

Surge protection device - D-LAN-19"-16



2880147

<https://www.phoenixcontact.com/us/products/2880147>

Please be informed that the data shown in this PDF document is generated from our Online Catalog. Please find the complete data in the user documentation. Our General Terms of Use for Downloads are valid.

19" rack with 16 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	2880147
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Sales Key	C08
Product Key	CL3111
Catalog Page	Page 167 (C-4-2019)
GTIN	4017918962791
Weight per Piece (including packing)	3,059.1 g
Weight per Piece (excluding packing)	2,882.677 g
Customs tariff number	85363010
Country of origin	DE

Surge protection device - D-LAN-19"-16



2880147

<https://www.phoenixcontact.com/us/products/2880147>

Technical Data

Product properties

IEC test classification	C1
	C2
	C3
	B3
Type	19" rack patch module
Product type	Surge protection for information technology
Number of positions	16
Surge protection fault message	none

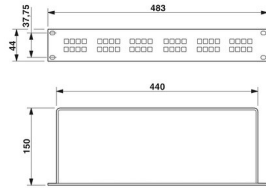
Insulation characteristics

Overvoltage category	II
Pollution degree	2

Connection data

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

Dimensions

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

Material specifications

Color	beige
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 (Core - core)

Surge protection device - D-LAN-19"-16



2880147

<https://www.phoenixcontact.com/us/products/2880147>

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 surge 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 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-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 (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-earth)	≤ 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-earth)	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

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

Surge protection device - D-LAN-19"-16



2880147

<https://www.phoenixcontact.com/us/products/2880147>

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

Mounting

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

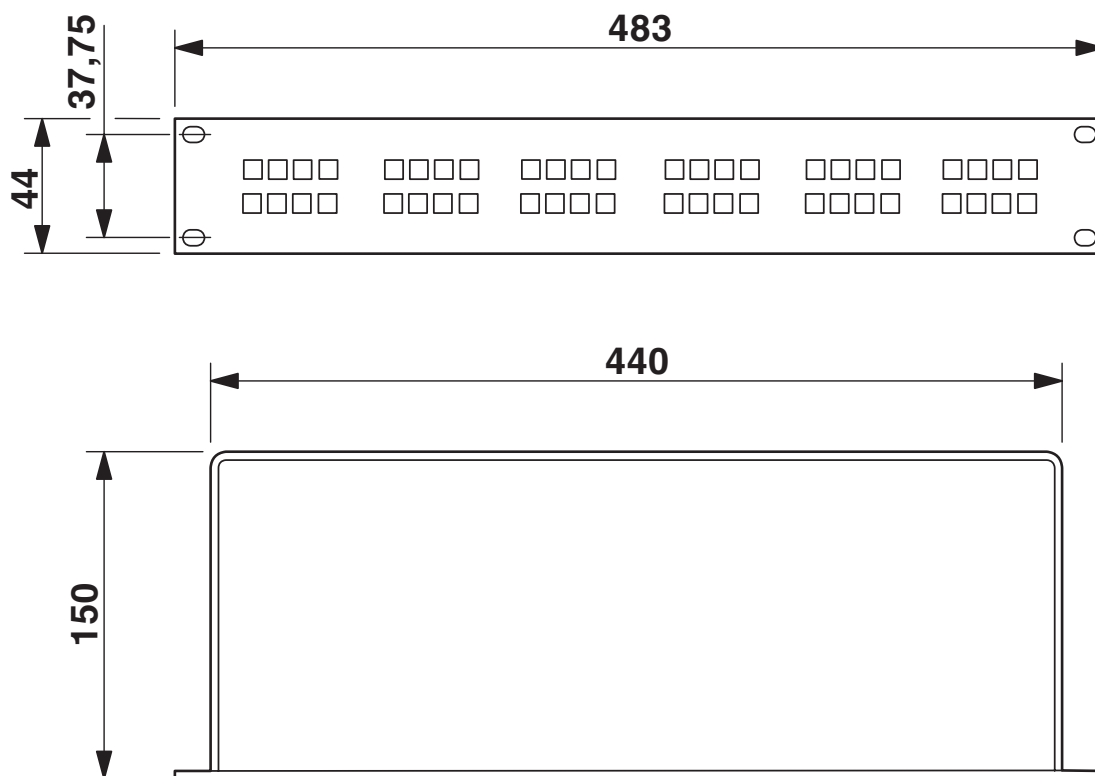
Surge protection device - D-LAN-19"-16

2880147

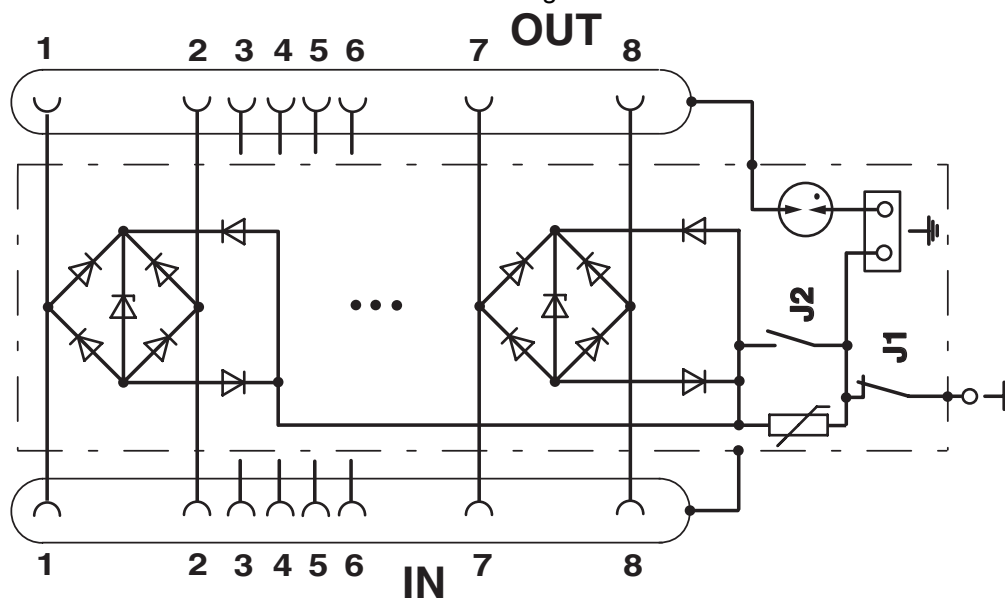
<https://www.phoenixcontact.com/us/products/2880147>

Drawings

Dimensional drawing



Circuit diagram



Surge protection device - D-LAN-19"-16

2880147

<https://www.phoenixcontact.com/us/products/2880147>



Approvals



EAC

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

Surge protection device - D-LAN-19"-16



2880147

<https://www.phoenixcontact.com/us/products/2880147>

Classifications

ECLASS

ECLASS-9.0	27130807
ECLASS-10.0.1	27130807
ECLASS-11.0	27130807

ETIM

ETIM 8.0	EC000943
----------	----------

UNSPSC

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

Surge protection device - D-LAN-19"-16

2880147

<https://www.phoenixcontact.com/us/products/2880147>



Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
------------	----------------

Surge protection device - D-LAN-19"-16

2880147

<https://www.phoenixcontact.com/us/products/2880147>

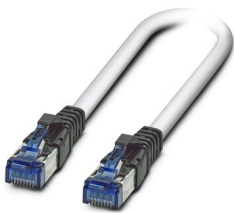


Accessories

Patch cable

Patch cable - FL CAT6 PATCH 0,5 - 2891288

<https://www.phoenixcontact.com/us/products/2891288>



Patch cable, CAT6, pre-assembled, 0.5 m

Patch cable

Patch cable - FL CAT6 PATCH 1,5 - 2891482

<https://www.phoenixcontact.com/us/products/2891482>



Patch cable, CAT6, pre-assembled, 1.5 m

Surge protection device - D-LAN-19"-16



2880147

<https://www.phoenixcontact.com/us/products/2880147>

Surge protection PCB

Surge protection PCB - D-LAN-19"-D-P - 2880192

<https://www.phoenixcontact.com/us/products/2880192>



Replacement PCB for ""D-LAN-19"" ... "" products. Assembly with four surge-protected ports for data interfaces in acc. with Cat.5/EN 50 17 3 (100Base-T) incl. RJ45 connection sockets.

Phoenix Contact 2022 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com