

# DT-LAN-CAT.6A - Surge protection device



2908726

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Surge protection in accordance with Class E<sub>A</sub> (CAT6<sub>A</sub>), for Gigabit Ethernet (up to 10 Gbps), token ring, FDDI/CDDI, ISDN, DS1. Suitable for Power over Ethernet (PoE++/4PPoE) "Mode A" and "Mode B". RJ45 intermediate plug with separate grounding cable and ground connection snap-on foot for NS 35 DIN rails.

## Your advantages

- Can be installed in a control cabinet by removing the ground connection adapter
- Suitable for category 6 high-speed data networks

## Commercial data

Item number	2908726
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL24
Product key	CL3112
GTIN	4055626345963
Weight per piece (including packing)	314.857 g
Weight per piece (excluding packing)	314.1 g
Customs tariff number	85363010
Country of origin	DE

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## Technical data

### Product properties

Product type	Surge protection for information technology
Product family	DATATRAB
IEC test classification	B2
	C1
	C2
	C3
	D1
Type	Attachment plug for DIN rail mounting
Number of positions	8
Surge protection fault message	none
Wire pairs per module	4

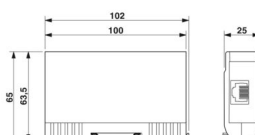
### Insulation characteristics

Overvoltage category	II
Pollution degree	2

### Connection data

Connection method	RJ45
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### Dimensions

Dimensional drawing	
Width	25 mm
Height	102 mm
Depth	63.5 mm

### Material specifications

Color	silver-colored
Housing material	Die-cast zinc

### Mechanical properties

#### Mechanical data

Open side panel	No
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### Protective circuit

Direction of action	Line-Line & Line-Ground/Shield
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Maximum continuous voltage $U_C$ (line-line)	$\leq 3.3$ V DC ( $\pm 60$ V DC/PoE+)
Rated current	$\leq 1.5$ A (25 °C)
Operating effective current $I_C$ at $U_C$	$\leq 1$ $\mu$ A
Protective conductor current $I_{PE}$	$\leq 400$ $\mu$ A
Nominal discharge current $I_n$ (8/20) $\mu$ s (line-line)	100 A
Nominal discharge current $I_n$ (8/20) $\mu$ s (line-ground)	2 kA (per signal pair)
Pulse discharge current $I_{imp}$ (10/350) $\mu$ s (line-earth)	1 kA
Total discharge current $I_{Total}$ (8/20) $\mu$ s	10 kA
Nominal pulse current $I_{an}$ (10/700) $\mu$ s (line-line)	$\leq 40$ A
Nominal pulse current $I_{an}$ (10/700) $\mu$ s (line-earth)	$\leq 160$ A
Output voltage limitation at 1 kV/ $\mu$ s (line-line) spike	$\leq 85$ V (PoE)
Output voltage limitation at 1 kV/ $\mu$ s (line-earth) spike	$\leq 700$ V
Output voltage limitation at 1 kV/ $\mu$ s (line-line) static	$\leq 9$ V
Output voltage limitation at 1 kV/ $\mu$ s (line-earth) static	$\leq 700$ V
Residual voltage at $I_n$ (conductor-conductor)	$\leq 15$ V
	$\leq 100$ V (PoE)
Voltage protection level $U_p$ (line-line)	$\leq 9$ V (B2 - 1 kV / 25 A)
	$\leq 100$ V (B2 - 1 kV / 25 A - PoE)
	$\leq 12$ V (C3 - 20 A)
Voltage protection level $U_p$ (line-earth)	$\leq 900$ V (B2 - 4 kV / 100 A)
	$\leq 700$ V (C2 - 4 kV / 2 kA)
	$\leq 1$ kV (C3 - 80 A)
Response time $t_A$ (line-line)	$\leq 1$ ns
Response time $t_A$ (line-earth)	$\leq 100$ ns
Input attenuation aE, sym.	$\leq 1$ dB (up to 100 MHz/direct measuring)
	$\leq 1$ dB (up to 250 MHz/direct measuring)
	$\leq 3$ dB (up to 500 MHz/direct measuring)
Near-end crosstalk attenuation	$\geq 35$ dB (250 MHz/100 $\Omega$ /link)
	$\geq 45$ dB (100 MHz / 100 $\Omega$ / Link)
	$\geq 27$ dB (500 MHz / 100 $\Omega$ / Link)
	$\geq 39$ dB (250 MHz/100 $\Omega$ /direct measuring)
Capacity (Core-Core)	typ. 12 pF (f= 1 MHz / VR= 0 V)
Capacity (Core-Earth)	typ. 2 pF (f= 1 MHz / VR= 0 V)
Surge protection fault message	none
Impulse durability (line-line)	B2 - 1 kV / 25 A
	C3 - 20 A
Impulse durability (line-earth)	B2 - 4 kV / 100 A
	C2 - 4 kV / 2 kA
	C3 - 80 A
	D1 - 1 kA

## Environmental and real-life conditions

### Ambient conditions

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Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Altitude	≤ 4000 m (amsl)
Permissible humidity (operation)	5 % ... 85 %

## Standards and regulations

Standards/specifications	IEC 61643-21
Note	2000 + corrigendum 2001 + A1:2008, modified + A2:2012
Standards/specifications	EN 61643-21
Note	2001 + A1:2009 + A2:2013
Standards/specifications	EN 50173-1
Note	2002
Standards/specifications	ISO/IEC 11801-Am.1
Note	2006

## Mounting

Mounting type	Connection-specific attachment plug and DIN rail, 35 mm
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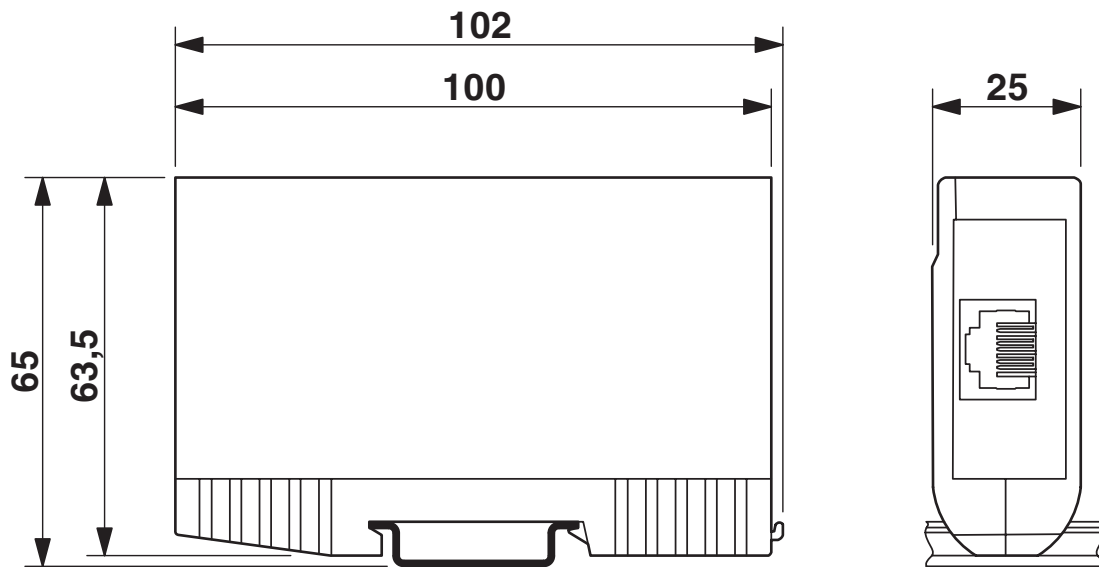


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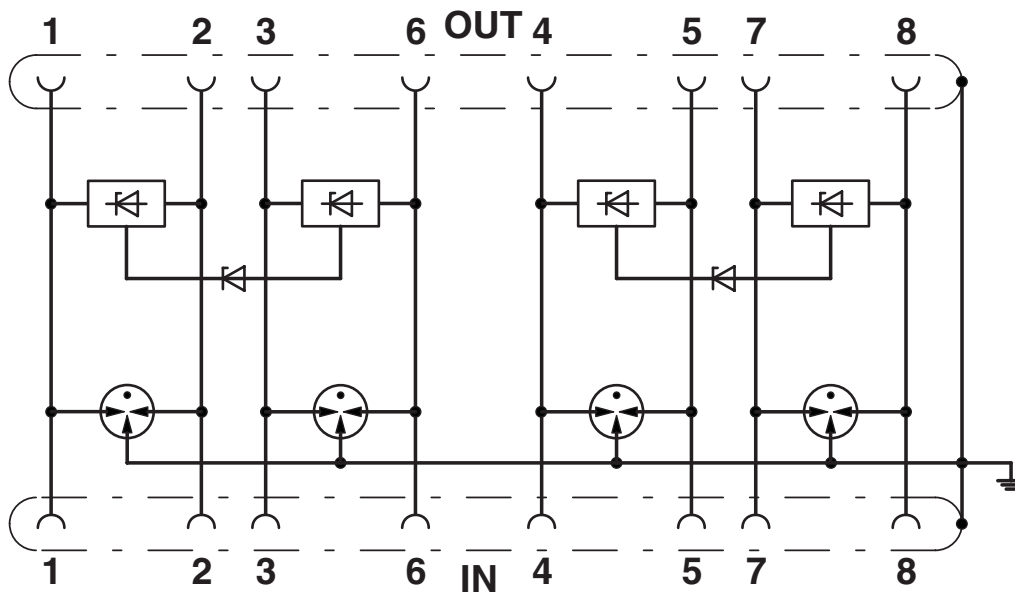
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## Drawings

Dimensional drawing



Circuit diagram



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## Classifications

### ECLASS

ECLASS-13.0	27171503
ECLASS-15.0	27171503

### ETIM

ETIM 10.0	EC001466
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### UNSPSC

UNSPSC 21.0	39121600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(a)-I, 7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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