

# DMG-024/1-RB

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

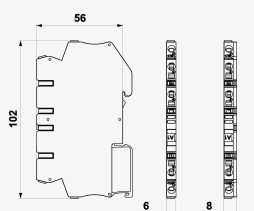
Surge protection for 2-core floating signalling networks

coupling impedance (resistance), screwless terminals

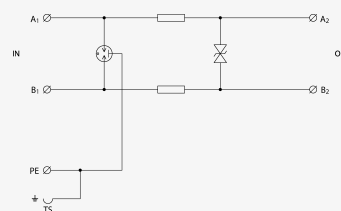
- coarse and fine surge protection for 2-core signalling networks
- installation close to protected equipment
- for protection of communication interfaces and measuring lines of I&C, electronic security and fire detection systems, etc. against impact of surge voltage
- coarse and fine surge protection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



Product dimensions



Basic circuit diagram



| Parameter name   | Parameter value |
|--|-----------------|
| Type of SPD  | C2,C3           |
| Location of SPD  | ST 2+3          |
| Mounting   | DIN rail 35 mm  |
| Nominal voltage $U_n$  | 24 V DC         |
| Maximum operating voltage $U_c$                                  | 25.00 V AC      |
| Maximum operating voltage $U_c$                                  | 36.00 V DC      |
| Nominal load current $I_L$                                       | 0.500 A         |
| Threshold frequency core-core $f$                                | 4.00 MHz        |
| Serial resistance per core $R$                                   | 1.60 $\Omega$   |
| D1 impulse discharge current (10/350 $\mu$ s) per core $I_{imp}$ | 0.50 kA         |

|   |   |          |
|---|---|----------|
| D1 total discharge current (10/350 $\mu$ s) cores-PE        | $I_{Total}$                                     | 1.00 kA  |
| C2 nominal discharge current (8/20 $\mu$ s) per core        | $I_n$   | 5.00 kA  |
| C2 total discharge current (8/20 $\mu$ s) cores-PE          | $I_{Total}$                                     | 10.00 kA |
| C2 voltage protection level mode core-PE at $I_n$           | $U_p$   | 350 V    |
| C2 voltage protection level mode core-core at $I_n$         | $U_p$   | 50 V     |
| C3 voltage protection level mode core-PE at 1 kV/ $\mu$ s   | $U_p$   | 500 V    |
| C3 voltage protection level mode core-core at 1 kV/ $\mu$ s | $U_p$   | 45 V     |
| Response time core-core                                     | $t_a$   | 1 ns     |
| Response time core-PE                                       | $t_a$   | 100 ns   |
| Connection (input - output)                                 | screwless terminals/screwless terminals         |          |
| Cross-section of connected conductors solid (min)           | 0.08 mm <sup>2</sup>                            |          |
| Cross-section of connected conductors solid (max)           | 4.00 mm <sup>2</sup>                            |          |
| Cross-section of connected conductors stranded (min)        | 0.08 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  |          |
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