

## Surge protection device - D-LAN-19"-8 - 2880163

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's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)

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



### Why buy this product

- 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

**RoHS**

### Key Commercial Data

Packing unit	1 STK
GTIN	 4 017918 962814
GTIN	4017918962814
Weight per Piece (excluding packing)	3,120.000 g
Custom tariff number	85363010
Country of origin	Germany

### Technical data

#### Dimensions

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

# Surge protection device - D-LAN-19"-8 - 2880163

## Technical data

### Ambient conditions

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

### 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	8
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 $U_C$ (wire-ground)	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 (Core-Core)	350 A
Nominal discharge 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 (Core-Core)	100 A
Nominal pulse current $I_{an}$ (10/1000) $\mu$ s (Core-Earth)	100 A
Output voltage limitation at 1 kV/ $\mu$ s (core-core) static	$\leq 20$ V
Output voltage limitation at 1 kV/ $\mu$ s (core-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)

## Surge protection device - D-LAN-19"-8 - 2880163

### Technical data

#### Protective circuit

	≤ 220 V (J2 OFF)
Residual voltage at $I_n$ (shield-ground)	≤ 700 V
Voltage protection level $U_p$ (core-core)	≤ 50 V (C1 - 500 V / 250 A)
Voltage protection level $U_p$ (core-ground)	≤ 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 $t_A$ (core-core)	≤ 1 ns
Response time $t_A$ (core-earth)	≤ 1 ns
Response time $t_A$ (core-GND)	≤ 100 ns
Input attenuation $a_E$ , 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 Ohm system	> 100 MHz
Capacity (core-core)	typ. 20 pF
Capacity (core-earth)	typ. 1 pF
Surge protection fault message	none
Impulse durability (conductor-conductor)	C1 - 500 V / 250 A
Impulse durability (conductor-ground)	C1 - 500 V / 250 A
Impulse durability (shield-ground)	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)

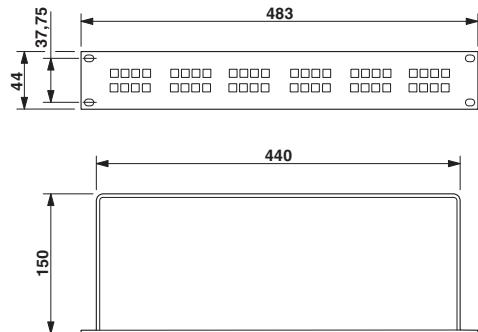
#### Standards and Regulations

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

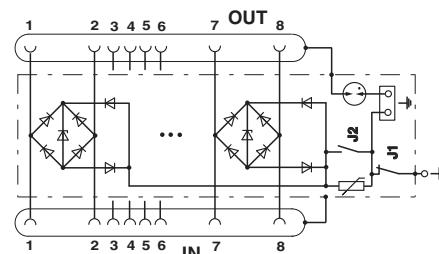
#### Drawings

## Surge protection device - D-LAN-19"-8 - 2880163

Dimensional drawing



Circuit diagram



### Classifications

eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130807
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

### UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

### Approvals

Approvals

## Surge protection device - D-LAN-19"-8 - 2880163

### Approvals

Approvals

EAC

---

Ex Approvals

---

### Approval details

EAC



RU C-  
DE.A\*30.B01561