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PHŒNIX CONTACT

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

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)	2883.1 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

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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	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 UC (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) µs (Core-Core)	350 A
Nominal discharge current I_n (8/20) µs (Core-Earth)	350 A
Nominal discharge current I_n (8/20) µs (Shield-Earth)	2.5 kA (with insulated housing)
Total surge current (8/20) µs	10 kA
Nominal pulse current Ian (10/1000) µs (Core-Core)	100 A
Nominal pulse current Ian (10/1000) µs (Core-Earth)	100 A
Output voltage limitation at 1 kV/µs (Core-Core) static	$\leq$ 20 V
Output voltage limitation at 1 kV/µs (Core-Earth) static	$\leq$ 30 V (J2 plugged)
	$\leq$ 170 V (J2 unplugged)
Output voltage limitation at 1 kV/µs (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 In, (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 tA (Core-Core)	$\leq$ 1 ns
Response time tA (Core-Earth)	$\leq$ 1 ns
Response time tA (Core-GND)	$\leq$ 100 ns
Input attenuation aE, sym.	typ. 1 dB ($\leq$ 100 MHz)
Near-end crosstalk attenuation	typ. 36 dB (100 Ω system / 100 MHz)
Cut-off frequency fg (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

Approvals

GOST / GOST

Ex Approvals

Approvals submitted

Approval details

GOST

GOST

Drawings

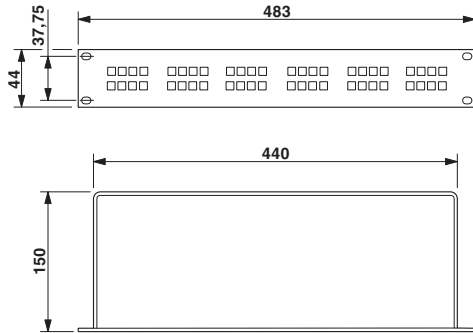# Surge protection device - D-LAN-19"-16 - 2880147

Dimensioned drawing

Circuit diagram