

D-LAN-19"-8 - Surge protection device



2880163

<https://www.phoenixcontact.com/no/products/2880163>

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19" rack with 8 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	2880163
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	31BCL
Product key	CL3111
Catalog page	Page 167 (C-4-2019)
GTIN	4017918962814
Weight per piece (including packing)	3,120 g
Weight per piece (excluding packing)	3,119.577 g
Customs tariff number	85363010
Country of origin	DE

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Technical data

Product properties

IEC test classification	C1
	C2
	C3
	B3
Type	19" rack patch module
Product type	Surge protection for information technology
Product family	DATATRAB
Number of positions	8
Surge protection fault message	none

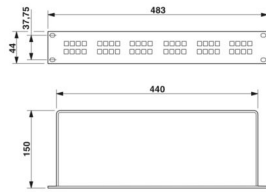
Insulation characteristics

Overvoltage category	II
Pollution degree	2

Connection data

Connection method	RJ45
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Dimensions

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

Material specifications

Color	Steel / stainless steel
Housing material	Sheet steel

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
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Maximum continuous voltage U_C (line-line)	6 V DC
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
Residual 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
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

Air clearances and creepage distances

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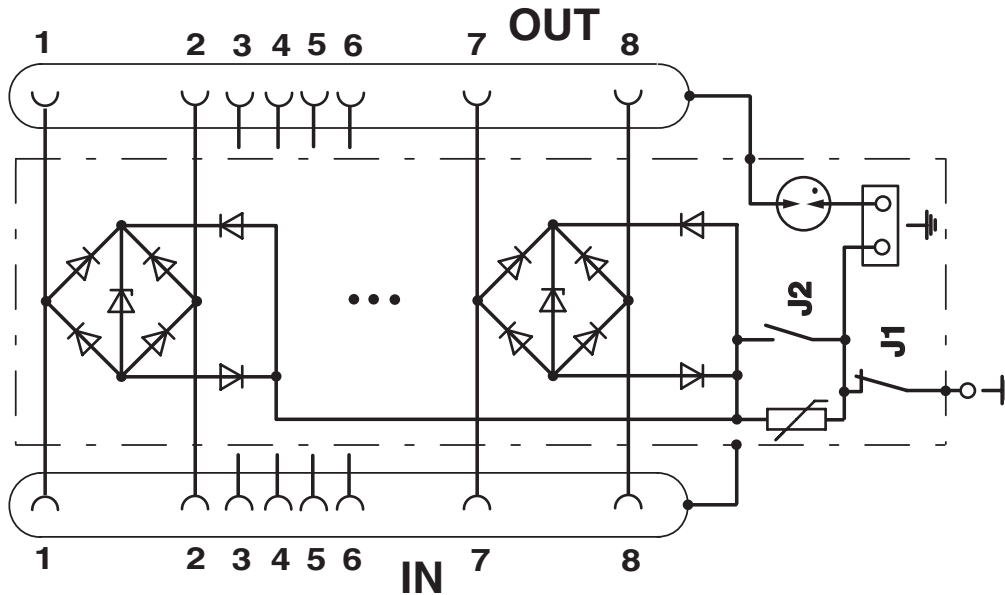
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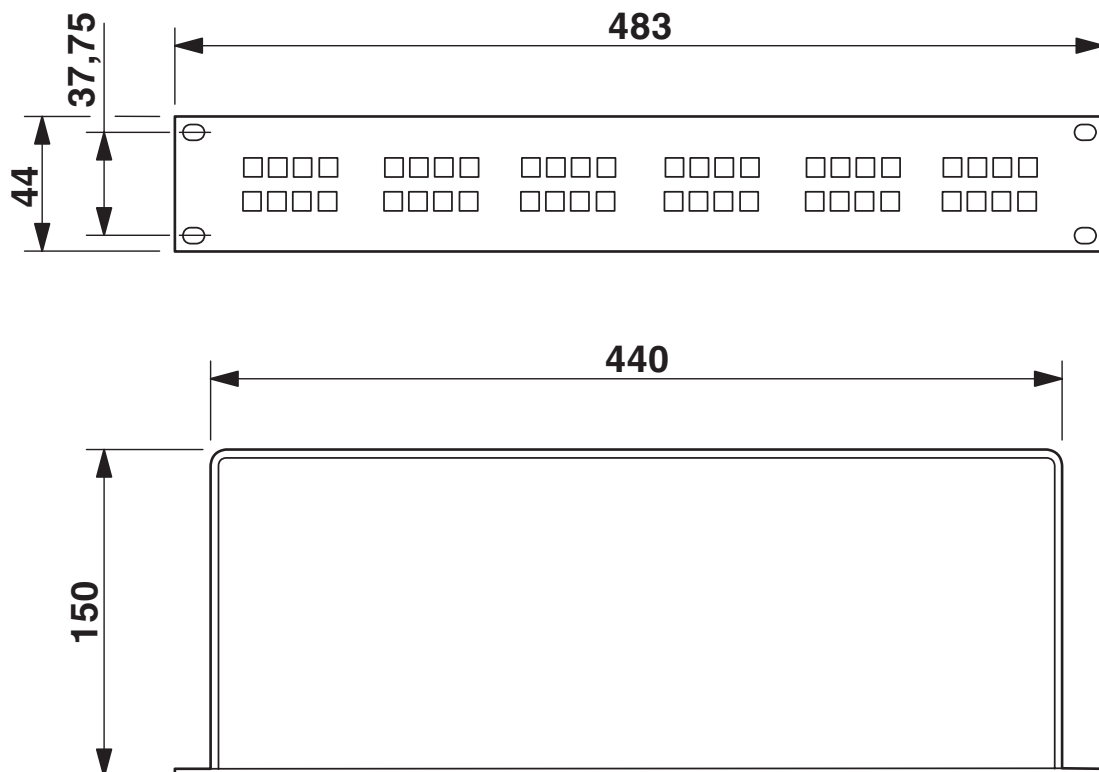
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Drawings

Circuit diagram



Dimensional drawing



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Approvals

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EAC

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

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Classifications

ECLASS

ECLASS-11.0	27130807
ECLASS-13.0	27171503

ETIM

ETIM 9.0	EC001466
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UNSPSC

UNSPSC 21.0	39121600
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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PHOENIX CONTACT AS

Strømsveien 344

N-1081 Oslo

+47 22 07 68 00

norge@phoenixcontact.com