

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

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



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 g
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 clearances and creepage distances	DIN VDE 0110-1
	IEC 60664-1
Overvoltage category	II
Degree of pollution	2
Mounting type	DIN rail: 35 mm
Type	Attachment plug for DIN rail mounting

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

## Technical data

### General

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

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

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

### Technical data

#### 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 fg (3 dB), sym. in 100 Ohm system	≤ 100 MHz
Capacity (Core-Core)	20 pF (typical)
Capacity (Core-Earth)	1 pF (typical)
Impulse durability (conductor-conductor)	B2 - 4 kV/100 A
	B3 (2 kV/25 A)
	C1 - 500 V / 250 A
Impulse durability (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
-------------------	------------------

#### 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
eCl@ss 9.0	27130807

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

## 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 / EAC / EAC

---


#### Ex Approvals

---

#### Approvals submitted

---

## Approval details

UL Listed 
---

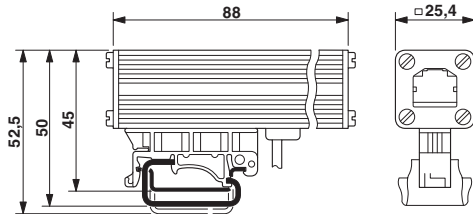
EAC
-----

EAC
-----

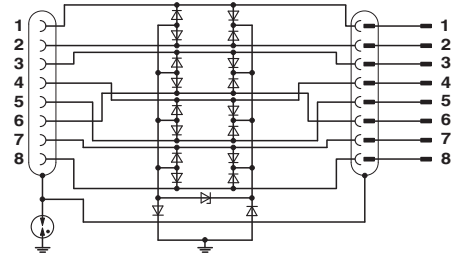
## Drawings

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

Dimensional drawing



Circuit diagram



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Phoenix Contact:](#)

[2859084](#)