

BDM-012-V/2-JFR1

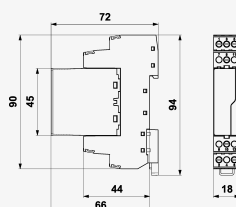
SPD - for data, signalling and telecommunications lines / I&C / ST1+2+3 (BDM, BDG) - plugable

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

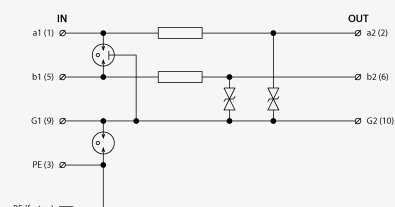
- lightning current arrester with coarse and fine surge protection for two 1-core signalling lines
- installation at the boundary of LPZ 0 and LPZ 1 zones or higher, at the line entry into building and also installation close to protected device
- for protection of communication interfaces of I&C, MaR 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 | 0 V AC |
| Nominal voltage | U_n | 12 V DC |
| Maximum operating voltage | U_c | 11.00 V AC |
| Maximum operating voltage | U_c | 16.00 V DC |
| Nominal load current | I_L | 1.000 A |
| Treshold frequency core-core | f | 2.00 MHz |
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| | | |
|--|--------------------|---|
| Serial resistance per core | R | 0.80 Ω |
| D1 impulse discharge current (10/350 μs) per core | I _{imp} | 2.50 kA |
| D1 total discharge current (10/350 μs) cores-PE | I _{Total} | 5.00 kA |
| C2 nominal discharge current (8/20 μs) GND-PE | I _n | 10.00 kA |
| C2 nominal discharge current (8/20 μs) per core | I _n | 10.00 kA |
| C2 total discharge current (8/20 μs) cores-PE | I _{Total} | 20.00 kA |
| C3 nominal discharge current (10/1000 μs) core-PE | I _{SM} | 10 A |
| C3 nominal discharge current (10/1000 μs) core-core | I _{SM} | 10 A |
| C3 voltage protection level mode GND-PE at 1 kV/μs | U _p | 550.00 V |
| C3 voltage protection level mode core-GND at 1 kV/μs | U _p | 22.00 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 ² |
| Cross-section of connected conductors solid (max) | | 4.00 mm ² |
| Cross-section of connected conductors stranded (min) | | 0.14 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 / 70 °C |
| According to standard | | EN 61643-21+A1,A2:2013, IEC 61643-21+A1,A2:2012 |
| ETIM Class | | EC001625 |
| Plug module | | DM-012-V/2-J-0 BDM-012-V/2-J-0 |
| Customs tariff number | | 85363010 |
| EAN | | 8595090564034 |
| Order number | | A06403 |