

# BDM-048-V/4-JFR1

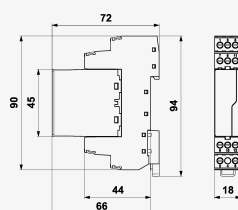
## SPD - for data, signalling and telecommunications lines / I&C / ST1+2+3 (BDM, BDG) - plugable

Lightning current arrester with coarse and fine surge protection for four 1-core signalling lines plugable module, coupling impedance ( $R$  – resistance), line separated from protective earth via GDT

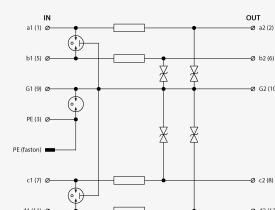
- lightning current arrester with coarse and fine surge protection for four 1-core signalling lines
- installation at the boundary of LPZ 0 and LPZ 1 zones or higher, at the line entry into building and also installation close to protected device
- for protection of communication inter- faces of I&C, MaR systems, electronic security and fire detection systems, etc. (mainly for RS-485 interfaces) against impact of surge voltage
- coarse and fine surge protection (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              | $U_n$ | 48 V DC         |
| Maximum operating voltage    | $U_c$ | 36.00 V AC      |
| Maximum operating voltage    | $U_c$ | 51.00 V DC      |
| Nominal load current         | $I_L$ | 1.000 A         |
| Treshold frequency core-core | $f$   | 5.00 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 A                                            |
| C3 nominal discharge current (10/1000 $\mu$ s) core-core   | $I_{SM}$    | 10 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 | $U_p$       | 65.00 V                                         |
| 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                                                 |             | EC001625                                        |
| Plug module                                                |             | BDM-048-V/4-J-0                                 |
| Customs tariff number                                      |             | 85363010                                        |
| EAN                                                        |             | 8595090564355                                   |
| Order number                                               |             | A06435                                          |