

# 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
Minimum order quantity	1
Catalog page	Page 97 (TT-2005)
GTIN	 4 017918 920470
Custom tariff number	85363010
Country of origin	GERMANY

## Technical data

### General

Housing material	Aluminum, anodized
Color	black
Standards for air and creepage distances	DIN VDE 0110-1
Standards for air and creepage distances	IEC 60664-1
Surge voltage category	II
Pollution degree	2
Ambient temperature (operation)	-40 °C ... 80 °C
Mounting type	DIN rail/G-profile rail
Design	Attachment plug for DIN rail mounting
Degree of protection	IP20
Direction of action	Line-Line & Line-Shield & Shield-Earth Ground
Width	25.4 mm
Height	94 mm
Depth	45.4 mm

### Protective circuit

IEC category	C1
IEC category	C2

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## Technical data

### Protective circuit

IEC category	C3
IEC category	B2
IEC category	B3
VDE requirement class	C1
VDE requirement class	C2
VDE requirement class	C3
VDE requirement class	B2
VDE requirement class	B3
Maximum continuous voltage UC (wire-wire)	± 7 V DC
Maximum continuous voltage UC (wire-ground)	± 7 V DC
Nominal current I <sub>N</sub>	1.5 A (25 °C)
Operating effective current I <sub>C</sub> at UC	≤ 100 µA
Ground conductor current I <sub>PE</sub>	≤ 100 µA
Nominal discharge surge current I <sub>n</sub> (8/20) µs (Core-Core)	350 A
Nominal discharge surge current I <sub>n</sub> (8/20) µs (Core-Earth)	2.5 kA
Max. discharge surge current I <sub>max</sub> (8/20) µs maximum (Core-Earth)	2.5 kA (in total)
Nominal pulse current I <sub>an</sub> (10/700) µs (Core-Core)	160 A
Nominal pulse current I <sub>an</sub> (10/700) µs (Core-Earth)	160 A
Output voltage limitation at 1 kV/µs (Core-Core) spike	≤ 22 V
Output voltage limitation at 1 kV/µs (Core-Earth) spike	≤ 80 V (equipotential bonding lead: 1 m)
Output voltage limitation at 1 kV/µs (Shield-Earth) spike	≤ 700 V (equipotential bonding lead: 1 m)
Residual voltage at I <sub>n</sub> , (conductor-conductor)	≤ 45 V
Residual voltage at I <sub>n</sub> , (conductor-ground)	≤ 45 V
Residual voltage at I <sub>n</sub> , (shield-ground)	≤ 700 V
Protection level UP (Core-Core)	≤ 50 V (C1, 500 V/250 A)
Protection level UP (Core-Core)	≤ 20 V (B3, 2 kV/25 A)
Protection level UP (Core-Earth)	≤ 65 V (C1, 500 V/250 A - PA-Ltg: 1 m)
Protection level UP (Core-Earth)	≤ 25 V (B3, 2 kV/25 A - PA-Ltg: 1 m)
Protection level UP (Core-Earth)	≤ 60 V (C3, 7 kV/90 A - PA-Ltg: 1 m)
Protection level UP (Shield-Earth)	≤ 850 V (C2, 4 kV/2 kA - PA-Ltg: 1 m)
Response time t <sub>A</sub> (Core-Core)	≤ 500 ns
Response time t <sub>A</sub> (Core-Earth)	≤ 100 ns
Input attenuation a <sub>E</sub> , 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)
Near-end crosstalk attenuation	40 dB (all other pair combinations in 100 Ω system/100 MHz)
Cut-off frequency f <sub>g</sub> (3 dB), sym. in 100 Ohm system	≤ 100 MHz
Capacity (Core-Core)	20 pF (typical)
Capacity (Core-Earth)	1 pF (typical)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	B2 (4 kV / 100 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	B3 (2 kV/25 A)
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)	B2 (4 kV / 100 A)

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### Protective circuit

Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C1 (500 V/250 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C2 (4 kV / 2 kA)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	B3 (2 kV/25 A)

### Connection data

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

### Connection, equipotential bonding

Connection method	Cable connection
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### Connection, protective circuit

Standards/regulations	IEC 61643-21
Standards/regulations	E VDE 0845-3-1
Standards/regulations	DIN EN 50173-1

## Classifications

### eclass

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

### etim

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	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

Approvals

UL Listed / GOST / GOST

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Ex Approvals

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Approvals submitted

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## Approval details

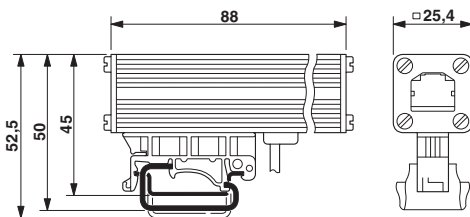
UL Listed

GOST

GOST

## Drawings

Dimensioned drawing



Circuit diagram

