

# Surge protection device - D-LAN-19 -24 - 2838791

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19" rack with 24 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 959968
GTIN	4017918959968
Weight per Piece (excluding packing)	3,091.000 g
Custom tariff number	85363010
Country of origin	Germany
Note	Made to Order (non-returnable)

## 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
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## Technical data

### Ambient conditions

Degree of protection	IP20
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### General

Housing material	Sheet steel
Color	beige
Standards for clearances and creepage distances	DIN VDE 0110-1
	IEC 60664-1
Overvoltage category	II
Degree of pollution	2
Mounting type	19" rack
Type	19" rack patch module
Number of positions	24
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
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))

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## Technical data

### Protective circuit

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 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

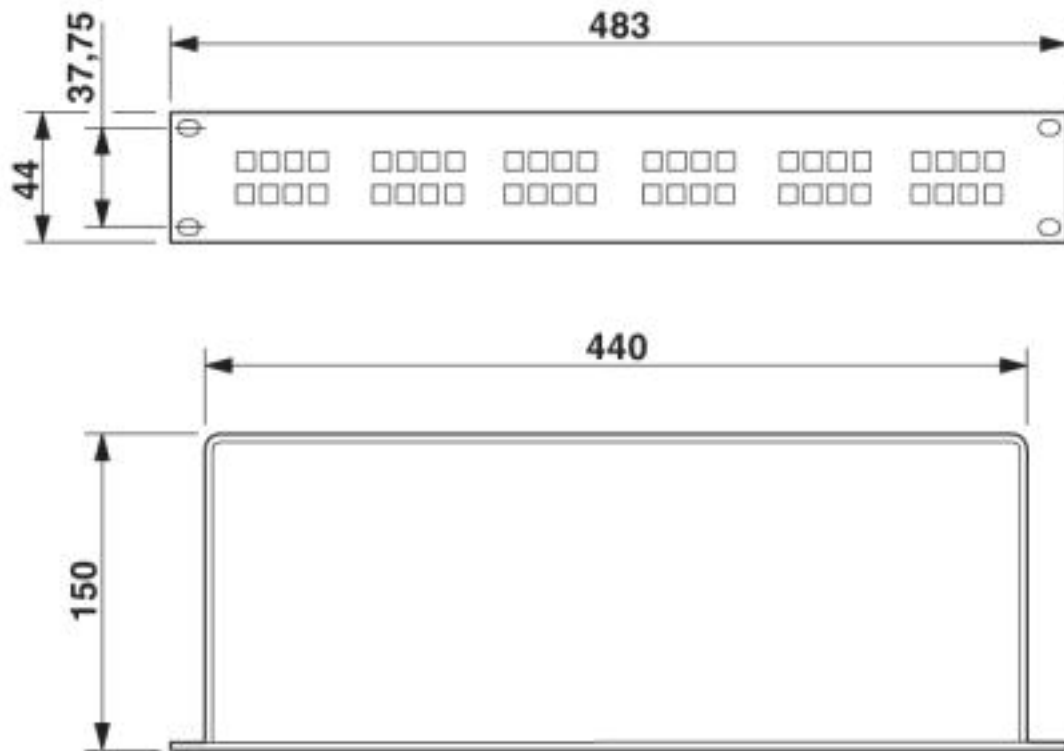
### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

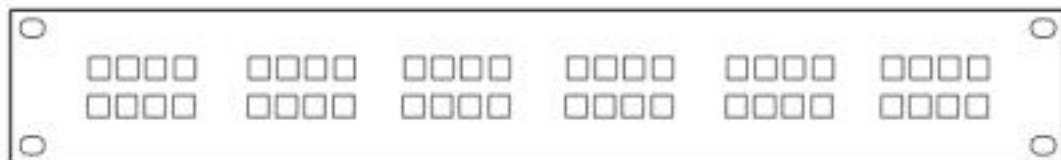
## Drawings

# Surge protection device - D-LAN-19 -24 - 2838791

Dimensional drawing

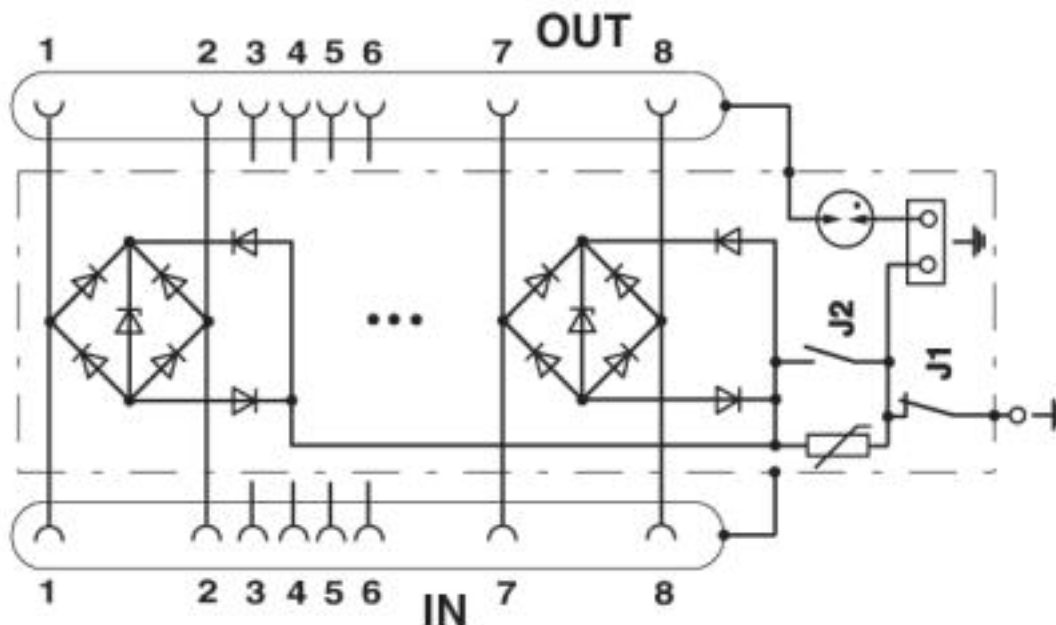


Product drawing



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Circuit diagram



## Classifications

eCl@ss

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

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## Classifications

### UNSPSC

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

EAC		RU C- DE.A*30.B01561
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## Accessories

### Additional products

Patch cable - FL CAT6 PATCH 0,5 - 2891288



Patch cable, CAT6, pre-assembled, 0.5 m

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Patch cable - FL CAT6 PATCH 1,5 - 2891482



Patch cable, CAT6, pre-assembled, 1.5 m

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