

# BDM-024-V/1-FR1

## SPD - for data, signalling and telecommunications lines / I&C / ST1+2+3 (BDM, BDG) - pluggable

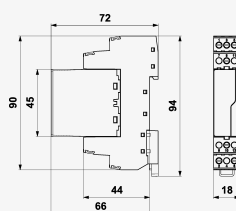
Lightning current arrester combined with fine surge protection for 2/3-core signalling lines

pluggable module, coupling impedance (R – resistance), line separated from protective earth via GDT

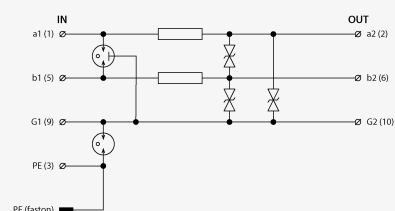
- coarse and fine surge protection of 2/3-core telecommunication, data and other lines
- installation at the boundary of LPZ 0 and LPZ 1 zones at the line entry into building
- for protection of communication interfaces of I&C, electronic security and fire detection systems, etc. (mainly for RS-485 interfaces) against impact of surge voltage
- coarse and fine surge protection (core – core, GND) in differential mode and coarse surge protection in common mode (line – PE)



Product dimensions



Basic circuit diagram



| Parameter name   | Parameter value   |
|--|-------------------|
| Type of SPD  | D1,C2             |
| Location of SPD  | ST 1+2+3          |
| Mounting   | DIN rail 35 mm    |
| Nominal voltage  | $U_n$ 24.00 V DC  |
| Maximum operating voltage                              | $U_c$ 25.00 V AC  |
| Maximum operating voltage                              | $U_c$ 36.00 V DC  |
| Nominal load current                                   | $I_L$ 1.000 A     |
| Threshold frequency core-core                          | $f$ 4.00 MHz      |
| Serial resistance per core                             | $R$ 0.80 $\Omega$ |
| D1 impulse discharge current (10/350 $\mu$ s) per core | $I_{imp}$ 2.50 kA |

|   |             |   |
|---|-------------|---|
| D1 total discharge current (10/350 $\mu$ s) cores-PE        | $I_{Total}$ | 5.00 kA   |
| C2 nominal discharge current (8/20 $\mu$ s) GND-PE          | $I_n$       | 10.00 kA  |
| C2 nominal discharge current (8/20 $\mu$ s) per core        | $I_n$       | 10.00 kA  |
| C2 total discharge current (8/20 $\mu$ s) cores-PE          | $I_{Total}$ | 20.00 kA  |
| C3 nominal discharge current (10/1000 $\mu$ s) core-PE      | $I_{SM}$    | 10.00 A   |
| C3 nominal discharge current (10/1000 $\mu$ s) core-core    | $I_{SM}$    | 10.00 A   |
| C3 voltage protection level mode GND-PE at 1 kV/ $\mu$ s    | $U_p$       | 550.00 V  |
| C3 voltage protection level mode core-GND at 1 kV/ $\mu$ s  | $U_p$       | 46.00 V   |
| C3 voltage protection level mode core-core at 1 kV/ $\mu$ s | $U_p$       | 46.00 V   |
| Response time core-core                                     | $t_a$       | 1 ns  |
| Response time core-GND                                      | $t_a$       | 1 ns  |
| Response time GND-PE  | $t_a$       | 100 ns  |
| Connection (input - output)                                 |             | terminals-terminals                             |
| Cross-section of connected conductors solid (min)           |             | 0.14 mm <sup>2</sup>                            |
| Cross-section of connected conductors solid (max)           |             | 4.00 mm <sup>2</sup>                            |
| Cross-section of connected conductors stranded (min)        |             | 0.14 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 / 70 °C                                     |
| According to standard                                       |             | EN 61643-21+A1,A2:2013, IEC 61643-21+A1,A2:2012 |
| ETIM Class  |             | EC001466  |
| Plug module   |             | BDM-024-V/1-0                                   |
| Customs tariff number                                       |             | 85363010  |
| EAN   |             | 8595090557111                                   |
| Order number  |             | A05711  |