

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



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)
Sales key	CL24
Product key	CL3111
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

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## 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

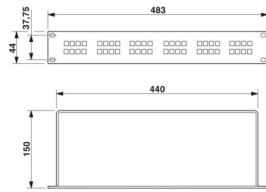
### Insulation characteristics

Overvoltage category	II
Pollution degree	2

### Connection data

Connection method	RJ45
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### Dimensions

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

### Material specifications

Color	Steel/stainless steel color
	copper color
Housing material	Sheet steel

### Mechanical properties

#### Mechanical data

Open side panel	No
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### Protective circuit

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Direction of action	Line-Line & Line-Signal Ground/Shield & Signal Ground/Shield-Earth Ground
Maximum continuous operating voltage $U_C$	6 V DC
Rated current	1.5 A (25 °C)
Operating effective current $I_C$ at $U_C$	$\leq 1$ mA
Protective conductor current $I_{PE}$	$\leq 1$ mA (jumper 2 unplugged)
Nominal discharge current $I_n$ (8/20) $\mu$ s (line-line)	350 A
Nominal discharge current $I_n$ (8/20) $\mu$ s (line-ground)	350 A
Nominal discharge current $I_n$ (8/20) $\mu$ s (shield-ground)	2.5 kA (with insulated housing)
Total discharge current $I_{Total}$ (8/20) $\mu$ s	10 kA
Nominal pulse current $I_{an}$ (10/1000) $\mu$ s (line-line)	100 A
Nominal pulse current $I_{an}$ (10/1000) $\mu$ s (line-earth)	100 A
Output voltage limitation at 1 kV/ $\mu$ s (line-line) static	$\leq 20$ V
Output voltage limitation at 1 kV/ $\mu$ s (line-earth) static	$\leq 30$ V (J2 plugged) $\leq 170$ V (J2 unplugged)
Output voltage limitation at 1 kV/ $\mu$ s (shield-ground) static	$\leq 700$ V (with insulated shield)
Residual voltage at $I_n$ (conductor-conductor)	$\leq 65$ V
Residual voltage at $I_n$ (conductor-ground)	$\leq 45$ V (J2 ON) $\leq 220$ V (J2 OFF)
Residual voltage at $I_n$ (shield-ground)	$\leq 700$ V
Voltage protection level $U_p$ (line-line)	$\leq 50$ V (C1 - 500 V / 250 A)
Voltage protection level $U_p$ (line-earth)	$\leq 40$ V (C1 - 500 V / 250 A (J2 ON)) $\leq 180$ V (C1 - 500 V / 250 A (J2 OFF))
Voltage protection level $U_p$ (shield-ground)	$\leq 800$ V (with insulated housing)
Response time $t_A$ (line-line)	$\leq 1$ ns
Response time $t_A$ (line-earth)	$\leq 1$ ns
Response time $t_A$ (line-shield)	$\leq 100$ ns
Input attenuation aE, sym.	typ. 1 dB ( $\leq 100$ MHz)
Near-end crosstalk attenuation	typ. 36 dB (100 $\Omega$ system / 100 MHz)
Cut-off frequency $f_g$ (3 dB), sym. in 100 $\Omega$ 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

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

## Standards and regulations

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## Standards Information technology specification

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

## Air clearances and creepage distances

Standards/regulations	DIN VDE 0110-1 / IEC 60664-1
Standards/specifications	IEC 61643-21
Note	2000

## Mounting

Mounting type	19" rack
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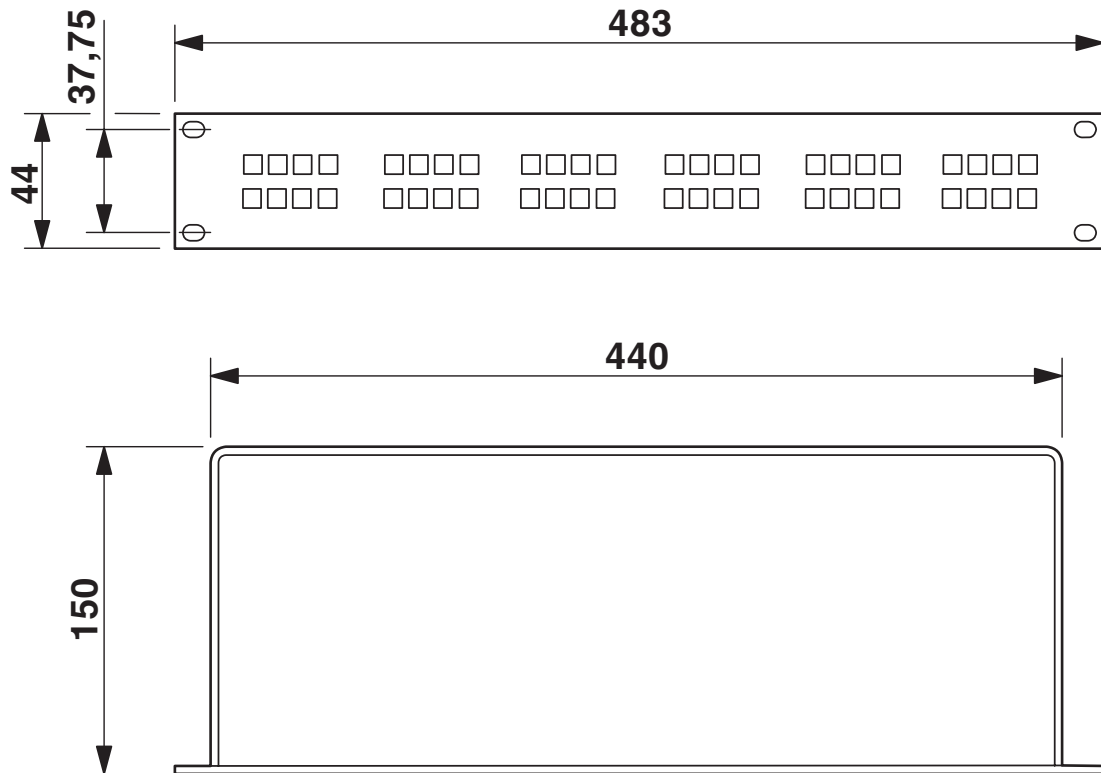


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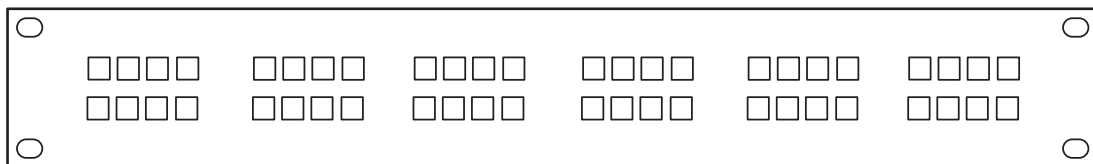
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## Drawings

Dimensional drawing



Product drawing



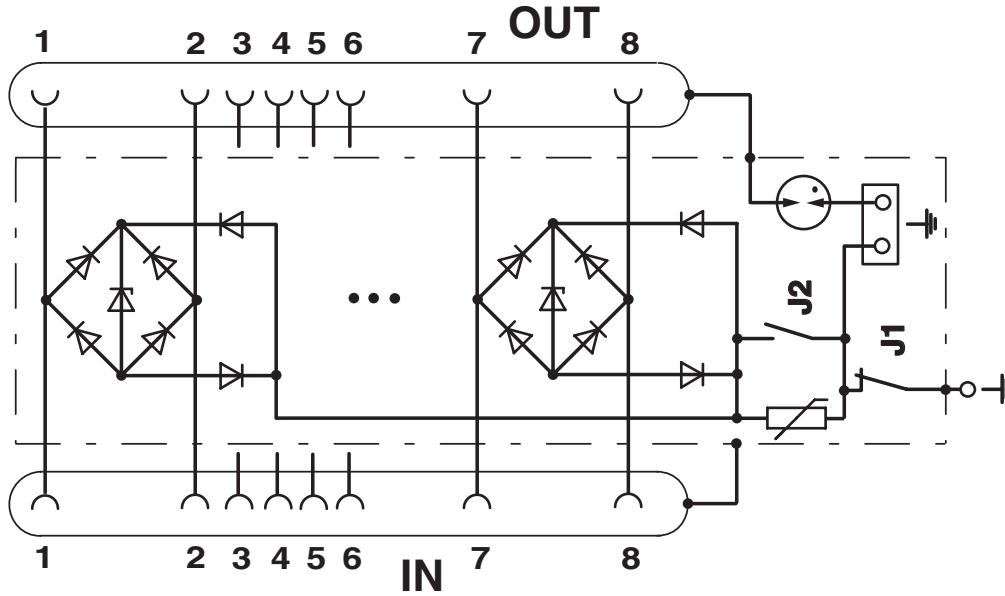
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Circuit diagram



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## Classifications

### ECLASS

ECLASS-13.0	27171503
ECLASS-15.0	27171503

### ETIM

ETIM 10.0	EC001466
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### UNSPSC

UNSPSC 21.0	39121600
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## Environmental product compliance

### EU RoHS

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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