

# DL-Cat.6A-60V-R-M

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

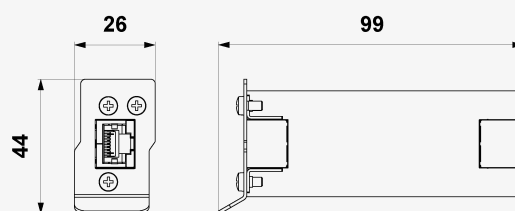
Fine surge protector module for Ethernet networks with PoE and general structured cabling

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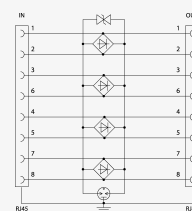
- fine surge protection of Ethernet line with PoE and structured cabling networks with signals with amplitudes up to 60 V
- installation at the entry of the line into building or close to the protected equipment, at the boundary of LPZ 0 and LPZ 1 or higher
- for protection of Ethernet line with PoE, 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
- DL-...-M with front output
- DL-...-m-R with rear output



Product dimensions



Basic circuit diagram



| Parameter name                                        |             | Parameter value |
|-------------------------------------------------------|-------------|-----------------|
| Type of SPD                                           |             | C2,C3           |
| Location of SPD                                       |             | ST 2+3          |
| Mounting                                              |             | DL-PL-RACK-1U   |
| Maximum operating voltage core-core                   | $U_c$       | 60 V DC         |
| Maximum operating voltage pair-pair (POE)             | $U_c$       | 60 V DC         |
| Nominal load current per core at 25 °C                | $I_L$       | 0.5 A           |
| Treshold frequency core-core                          | $f$         | 500.00 MHz      |
| Insertion attenuation at treshold frequency           |             | 2.90 dB         |
| C2 nominal discharge current (8/20 $\mu$ s) core-core | $I_n$       | 0.20 kA         |
| C2 nominal discharge current (8/20 $\mu$ s) per core  | $I_n$       | 0.20 kA         |
| C2 total discharge current (8/20 $\mu$ s) cores-PE    | $I_{Total}$ | 1.60 kA         |

|                                                                        |       |                                                 |
|------------------------------------------------------------------------|-------|-------------------------------------------------|
| C2 voltage protection level mode core-core (@Uoc/In)                   | $U_p$ | 130,00 V (0,4 kV / 0,2 kA)                      |
| C2 voltage protection level mode core-PE (@Uoc/In)                     | $U_p$ | 400,00 V (0,4 kV / 0,2 kA)                      |
| C2 voltage protection level mode pair-pair (POE) (@Uoc/In)             | $U_p$ | 130,00 V (0,4 kV / 0,2 kA)                      |
| C3 voltage protection level mode core-core (@In - 1 kV/ $\mu$ s)       | $U_p$ | 130,00 V (10 A)                                 |
| C3 voltage protection level mode core-PE (@In - 1 kV/ $\mu$ s)         | $U_p$ | 600,00 V (10 A)                                 |
| C3 voltage protection level mode pair-pair (POE) (@In - 1 kV/ $\mu$ s) | $U_p$ | 130,00 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 |
| Customs tariff number                                                  |       | 85363010                                        |
| EAN                                                                    |       | 8595090542094                                   |
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