

D-LAN-19"-4 - Surge protection device



2880176

<https://www.phoenixcontact.com/us/products/2880176>

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19" rack with 4 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	2880176
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	CL24
Product key	CL3111
GTIN	4017918962821
Weight per piece (including packing)	3,111.2 g
Weight per piece (excluding packing)	3,110.777 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	4
Surge protection fault message	none

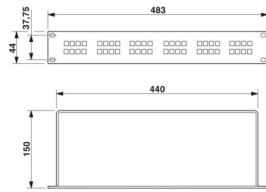
Insulation characteristics

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

Housing material	Sheet steel
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Mechanical properties

Mechanical data

Open side panel	No
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Protective circuit

Direction of action	Line-Line & Line-Signal Ground/Shield & Signal Ground/Shield-Earth Ground
Maximum continuous operating voltage U_C	6 V DC (Core - core)

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Maximum continuous voltage U_C (line-earth)	68 V DC (optional: ± 6 V DC)
Rated current	1.5 A (25 °C)
Operating effective current I_C at U_C	≤ 1 mA
Protective conductor current I_{PE}	≤ 1 mA (jumper 2 unplugged)
Nominal discharge current I_n (8/20) μ s (line-line)	350 A
Nominal discharge current I_n (8/20) μ s (line-ground)	350 A
Nominal discharge current I_n (8/20) μ s (shield-ground)	2.5 kA (with insulated housing)
Total discharge current I_{Total} (8/20) μ s	10 kA
Nominal pulse current I_{an} (10/1000) μ s (line-line)	100 A
Nominal pulse current I_{an} (10/1000) μ s (line-earth)	100 A
Output voltage limitation at 1 kV/ μ s (line-line) static	≤ 20 V
Output voltage limitation at 1 kV/ μ s (line-earth) static	≤ 30 V (J2 plugged) ≤ 170 V (J2 unplugged)
Output voltage limitation at 1 kV/ μ s (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 t_A (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 f_g (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

Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

Standards Information technology specification

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

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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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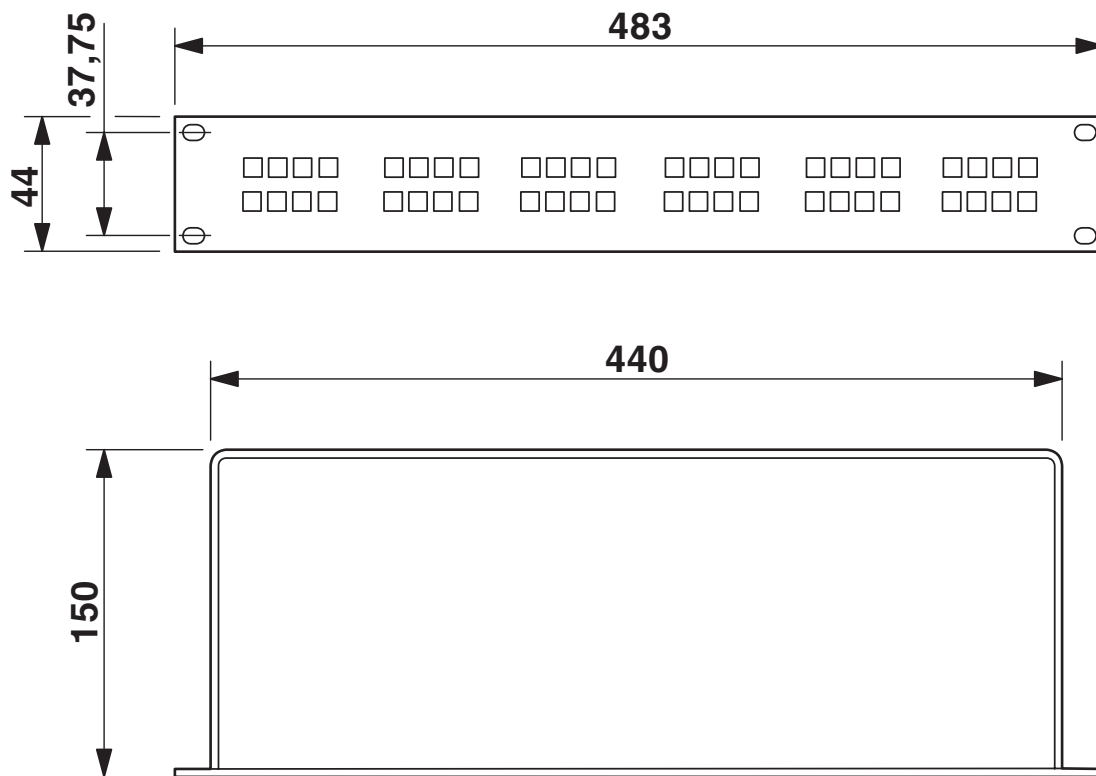
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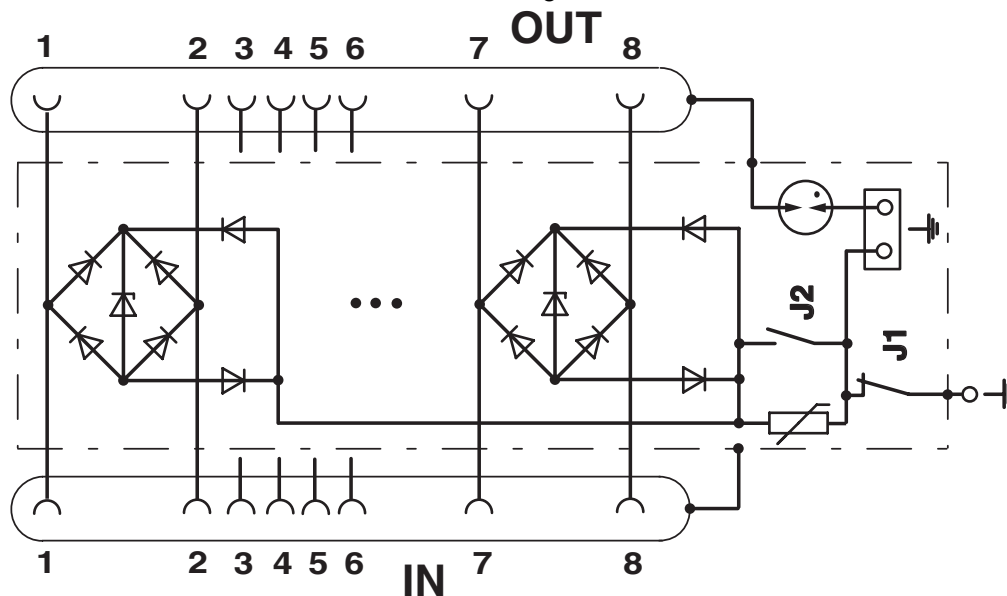
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Drawings

Dimensional drawing



Circuit diagram



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Classifications

UNSPSC

UNSPSC 21.0	39121620
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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)
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