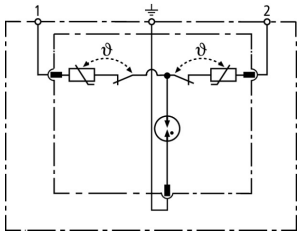
# DR M 2P 255 SN1802 (953 228)

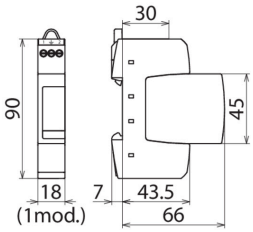
- Two-pole surge arrester consisting of a base part and a plug-in protection module
- High discharge capacity due to heavy-duty zinc oxide varistor / spark gap combination
- Energy-coordinated within the Red/Line product family



Figure without obligation




Basic circuit diagram DR M 2P 255 SN1802




Dimension drawing DR M 2P 255 SN1802

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

| Type<br>Part No. | DR M 2P 255 SN1802<br>953 228 |
|---|---|
| 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 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 | 32 A gG or B 32 A |
| Short-circuit withstand capability for mains-side overcurrent protection with 32 A gG ($I_{SCCR}$) | 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) [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 $mm^2$ solid / flexible |
| Cross-sectional area (max.) | 4 $mm^2$ solid / 2.5 $mm^2$ 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 |
| Weight | 79 g |
| Customs tariff number (Comb. Nomenclature EU) | 85363030 |
| GTIN | 4013364158986 |
| 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.