

Surge protection device - D-LAN-19"-24 - 2838791

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19" rack with 24 surge protected ports for data interfaces in Ethernet (1000Base-T), Token Ring and FDDI/CDDI networks in acc. with Class D/EN 50173 (CAT5e), connection on the protective device: RJ45 sockets



Product Features

- 19" rack for installation in storey distributors
- Protection of all eight signal wires of the data cable
- Reliable transmission speeds up to 1 Gbps
- Up to 24 ports with RJ45 connection
- Indirect grounding via a gas-filled surge arrester in the housing
- Direct grounding via a connection on the housing



Key Commercial Data

| | |
|--------------------------------------|----------|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 3094.0 g |
| Custom tariff number | 85363010 |
| Country of origin | Germany |

Technical data

Dimensions

| | |
|-------------|--------|
| Height | 44 mm |
| Width | 483 mm |
| Depth | 160 mm |
| Height unit | 1 U |

Ambient conditions

| | |
|---------------------------------|------------------|
| Ambient temperature (operation) | -40 °C ... 80 °C |
| Degree of protection | IP20 |

General

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Technical data

General

| | |
|---|---|
| Housing material | Sheet steel |
| Color | beige |
| Standards for clearances and creepage distances | DIN VDE 0110-1 |
| | IEC 60664-1 |
| Overvoltage category | II |
| Degree of pollution | 2 |
| Mounting type | 19" rack |
| Type | 19" rack patch module |
| Number of positions | 24 |
| Direction of action | Line-Line & Line-Signal Ground/Shield & Signal Ground/Shield-Earth Ground |

Protective circuit

| | |
|--|--------------------------------------|
| IEC test classification | C1 |
| | C2 |
| | C3 |
| | B3 |
| Maximum continuous voltage U_C (wire-wire) | 6 V DC |
| Maximum continuous voltage U_C (wire-ground) | 68 V DC (optional: +/- 6 V DC) |
| Nominal current I_N | 1.5 A (25 °C) |
| Operating effective current I_C at U_C | ≤ 1 mA |
| Residual current I_{PE} | ≤ 1 mA (jumper 2 unplugged) |
| Nominal discharge current I_n (8/20) μ s (Core-Core) | 350 A |
| Nominal discharge current I_n (8/20) μ s (Core-Earth) | 350 A |
| Nominal discharge current I_n (8/20) μ s (Shield-Earth) | 2.5 kA (with insulated housing) |
| Total surge current (8/20) μ s | 10 kA |
| Nominal pulse current I_{an} (10/1000) μ s (Core-Core) | 100 A |
| Nominal pulse current I_{an} (10/1000) μ s (Core-Earth) | 100 A |
| Output voltage limitation at 1 kV/ μ s (Core-Core) static | ≤ 20 V |
| Output voltage limitation at 1 kV/ μ s (Core-Earth) static | ≤ 30 V (J2 plugged) |
| | ≤ 170 V (J2 unplugged) |
| Output voltage limitation at 1 kV/ μ s (Shield-Earth) static | ≤ 700 V (with insulated shield) |
| Residual voltage at I_n (conductor-conductor) | ≤ 65 V |
| Residual voltage at I_n (conductor-ground) | ≤ 45 V (J2 ON) |
| | ≤ 220 V (J2 OFF) |
| Residual voltage at I_n (shield-ground) | ≤ 700 V |
| Voltage protection level U_p (core-core) | ≤ 50 V (C1, 500 V/250 A) |

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Technical data

Protective circuit

| | |
|--|--|
| Voltage protection level U_p (core-ground) | ≤ 40 V (C1, 500 V/250 A (J2 ON)) |
| | ≤ 180 V (C1, 500 V/250 A (J2 OFF)) |
| Voltage protection level U_p (shield-ground) | ≤ 800 V (with insulated housing) |
| Response time t_A (Core-Core) | ≤ 1 ns |
| Response time t_A (Core-Earth) | ≤ 1 ns |
| Response time t_A (Core-GND) | ≤ 100 ns |
| Input attenuation a_E , sym. | typ. 1 dB (≤ 100 MHz) |
| Near-end crosstalk attenuation | typ. 36 dB (100 Ω system / 100 MHz) |
| Cut-off frequency f_g (3 dB), sym. in 100 Ohm system | > 100 MHz |
| Capacity (Core-Core) | typ. 20 pF |
| Capacity (Core-Earth) | typ. 1 pF |
| Impulse durability (conductor-conductor) | C1 - 500 V / 250 A |
| Impulse durability (conductor-ground) | C1 (500 A/250 A) |
| Impulse durability (shield-ground) | C2 (4 kV / 2 kA) |

Connection data

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|---------------------|--|
| Connection method | RJ45 |
| Connection type IN | RJ45 socket |
| Connection type OUT | RJ45 socket |
| Connection method | Network interfaces (e.g. Ethernet, Token Ring and CDDI/FDDI) |

Standards and Regulations

| | |
|-----------------------|----------------|
| Standards/regulations | IEC 61643-21 |
| | DIN EN 50173-1 |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27140201 |
| eCl@ss 4.1 | 27130801 |
| eCl@ss 5.0 | 27130801 |
| eCl@ss 5.1 | 27130801 |
| eCl@ss 6.0 | 27130807 |
| eCl@ss 7.0 | 27130807 |
| eCl@ss 8.0 | 27130807 |
| eCl@ss 9.0 | 27130807 |

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Classifications

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC000943 |
| ETIM 3.0 | EC000943 |
| ETIM 4.0 | EC000943 |
| ETIM 5.0 | EC000943 |

UNSPSC

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|---------------|----------|
| UNSPSC 6.01 | 30212010 |
| UNSPSC 7.0901 | 39121610 |
| UNSPSC 11 | 39121610 |
| UNSPSC 12.01 | 39121610 |
| UNSPSC 13.2 | 39121620 |

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approvals submitted

Approval details

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| EAC |
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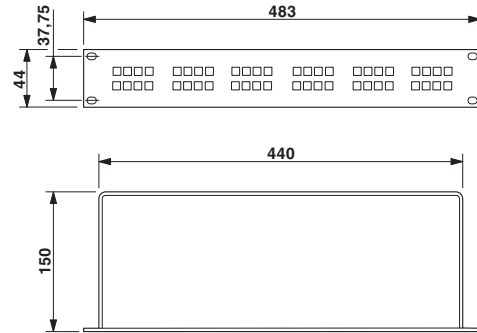
Drawings

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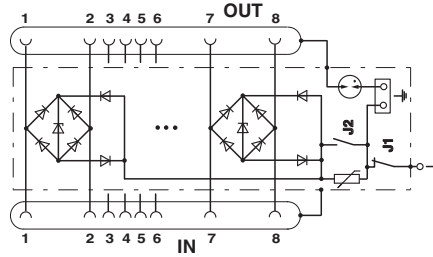
Product drawing



Dimensional drawing



Circuit diagram



Mouser Electronics

Authorized Distributor

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