

# DL-1G-60V-POE-M

## SPD - for data, signalling and telecommunications lines / ICT / Ethernet and PoE - for 19" RACK

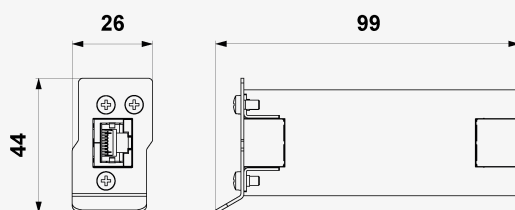
SPD for general structured cabling networks (Ethernet up to Cat.6)

for general structured cabling networks

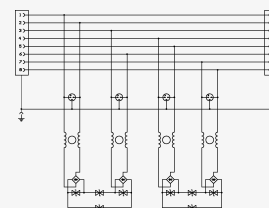
- combination of coarse and fine protection of Ethernet line with PoE and structured cabling networks with signals with amplitudes up to 60 V
- installation at the entry of the line into building or close to the protected equipment, at the boundary of LPZ 0 a LPZ 1 or higher
- for protection of Ethernet line with PoE, IP telephony, KNX, DMX, RS-485, signalling loops and other signals over twisted pairs against surge voltage
- suitable for all PoE types - PoE/PoE+/PoE++ (IEEE 802.3 af/at/bt)
- installation into DL-PL-RACK-1U box



Product dimensions



Basic circuit diagram



| Parameter name   |             | Parameter value             |
|--|-------------|-----------------------------|
| Type of SPD  |             | D1,C2,C3                    |
| Location of SPD  |             | ST 1+2+3                    |
| Mounting   |             | DL-PL-RACK-1U               |
| Maximum operating voltage core-core                          | $U_c$       | 60,00 V DC                  |
| Maximum operating voltage pair-pair (POE)                    | $U_c$       | 60,00 V DC                  |
| Nominal load current per core at 25 °C                       | $I_L$       | 0.5 A                       |
| Treshold frequency core-core                                 | $f$         | 250.00 MHz                  |
| Insertion attenuation at treshold frequency                  |             | 1.50 dB                     |
| C2 nominal discharge current (8/20 $\mu$ s) core-core        | $I_n$       | 0.15 kA                     |
| D1 total discharge current (10/350 $\mu$ s) cores-PE         | $I_{Total}$ | 2.00 kA                     |
| C2 total discharge current (8/20 $\mu$ s) cores-PE           | $I_{Total}$ | 10.00 kA                    |
| C2 voltage protection level mode core-core (@ $U_{oc}/I_n$ ) | $U_p$       | 120,00 V (0,3 kV / 0,15 kA) |

|  |       |   |
|--|-------|---|
| C2 voltage protection level mode core-PE (@Uoc/In)                     | $U_p$ | 700,00 V (2,5 kV / 1,25 kA)                     |
| C2 voltage protection level mode pair-pair (POE) (@Uoc/In)             | $U_p$ | 90,00 V (0,3 kV / 0,15 kA)                      |
| C3 voltage protection level mode core-core (@In - 1 kV/ $\mu$ s)       | $U_p$ | 110,00 V (10 A)                                 |
| C3 voltage protection level mode core-PE (@In - 1 kV/ $\mu$ s)         | $U_p$ | 500,00 V (10 A)                                 |
| C3 voltage protection level mode pair-pair (POE) (@In - 1 kV/ $\mu$ s) | $U_p$ | 85,00 V (10 A)                                  |
| Response time core-core  | $t_a$ | 1 ns  |
| Response time core-PE  | $t_a$ | 100 ns  |
| Connection (input - output)  |       | RJ 45/RJ 45                                     |
| Degree of protection   |       | IP 30 (without connectors IP 10)                |
| Range of ambient temperatures (min/max)                                |       | -10 / 50 °C                                     |
| Humidity   |       | 15 - 85 %                                       |
| According to standard  |       | EN 61643-21+A1,A2:2013, IEC 61643-21+A1,A2:2012 |
| ETIM Class   |       | EC000943  |
| Customs tariff number  |       | 85363010  |
| EAN  |       | 8595090570851                                   |
| Order number   |       | A07085  |