# DM-012/1 3R DJ

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

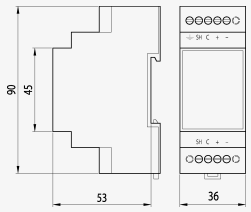
Surge protection for 3-core signalling lines

coupling impedance (R – resistance)

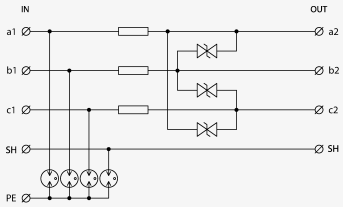
- coarse and fine surge protection for 3-core signalling lines
- installation close to protected equipment
- for protection of communication interfaces of I&C, electronic security and fire detection systems, etc. (mainly for RS-485 interfaces) against impact of surge voltage
- coarse and fine surge protection 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 | $U_n$ | 12.00 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 Ω |
| C2 nominal discharge current (8/20 µs) per core | $I_n$ | 10.00 kA |
| C2 voltage protection level mode core-PE at In | $U_p$ | 350.00 V |

| | | |
|---|---|---|
| C2 voltage protection level mode core-core at In | $U_p$ | 35.00 V |
| C3 voltage protection level mode core-PE at 1 kV/µs | $U_p$ | 650.00 V |
| C3 voltage protection level mode core-core at 1 kV/µs | $U_p$ | 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 $mm^2$ |
| Cross-section of connected conductors stranded (max) | | 2.50 $mm^2$ |
| 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 |