

## Surge protection device - D-LAN-19"-16 - 2880147

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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

- ✓ 19" rack for installation in storey distributors
- ✓ Protection of all eight signal wires of the data cable
- ✓ Reliable transmission speeds up to 1 Gbps
- ✓ Up to 24 ports with RJ45 connection
- ✓ Indirect grounding via a gas-filled surge arrester in the housing
- ✓ Direct grounding via a connection on the housing



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 962791
GTIN	4017918962791

### Technical data

#### Dimensions

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

#### Ambient conditions

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

#### General

Housing material	Sheet steel
Color	beige

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## Technical data

### General

Standards for clearances and creepage distances	DIN VDE 0110-1
	IEC 60664-1
Overtoltage category	II
Degree of pollution	2
Mounting type	19" rack
Type	19" rack patch module
Number of positions	16
Direction of action	Line-Line & Line-Signal Ground/Shield & Signal Ground/Shield-Earth Ground

### Protective circuit

IEC test classification	C1
	C2
	C3
	B3
Maximum continuous voltage $U_C$	6 V DC (Core - core)
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 $U_C$	$\leq 1$ 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 current $I_n$ (8/20) $\mu$ s (line-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 $I_n$ (line-line)	$\leq 65$ V
Residual voltage at $I_n$ (line-earth)	$\leq 45$ V (J2 ON)
	$\leq 220$ V (J2 OFF)
Residual voltage at $I_n$ (shield-earth)	$\leq 700$ 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

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### Technical data

#### Protective circuit

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 fg (3 dB), sym. in 100 Ohm system	> 100 MHz
Capacity (line-line)	typ. 20 pF
Capacity (line-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

#### Connection data

Connection method	RJ45
Connection method IN	RJ45 socket
Connection method OUT	RJ45 socket
Connection technology	Network interfaces (e.g. Ethernet, Token Ring and CDDI/FDDI)

#### Standards and Regulations

Standards/regulations	IEC 61643-21
	DIN EN 50173-1
Standards/specifications	IEC 61643-21 2000

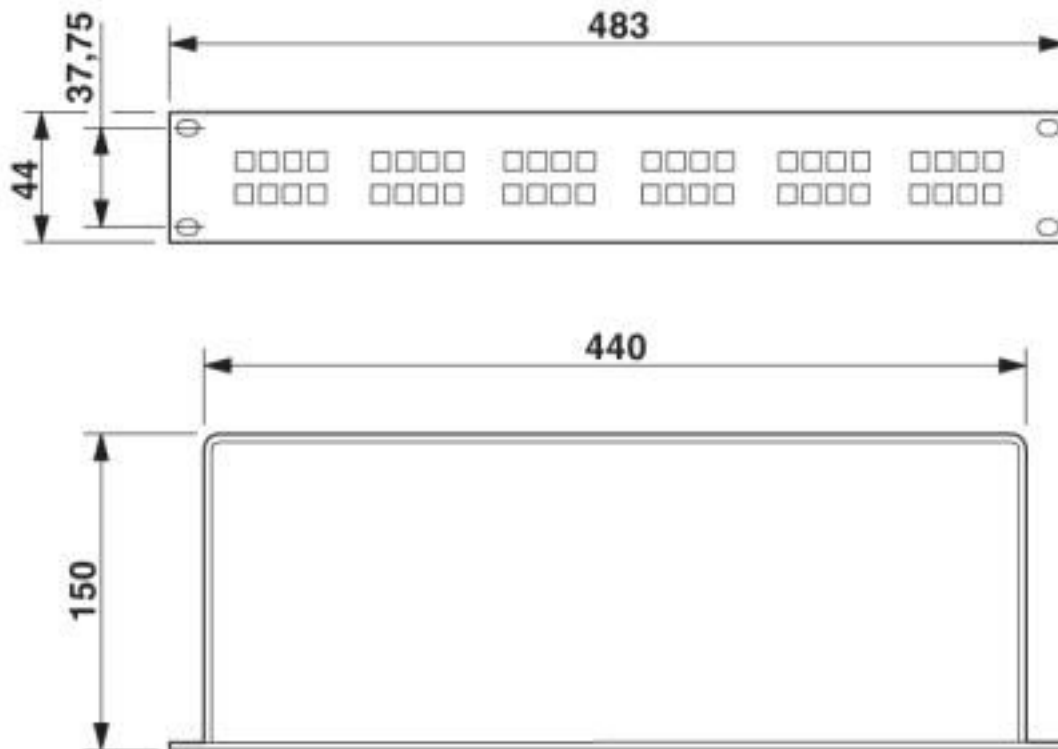
#### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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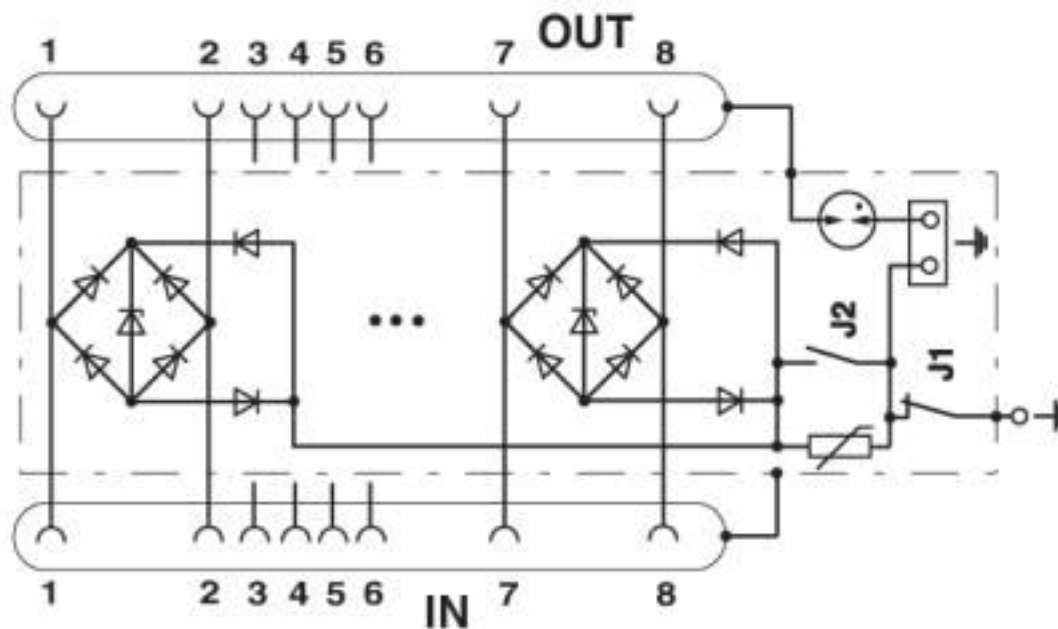
### Drawings

# Surge protection device - D-LAN-19"-16 - 2880147

Dimensional drawing



Circuit diagram



# Surge protection device - D-LAN-19"-16 - 2880147

## Classifications

### eCl@ss

eCl@ss 10.0.1	27130807
eCl@ss 4.0	27130800
eCl@ss 4.1	27130800
eCl@ss 5.0	27130800
eCl@ss 5.1	27130800
eCl@ss 6.0	27130800
eCl@ss 7.0	27130807
eCl@ss 8.0	27130807
eCl@ss 9.0	27130807

### ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943
ETIM 6.0	EC000943
ETIM 7.0	EC000943

### UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620
UNSPSC 18.0	39121620
UNSPSC 19.0	39121620
UNSPSC 20.0	39121620
UNSPSC 21.0	39121620

## Approvals

### Approvals

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Approvals

EAC

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Ex Approvals

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### Approval details

## Surge protection device - D-LAN-19"-16 - 2880147

### Approvals

EAC



RU C-  
DE.\*09.B.00169

### Accessories

#### Additional products

Patch cable - FL CAT6 PATCH 0,5 - 2891288



Patch cable, CAT6, pre-assembled, 0.5 m

Patch cable - FL CAT6 PATCH 1,5 - 2891482



Patch cable, CAT6, pre-assembled, 1.5 m

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