

Surge protection device - D-LAN-CAT.5E-U - 2859084

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DATATRAB adapter, protective adapter to be inserted into the data line for the protection of the LAN interfaces, without RJ45 cable. The adapter is equipped with a universal foot, for mounting on the DIN rail NS 35/7.5.



Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	130.2 GRM
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	94 mm
Width	25.4 mm
Depth	45.4 mm

Ambient conditions

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

General

Housing material	Aluminum, anodized
Color	black
Standards for air and creepage distances	DIN VDE 0110-1
	IEC 60664-1
Surge voltage category	II
Pollution degree	2
Mounting type	DIN rail/G-profile rail
Type	Attachment plug for DIN rail mounting

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Technical data

General

Direction of action	Line-Line & Line-Shield & Shield-Earth Ground
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Protective circuit

IEC test classification	C1
	C2
	C3
	B2
	B3
VDE requirement class	C1
	C2
	C3
	B2
	B3
Maximum continuous voltage U_C (wire-wire)	$\pm 7 \text{ V DC}$
Maximum continuous voltage U_C (wire-ground)	$\pm 7 \text{ V DC}$
Nominal current I_N	1.5 A (25 °C)
Operating effective current I_C at U_C	$\leq 100 \mu\text{A}$
Residual current I_{PE}	$\leq 100 \mu\text{A}$
Nominal discharge current I_n (8/20) μs (Core-Core)	350 A
Nominal discharge current I_n (8/20) μs (Core-Earth)	2.5 kA
Max. discharge current I_{max} (8/20) μs maximum (Core-Earth)	2.5 kA (in total)
Nominal pulse current I_{an} (10/700) μs (Core-Core)	160 A
Nominal pulse current I_{an} (10/700) μs (Core-Earth)	160 A
Output voltage limitation at 1 kV/ μs (Core-Core) spike	$\leq 22 \text{ V}$
Output voltage limitation at 1 kV/ μs (Core-Earth) spike	$\leq 80 \text{ V}$ (equipotential bonding lead: 1 m)
Output voltage limitation at 1 kV/ μs (Shield-Earth) spike	$\leq 700 \text{ V}$ (equipotential bonding lead: 1 m)
Residual voltage at I_n , (conductor-conductor)	$\leq 45 \text{ V}$
Residual voltage at I_n , (conductor-ground)	$\leq 45 \text{ V}$
Residual voltage at I_n , (shield-ground)	$\leq 700 \text{ V}$
Voltage protection level U_p (Core-Core)	$\leq 50 \text{ V}$ (C1, 500 V/250 A)
	$\leq 20 \text{ V}$ (B3, 2 kV/25 A)
Voltage protection level U_p (Core-Earth)	$\leq 65 \text{ V}$ (C1, 500 V/250 A - PA-Ltg: 1 m)
	$\leq 25 \text{ V}$ (B3, 2 kV/25 A - PA-Ltg: 1 m)
	$\leq 60 \text{ V}$ (C3, 7 kV/90 A - PA-Ltg: 1 m)
Voltage protection level U_p (Shield-Earth)	$\leq 850 \text{ V}$ (C2, 4 kV/2 kA - PA-Ltg: 1 m)
Response time t_A (Core-Core)	$\leq 500 \text{ ns}$
Response time t_A (Core-Earth)	$\leq 100 \text{ ns}$

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Protective circuit

Input attenuation aE, sym.	1 dB (up to 100 MHz, 100 Ω system)
Near-end crosstalk attenuation	36 dB (pair 3-6 against pair 4-5 in 100 Ω system / 100 MHz)
	40 dB (all other pair combinations in 100 Ω system/100 MHz)
Cut-off frequency f_g (3 dB), sym. in 100 Ohm system	$\leq$ 100 MHz
Capacity (Core-Core)	20 pF (typical)
Capacity (Core-Earth)	1 pF (typical)
Surge current resistance (conductor-conductor)	B2 - 4 kV/100 A
	B3 (2 kV/25 A)
	C1 - 500 V / 250 A
Surge current resistance (conductor-ground)	B2 - 4 kV/100 A
	C1 (500 V/250 A)
	C2 (4 kV / 2 kA)
	B3 (2 kV/25 A)

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)

Connection, equipotential bonding

Connection method	Cable connection
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Standards and Regulations

Standards/regulations	IEC 61643-21
	E VDE 0845-3-1
	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

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Classifications

ETIM

ETIM 2.0	EC000943
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

UL Listed / GOST / GOST

Ex Approvals

Approvals submitted

Approval details

UL Listed 

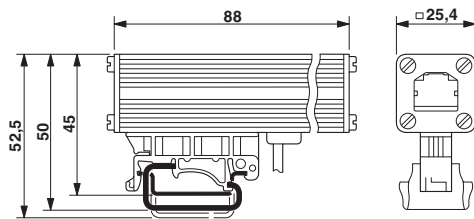
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Drawings

Dimensioned drawing



Circuit diagram

