

# DM-012/1 3R DJ

## SPD - for data, signalling and telecommunications lines / I&C / ST2+3 (DM) - compact

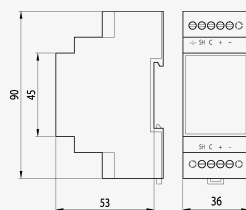
Surge protection for 3-core signalling lines

coupling impedance ( $R$  – resistance)

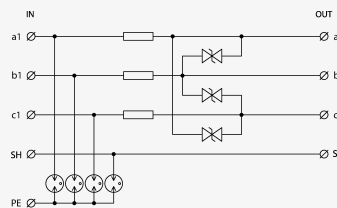
- coarse and fine surge protection for 3-core signalling lines
- installation close to protected equipment
- for protection of communication interfaces of I&C, electronic security and fire detection systems, etc. (mainly for RS-485 interfaces) against impact of surge voltage
- coarse and fine surge protection in differential mode (core – core) and coarse protection in common mode (core – PE)



Product dimensions



Basic circuit diagram



| Parameter name                                       |       | Parameter value |
|------------------------------------------------------|-------|-----------------|
| Type of SPD                                          |       | C2,C3           |
| Location of SPD                                      |       | ST 2+3          |
| Mounting                                             |       | DIN rail 35 mm  |
| Nominal voltage                                      | $U_n$ | 12 V DC         |
| Maximum operating voltage                            | $U_c$ | 10.20 V AC      |
| Maximum operating voltage                            | $U_c$ | 14.50 V DC      |
| Nominal load current                                 | $I_L$ | 0.060 A         |
| Treshold frequency core-core                         | $f$   | 1.70 MHz        |
| Serial resistance per core                           | $R$   | 6.80 $\Omega$   |
| C2 nominal discharge current (8/20 $\mu$ s) per core | $I_n$ | 10.00 kA        |
| C2 voltage protection level mode core-PE at $I_n$    | $U_p$ | 350 V           |

|                                                             |       |                                                 |
|-------------------------------------------------------------|-------|-------------------------------------------------|
| C2 voltage protection level mode core-core at In            | $U_p$ | 35 V                                            |
| C3 voltage protection level mode core-PE at 1 kV/ $\mu$ s   | $U_p$ | 650 V                                           |
| C3 voltage protection level mode core-core at 1 kV/ $\mu$ s | $U_p$ | 20 V                                            |
| Response time core-core                                     | $t_a$ | 1 ns                                            |
| Response time core-PE                                       | $t_a$ | 100 ns                                          |
| Connection (input - output)                                 |       | terminals-terminals                             |
| Cross-section of connected conductors solid (max)           |       | 4.00 mm <sup>2</sup>                            |
| Cross-section of connected conductors stranded (max)        |       | 2.50 mm <sup>2</sup>                            |
| Degree of protection                                        |       | IP 20                                           |
| Range of ambient temperatures (min/max)                     |       | -40 / 80 °C                                     |
| According to standard                                       |       | EN 61643-21+A1,A2:2013, IEC 61643-21+A1,A2:2012 |
| ETIM Class                                                  |       | EC001625                                        |
| Customs tariff number                                       |       | 85363010                                        |
| EAN                                                         |       | 8595090513490                                   |
| Order number                                                |       | A01349                                          |