

## Surge protection device - D-LAN-19"-12 - 2880150

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://download.phoenixcontact.com>)

19" rack with 12 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



The illustration shows the version with 24 ports

### Product Features

- 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 1
Weight per Piece (excluding packing)	3115.1 GRM
Custom tariff number	85363010
Country of origin	Germany

### 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

# Surge protection device - D-LAN-19"-12 - 2880150

## Technical data

### General

Housing material	Sheet steel
Color	beige
Standards for air and creepage distances	DIN VDE 0110-1
	IEC 60664-1
Surge voltage category	II
Pollution degree	2
Mounting type	19" rack
Design	19" rack patch module
Number of positions	12
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 $U_C$ (wire-wire)	6 V DC
Maximum continuous voltage $U_C$ (wire-ground)	68 V DC (optional: +/- 6 V DC)
Nominal current $I_N$	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 surge current (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)
	$\leq 220$ V (J2 OFF)
Residual voltage at $I_n$ , (shield-ground)	$\leq 700$ V
Voltage protection level $U_P$ (Core-Core)	$\leq 50$ V (C1, 500 V/250 A)

## Surge protection device - D-LAN-19"-12 - 2880150

### Technical data

#### Protective circuit

Voltage protection level $U_p$ (Core-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 $t_A$ (Core-Core)	$\leq 1$ ns
Response time $t_A$ (Core-Earth)	$\leq 1$ ns
Response time $t_A$ (Core-GND)	$\leq 100$ ns
Input attenuation $a_E$ , 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 (Core-Core)	typ. 20 pF
Capacity (Core-Earth)	typ. 1 pF
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	C1 (500 V / 250 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C1 (500 A/250 A)
Surge carrying capacity in acc. with IEC 61643-21 (Shield-Earth)	C2 (4 kV / 2 kA)

#### Connection data

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

#### Standards and Regulations

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

### 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

#### ETIM

ETIM 2.0	EC000943
----------	----------

# Surge protection device - D-LAN-19"-12 - 2880150

## Classifications

### ETIM

ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943

### UNSPSC

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

## Approvals

### Approvals

---

Approvals

GOST / GOST

---

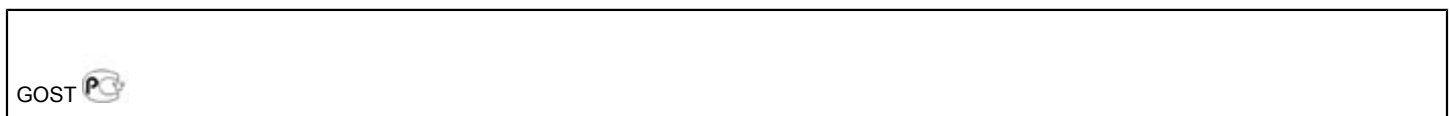
Ex Approvals

---

Approvals submitted

---

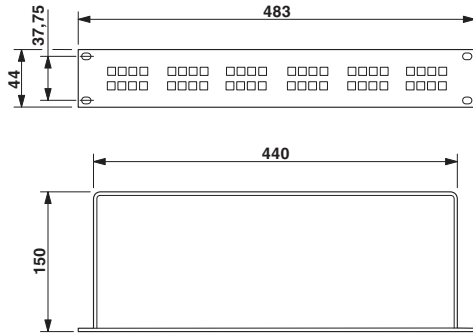
### Approval details



## Drawings

# Surge protection device - D-LAN-19"-12 - 2880150

Dimensioned drawing



Circuit diagram

