

DM-048/1-R-DJ

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

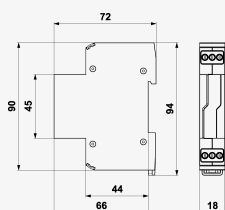
Surge protection for 2-core signalling lines

coupling impedance (R – resistance)

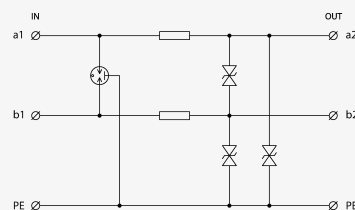
- coarse and fine surge protection for 2-core signalling lines
- installation close to protected equipment
- for protection of communication interfaces of I&C, electronic security and fire detection systems, etc. (mainly for RS-485 interfaces) against impact of surge voltage
- coarse and fine surge protection in differential mode (core – core) and common mode (core – PE)



Product dimensions



Basic circuit diagram



| Parameter name | | Parameter value |
|--|-------------|-----------------|
| Type of SPD | | D1,C1,C2,C3,B2 |
| Location of SPD | | ST 2+3 |
| Mounting | | DIN rail 35 mm |
| Nominal voltage | U_n | 48.00 V DC |
| Maximum operating voltage | U_c | 35.60 V AC |
| Maximum operating voltage | U_c | 50.20 V DC |
| Nominal load current | I_L | 0.500 A |
| Threshold frequency core-core | f | 5.00 MHz |
| Serial resistance per core | R | 1.00 Ω |
| D1 total discharge current (10/350 μ s) cores-PE | I_{Total} | 1.00 kA |
| C1 voltage protection level mode core-core | U_p | 85.00 V |

| | | |
|---|-------------|---|
| C1 test voltage mode core-core | U_{OC} | 4.00 kV |
| C1 voltage protection level mode core-PE | U_p | 85.00 V |
| C1 test voltage mode core-PE | U_{OC} | 4.00 kV |
| B2 voltage protection level mode core-core | U_p | 70.00 V |
| B2 test voltage mode core-core | U_{OC} | 1.00 kV |
| B2 voltage protection level mode core-PE | U_p | 70.00 V |
| B2 test voltage mode core-PE | U_{OC} | 1.00 kV |
| C2 nominal discharge current (8/20 μ s) per core | I_n | 10.00 kA |
| C2 total discharge current (8/20 μ s) cores-PE | I_{Total} | 20.00 kA |
| C3 nominal discharge current (10/1000 μ s) core-PE | I_{SM} | 10.00 A |
| C3 nominal discharge current (10/1000 μ s) core-core | I_{SM} | 10.00 A |
| C2 voltage protection level mode core-PE at I_n | U_p | 95.00 V |
| C2 test voltage mode core-PE | U_{OC} | 20.00 kV |
| C2 voltage protection level mode core-core at I_n | U_p | 95.00 V |
| C2 test voltage mode core-core | U_{OC} | 20.00 kV |
| C3 voltage protection level mode core-PE at 1 kV/ μ s | U_p | 70.00 V |
| C3 voltage protection level mode core-core at 1 kV/ μ s | U_p | 70.00 V |
| Response time core-core | t_a | 1 ns |
| Response time core-PE | t_a | 1 ns |
| Connection (input - output) | | terminals-terminals |
| Cross-section of connected conductors solid (max) | | 4.00 mm ² |
| Cross-section of connected conductors stranded (max) | | 4.00 mm ² |
| Degree of protection | | IP 20 |
| Range of ambient temperatures (min/max) | | -40 / 80 °C |
| Humidity | | 5 - 95 % |
| According to standard | | EN 61643-21+A1,A2:2013, IEC 61643-21+A1,A2:2012 |
| ETIM Class | | EC001625 |
| Customs tariff number | | 85363010 |
| EAN | | 8595090567295 |
| Order number | | A06729 |

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