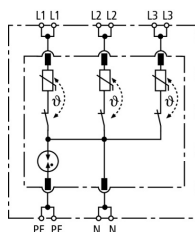


## DR M 4P 255 (953 400)

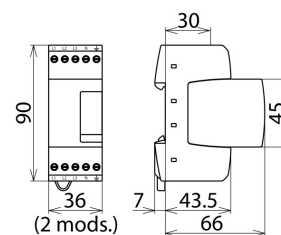
- Four-pole surge arrester consisting of a base element and a plug-in protection module
- High discharge capacity due to heavy-duty zinc oxide varistor / spark gap combination
- Energy coordination with other arresters of the Red/Line product family



Figure without obligation



Basic circuit diagram DR M 4P 255



Dimension drawing DR M 4P 255

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

| Type                                                                                                    | DR M 4P 255                                               |
|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| Part No.                                                                                                | 953 400                                                   |
| SPD according to EN 61643-11 / IEC 61643-11                                                             | type 3 / class III                                        |
| Nominal voltage (a.c.) ( $U_N$ )                                                                        | 230 / 400 V (50 / 60 Hz)                                  |
| Max. continuous operating voltage (a.c.) ( $U_C$ )                                                      | 255 / 440 V (50 / 60 Hz)                                  |
| Nominal load current (a.c.) ( $I_L$ )                                                                   | 25 A                                                      |
| Nominal discharge current (8/20 $\mu$ s) ( $I_n$ )                                                      | 3 kA                                                      |
| Total discharge current (8/20 $\mu$ s) [ $L1+L2+L3+N-PE$ ] ( $I_{total}$ )                              | 8 kA                                                      |
| Combination wave ( $U_{OC}$ )                                                                           | 6 kV                                                      |
| Combination wave [ $L1+L2+L3+N-PE$ ] ( $U_{OC total}$ )                                                 | 16 kV                                                     |
| Voltage protection level [ $L-N$ ] / [ $L/N-PE$ ] ( $U_P$ )                                             | $\leq 1000$ / $\leq 1500$ 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                                                                  | 25 A gG or B 25 A                                         |
| Short-circuit withstand capability for mains-side overcurrent protection with 25 A gL/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) [ $N-PE$ ] ( $U_T$ ) – Characteristic                                       | 1200 V / 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> stranded / 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                                                                                                | 2 modules, DIN 43880                                      |
| Approvals                                                                                               | KEMA, VDE                                                 |
| Weight                                                                                                  | 147 g                                                     |
| Customs tariff number (Comb. Nomenclature EU)                                                           | 85363030                                                  |
| GTIN                                                                                                    | 4013364115767                                             |
| 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.