

# DM-012/1 3L DJ

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

Surge protection for 3-core signalling lines

coupling impedance (L – inductance)

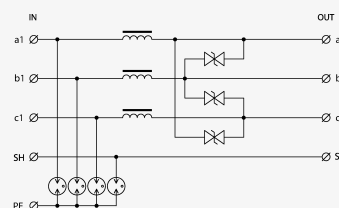
- coarse and fine surge protection for 3-core signalling lines
- installation close to protected equipment
- for protection of communication interfaces of I&C, electronic security and fire detection systems, etc. (mainly for RS-485 interfaces) against impact of surge voltage
- coarse and fine surge protection 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  | <b>C2,C3</b>            |
| Location of SPD                                      | <b>ST 2+3</b>           |
| Mounting   | <b>DIN rail 35 mm</b>   |
| Nominal voltage                                      | $U_n$ <b>12.00 V DC</b> |
| Maximum operating voltage                            | $U_c$ <b>10.20 V AC</b> |
| Maximum operating voltage                            | $U_c$ <b>14.50 V DC</b> |
| Nominal load current                                 | $I_L$ <b>0.370 A</b>    |
| Threshold frequency core-core                        | $f$ <b>0.16 MHz</b>     |
| Serial inductance per core                           | $L$ <b>100.00 uH</b>    |
| C2 nominal discharge current (8/20 $\mu$ s) per core | $I_n$ <b>10.00 kA</b>   |
| C2 voltage protection level mode core-PE at $I_n$    | $U_p$ <b>350.00 V</b>   |

|   |       |   |
|---|-------|---|
| C2 voltage protection level mode core-core at In            | $U_p$ | 35.00 V   |
| C3 voltage protection level mode core-PE at 1 kV/ $\mu$ s   | $U_p$ | 650.00 V  |
| C3 voltage protection level mode core-core at 1 kV/ $\mu$ s | $U_p$ | 20.00 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   |       | 8595090520948                                   |
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