

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



2880163

<https://www.phoenixcontact.com/us/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	C08
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
Number of positions	8
Surge protection fault message	none

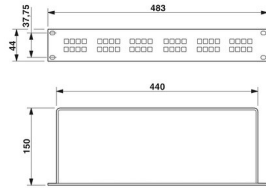
### Insulation characteristics

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	beige
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
Maximum continuous voltage $U_C$	6 V DC (Core - core)

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Maximum continuous voltage $U_C$ (line-earth)	68 V DC (optional: $\pm 6$ V DC)
Rated current	1.5 A (25 °C)
Operating effective current $I_C$ at $U_C$	$\leq 1$ mA
Residual current $I_{PE}$	$\leq 1$ mA (jumper 2 unplugged)
Nominal discharge current $I_n$ (8/20) $\mu$ s (line-line)	350 A
Nominal discharge surge current $I_n$ (8/20) $\mu$ s (Core-Earth)	350 A
Nominal discharge current $I_n$ (8/20) $\mu$ s (shield-earth)	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-earth) 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-earth)	$\leq 800$ 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-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
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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

## Mounting

Mounting type	19" rack
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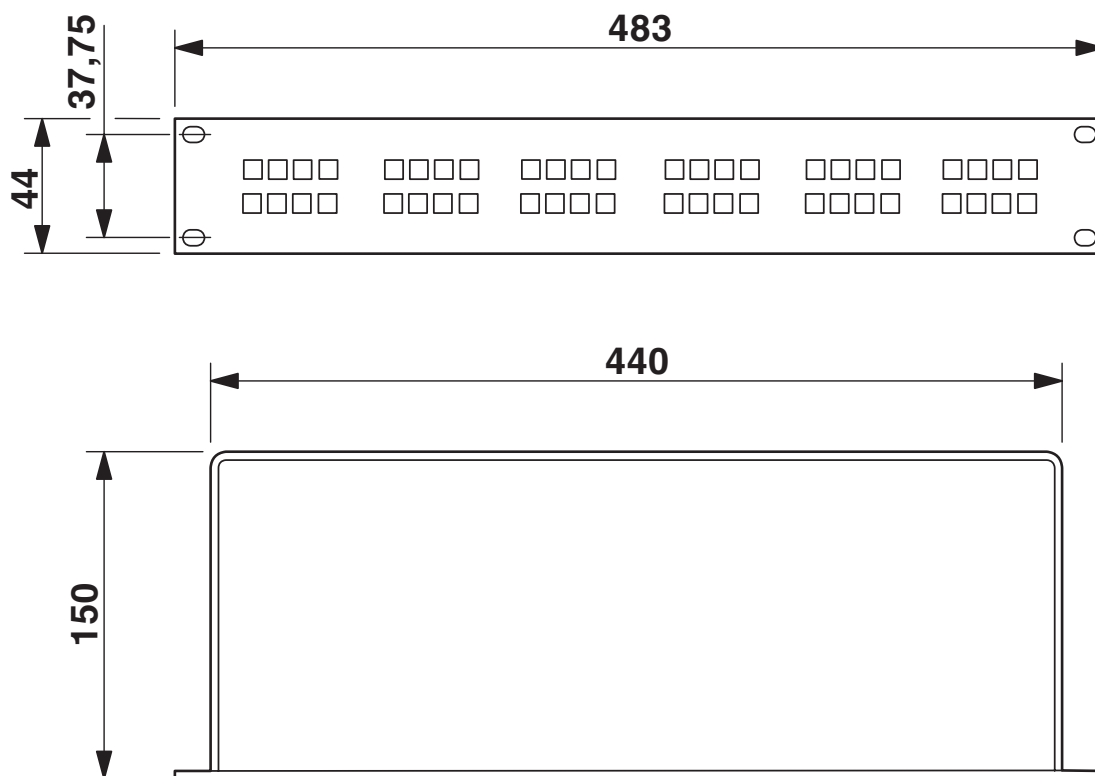
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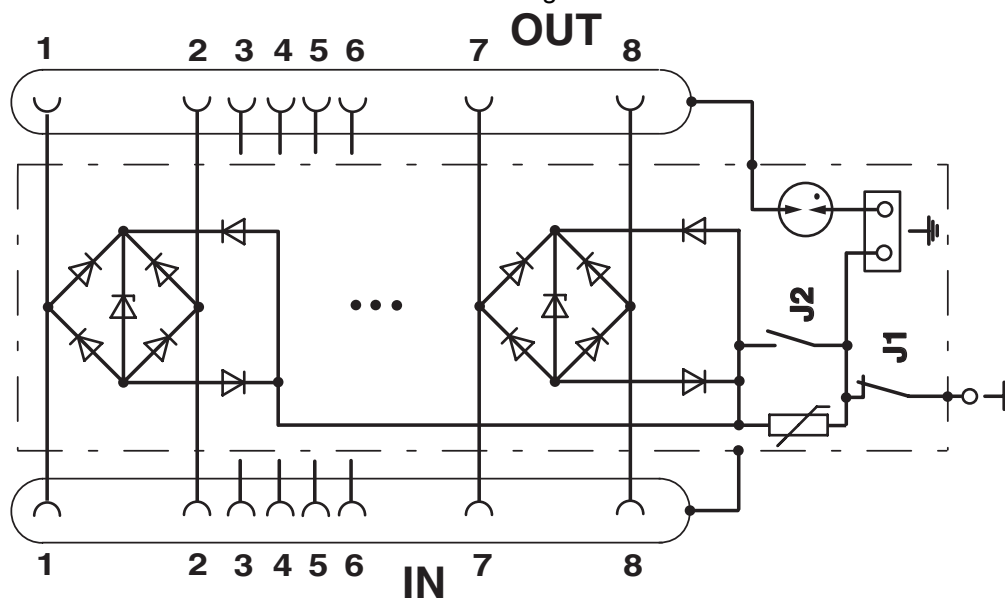


## Drawings

Dimensional drawing



Circuit diagram



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## Approvals



**EAC**

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

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## Classifications

### ECLASS

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

### ETIM

ETIM 8.0	EC000943
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### UNSPSC

UNSPSC 21.0	39121600
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## Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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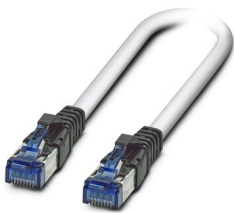


## Accessories

### 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

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### 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

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## 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.

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