

# BDG-006-V/2-FR1

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

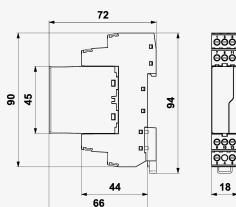
Lightning current arrester with coarse and fine surge protection for two 2-core shielding floating signalling lines

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

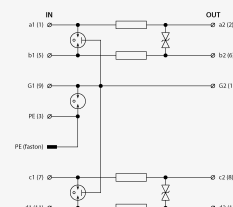
- lightning current arrester with coarse and fine surge protection for two 2-core signalling lines
- installation at the boundary of LPZ 0 and LPZ 1 zones or higher, at the line entry into building and also installation close to protected device
- for protection of communication interfaces of I&C, MaR systems, electronic security and fire detection systems, etc. (mainly for RS-485 inter- faces) against impact of surge voltage
- coarse and fine surge protection (core – core) 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              | $U_n$ 6.00 V DC   |
| Maximum operating voltage    | $U_c$ 6.00 V AC   |
| Maximum operating voltage    | $U_c$ 8.50 V DC   |
| Nominal load current         | $I_L$ 1.000 A     |
| Treshold frequency core-core | $f$ 1.20 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  | $U_p$       | 550.00 V  |
| C3 voltage protection level mode core-core at 1 kV/ $\mu$ s | $U_p$       | 12.00 V   |
| Response time core-core                                     | $t_a$       | 1 ns  |
| Response time core-GND                                      | $t_a$       | 100 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  |             | EC001625  |
| Plug module   |             | BDG-006-V/2-0                                   |
| Customs tariff number                                       |             | 85363010  |
| EAN   |             | 8595090564720                                   |
| Order number  |             | A06472  |

