Technical data	
SPD according to EN 61643-11 / IEC 61643-11	type 3 / class III
Nominal voltage (a.c.) (U_N)	24 V (50 / 60 Hz)
Max. continuous operating voltage (AC) (U_C)	30 V (50 / 60 Hz)
Max. continuous operating voltage DC (U_C)	30 V
Nominal load current (a.c.) (I_L)	25 A
Nominal discharge current (8/20 µs) (I_n)	1 kA
Total discharge current (8/20 µs) [L+N-PE] (I_{total})	2 kA
Combination wave (U_{OC})	2 kV
Combination wave [L+N-PE] ($U_{OC\ total}$)	4 kV
Voltage protection level [L-N] / [L/N-PE] (U_p)	≤ 180 / ≤ 630 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}
Operating temperature range (T_U)	-40 °C ... +80 °C
Operating state / fault indication	green / red

Technical data	
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	83.8 g/pc(s)
GTIN	4013364109711
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.

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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