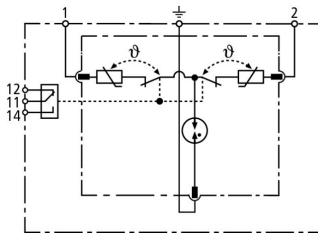


**DR M 2P 255 SN1803FM (953 229)**

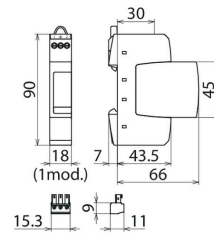
- Two-pole surge arrester consisting of a base part and a plug-in protection module
- High discharge capacity due to heavy-duty zinc oxide varistor / spark gap combination
- Energy coordination with other arresters of the Red/Line product family



Figure without obligation



Basic circuit diagram DR M 2P 255 SN1803FM



Dimension drawing DR M 2P 255 SN1803FM

Two-pole surge arrester consisting of a base part and a plug-in protection module; with floating remote signalling contact. Can be used for systems with a load current up to 32 A.

Type	DR M 2P 255 SN1803FM
Part No.	953 229
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 (a.c.) ( $U_c$ )	255 V (50 / 60 Hz)
Max. continuous operating voltage (d.c.) ( $U_c$ )	255 V
Nominal discharge current (8/20 $\mu$ s) ( $I_n$ )	3 kA
Total discharge current (8/20 $\mu$ s) [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] ( $U_p$ )	$\leq 1250 / \leq 1500$ V
Response time [L-N] ( $t_a$ )	$\leq 25$ ns
Response time [L/N-PE] ( $t_a$ )	$\leq 100$ ns
Max. mains-side overcurrent protection	32 A gG or B 32 A
Short-circuit withstand capability for mains-side overcurrent protection with 32 A gG ( $I_{SCCR}$ )	6 kA <sub>rms</sub>
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) [L/N-PE] ( $U_T$ ) – Characteristic	335 V / 120 min. – withstand
Temporary overvoltage (TOV) [L/N-PE] ( $U_T$ ) – Characteristic	440 V / 5 sec. – withstand
Temporary overvoltage (TOV) [L+N-PE] ( $U_T$ ) – Characteristic	1200 V + $U_{REF}$ / 200 ms – safe failure
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 mm <sup>2</sup> solid / flexible
Cross-sectional area (max.)	4 mm <sup>2</sup> solid / 2.5 mm <sup>2</sup> 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 module(s), 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 mm <sup>2</sup> solid / flexible
Weight	83 g
Customs tariff number (Comb. Nomenclature EU)	85363030
GTIN	4013364158993
PU	1 pc(s)

Protection module upon request

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.