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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



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)	3094.0 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

General

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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	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 (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	≤ 1 mA
Residual current I_{PE}	≤ 1 mA (jumper 2 unplugged)
Nominal discharge current I_n (8/20) μ s (Core-Core)	350 A
Nominal discharge current I_n (8/20) μ s (Core-Earth)	350 A
Nominal discharge current I_n (8/20) μ s (Shield-Earth)	2.5 kA (with insulated housing)
Total surge current (8/20) μ s	10 kA
Nominal pulse current I_{an} (10/1000) μ s (Core-Core)	100 A
Nominal pulse current I_{an} (10/1000) μ s (Core-Earth)	100 A
Output voltage limitation at 1 kV/ μ s (Core-Core) static	≤ 20 V
Output voltage limitation at 1 kV/ μ s (Core-Earth) static	≤ 30 V (J2 plugged)
	≤ 170 V (J2 unplugged)
Output voltage limitation at 1 kV/ μ s (Shield-Earth) static	≤ 700 V (with insulated shield)
Residual voltage at I_n , (conductor-conductor)	≤ 65 V
Residual voltage at I_n , (conductor-ground)	≤ 45 V (J2 ON)
	≤ 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)

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Protective circuit

Voltage protection level U_p (Core-Earth)	≤ 40 V (C1, 500 V/250 A (J2 ON))
	≤ 180 V (C1, 500 V/250 A (J2 OFF))
Voltage protection level U_p (Shield-Earth)	≤ 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 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

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
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943

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Classifications

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

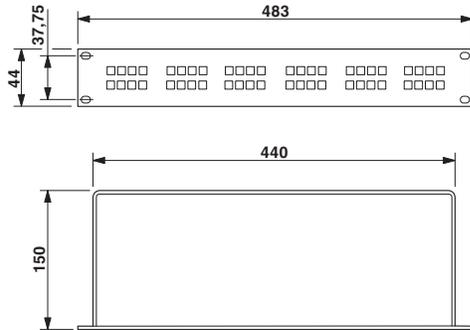
Approval details



Drawings

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Dimensioned drawing



Circuit diagram

