

## Surge protection device - D-LAN-19"-20 - 2880134

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19" rack with 20 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)	3063.0 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

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## 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	20
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)

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### 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
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## 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

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Approvals

GOST / GOST

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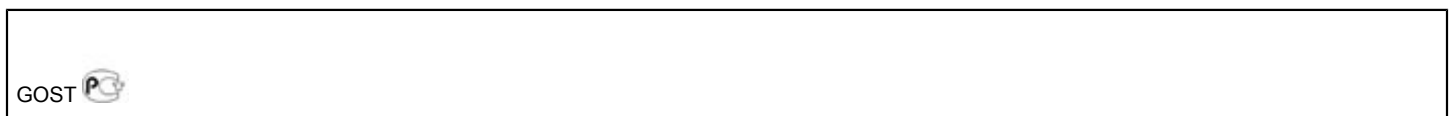
Ex Approvals

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Approvals submitted

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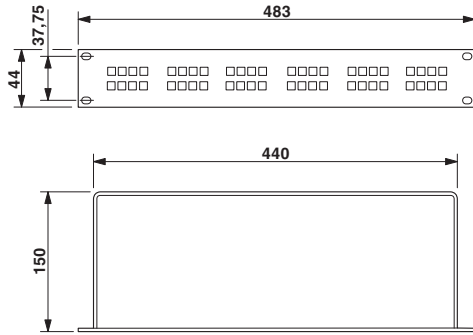
### Approval details



## Drawings

# Surge protection device - D-LAN-19"-20 - 2880134

Dimensioned drawing



Circuit diagram

