

# DL-1G-POE-M

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

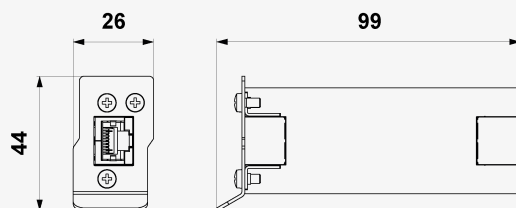
SPD for Ethernet networks (up to Cat.6)

LPZ 0 and higher, for high-speed Ethernet networks with PoE

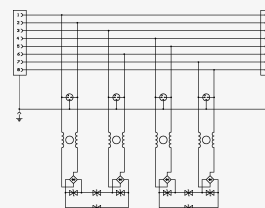
- combination of coarse and fine protection of Ethernet line with PoE
- installation at the entry of the line into building or close to the protected equipment, at the boundary of LPZ 0 and LPZ 1 or higher
- for protection of Ethernet line with PoE (Power over Ethernet) against surge voltage
- suitable 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		<b>D1,C2,C3</b>
Location of SPD		<b>ST 1+2+3</b>
Mounting		<b>DL-PL-RACK-1U</b>
Maximum operating voltage core-core	<b>U<sub>C</sub></b>	<b>8,50 V DC</b>
Maximum operating voltage pair-pair (POE)	<b>U<sub>C</sub></b>	<b>58,00 V DC</b>
Nominal load current per core at 25 °C	<b>I<sub>L</sub></b>	<b>0.5 A</b>
Treshold frequency core-core	<b>f</b>	<b>250.00 MHz</b>
Insertion attenuation at treshold frequency		<b>2.80 dB</b>
C2 nominal discharge current (8/20 μs) core-core	<b>I<sub>n</sub></b>	<b>0.15 kA</b>
C2 nominal discharge current (8/20 μs) core-PE	<b>I<sub>n</sub></b>	<b>1.25 kA</b>
C2 nominal discharge current (8/20 μs) pair-pair (POE)	<b>I<sub>n</sub></b>	<b>0.15 kA</b>
D1 total discharge current (10/350 μs) cores-PE	<b>I<sub>Total</sub></b>	<b>2.00 kA</b>
C2 total discharge current (8/20 μs) cores-PE	<b>I<sub>Total</sub></b>	<b>10.00 kA</b>

C2 voltage protection level mode core-core (@Uoc/In)	$U_p$	60,00 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)	$U_p$	45,00 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
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