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

2838791

https://www.phoenixcontact.com/pc/products/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

## Your advantages

- Space saving with low installed height (1RU)
- Easy network integration via RJ45 jacks
- Can be used in applications up to 1 Gbps with adapted protective circuit
- Easy to extend with the modular design

## Commercial data

| | |
|---|---|
| Item number | 2838791 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Product key | CL3111 |
| Catalog page | Page 167 (C-4-2019) |
| GTIN | 4017918959968 |
| Weight per piece (including packing) | 3,094 g |
| Weight per piece (excluding packing) | 3,091 g |
| Customs tariff number | 85363010 |
| Country of origin | DE |

## Technical data

### Product properties

| | |
|---|---|
| Product type | Surge protection for information technology |
| Product family | DATATRAB |
| IEC test classification | C1 |
| | C2 |
| | C3 |
| | B3 |
| Type | 19" rack patch module |
| Number of positions | 24 |
| Surge protection fault message | none |

Insulation characteristics

| | |
|---|---|
| Overvoltage category | II |
| Pollution degree | 2 |

### Connection data

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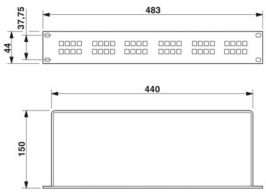
|---|---|
| Connection method | RJ45 |

### Dimensions

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

### Material specifications

| | |
|---|---|
| Color | Steel / stainless steel |
| | Copper |
| Housing material | Sheet steel |

### Mechanical properties

Mechanical data

| | |
|---|---|
| Open side panel | No |

### Protective circuit

| | |
|---|---|
| Direction of action | Line-Line & Line-Signal Ground/Shield & Signal Ground/Shield-Earth Ground |
| Maximum continuous voltage $U_C$ | 6 V DC |
| Rated current | 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) µs (line-line) | 350 A |
| Nominal discharge current $I_n$ (8/20) µs (line-ground) | 350 A |
| Nominal discharge current $I_n$ (8/20) µs (shield-ground) | 2.5 kA (with insulated housing) |
| Total discharge current $I_{total}$ (8/20) µs | 10 kA |
| Nominal pulse current Ian (10/1000) µs (line-line) | 100 A |
| Nominal pulse current Ian (10/1000) µs (line-earth) | 100 A |
| Output voltage limitation at 1 kV/µs (line-line) static | ≤ 20 V |
| Output voltage limitation at 1 kV/µs (line-earth) static | ≤ 30 V (J2 plugged) |
| | ≤ 170 V (J2 unplugged) |
| Output voltage limitation at 1 kV/µs(shield-ground) 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 $U_p$ (line-line) | ≤ 50 V (C1 - 500 V / 250 A) |
| Voltage protection level $U_p$ (line-earth) | ≤ 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 $t_A$ (line-line) | ≤ 1 ns |
| Response time $t_A$ (line-earth) | ≤ 1 ns |
| Response time tA (line-shield) | ≤ 100 ns |
| Input attenuation aE, sym. | typ. 1 dB (≤ 100 MHz) |
| Near-end crosstalk attenuation | typ. 36 dB (100 Ω system / 100 MHz) |
| Cut-off frequency fg (3 dB), sym. in 100 Ω system | > 100 MHz |
| Capacity (Core-Core) | typ. 20 pF |
| Capacity (Core-Earth) | typ. 1 pF |
| Surge protection fault message | none |
| Impulse durability (line-line) | C1 - 500 V / 250 A |
| Impulse durability (line-earth) | C1 - 500 V / 250 A |
| Impulse durability (shield-ground) | C2 - 4 kV/2 kA |

## Environmental and real-life conditions

### Ambient conditions

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

## Standards and regulations

Air clearances and creepage distances

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|---|---|
| Standards/regulations | DIN VDE 0110-1 / IEC 60664-1 |

Standards Information technology specification

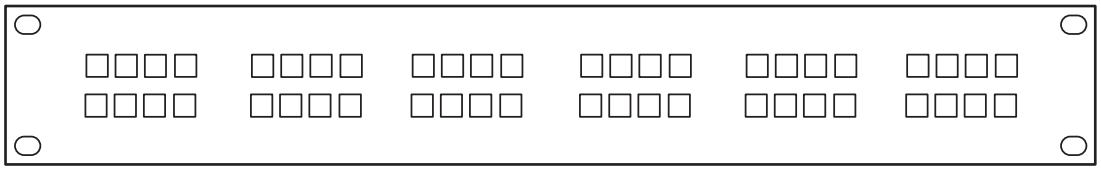
| | |
|---|---|
| Standards/regulations | IEC 61643-21 |
| | DIN EN 50173-1 |
| | IEC 61643-21 |
| | DIN EN 50173-1 |
| Standards/specifications | IEC 61643-21 |
| Note | 2000 |

## Mounting

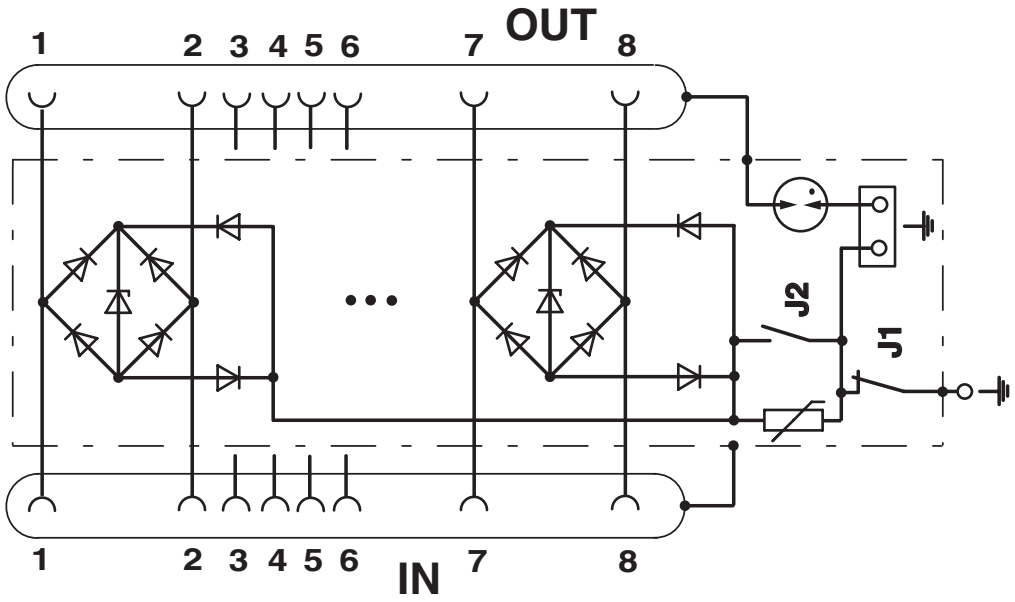
| | |
|---|---|
| Mounting type | 19" rack |

## Drawings

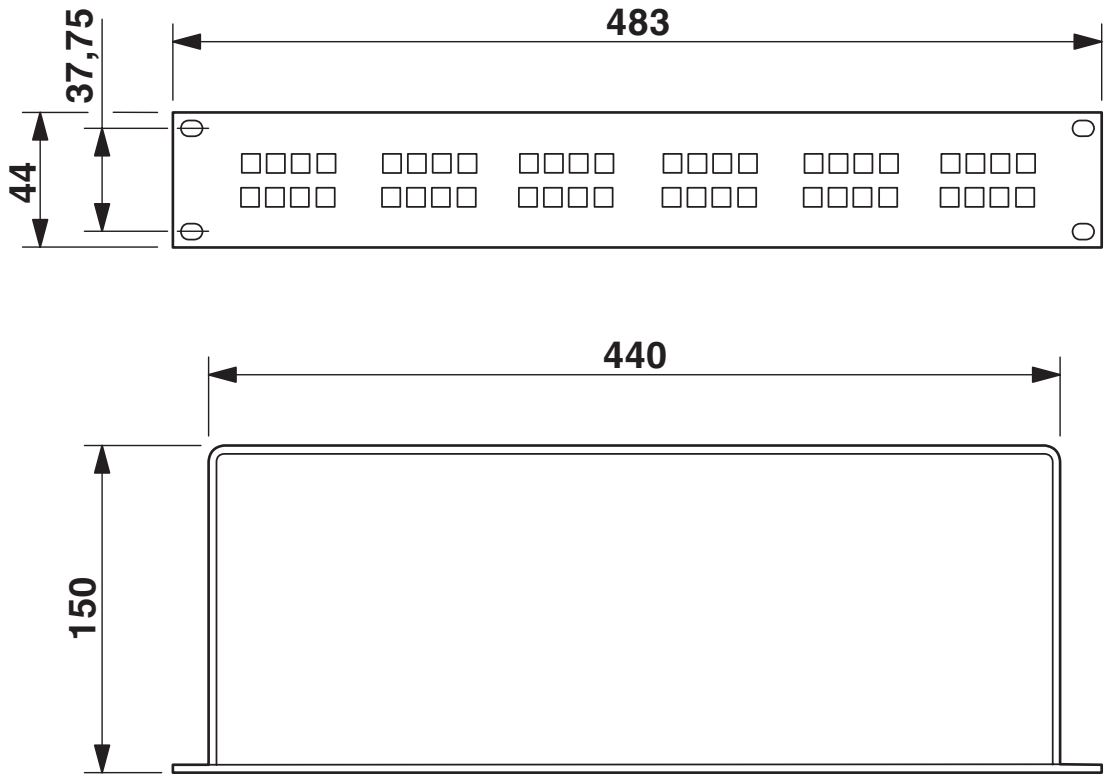
Product drawing



Circuit diagram



Dimensional drawing



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/2838791

**EAC**
Approval ID: RU C-DE.*09.B.00169

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-11.0 | 27130807 |
| ECLASS-13.0 | 27171503 |

### ETIM

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|---|---|
| ETIM 9.0 | EC001466 |

### UNSPSC

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|---|---|
| UNSPSC 21.0 | 39121600 |

## Environmental product compliance

EU RoHS

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|---|---|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c), 7(a), 7(c)-I |

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | 10a92cab-9157-4759-a7d8-d3eb19c6cf2b |




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