

## Surge protection device - DT-LAN-CAT.6A - 2908726

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>)




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, and DS1. Suitable for Power over Ethernet (PoE+) "Mode A" and "Mode B". RJ45 attachment plug with separate grounding cable and ground connection snap-on foot for NS 35 DIN rails.

### Why buy this product

- ✓ Reliable transmission speeds up to 10 Gbps
- ✓ Protective adapter for eight signal paths via RJ45 connector
- ✓ Suitable for category 6 high-speed data networks
- ✓ Can be installed in a control cabinet by removing the ground connection adapter



### Key Commercial Data

Packing unit	1 STK
GTIN	 4 055626 345963
GTIN	4055626345963

### Technical data

#### Dimensions

Height	102 mm
Width	25 mm
Depth	63.5 mm

#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Degree of protection	IP20

#### General

Housing material	Zinc die-cast
Color	silver/black

# Surge protection device - DT-LAN-CAT.6A - 2908726

## Technical data

### General

Mounting type	Connection-specific attachment plug and DIN rail, 35 mm
Type	Attachment plug for DIN rail mounting
Number of positions	8
Direction of action	Line-Line & Line-Ground/Shield

### Protective circuit

IEC test classification	B2
	C1
	C2
	C3
	D1
Maximum continuous voltage $U_C$ (wire-wire)	$\leq 3.3$ 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
Residual 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-earth)	2 kA (per signal pair)
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 $I_n$ (line-line)	$\leq 15$ 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)
Voltage protection level $U_p$ (line-earth)	$\leq 900$ V (B2 - 4 kV / 100 A)
	$\leq 700$ V (C2 - 4 kV / 2 kA)
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 (line-line)	typ. 12 pF (f= 1 MHz / VR= 0 V)
Capacity (line-earth)	typ. 2 pF (f= 1 MHz / VR= 0 V)

# Surge protection device - DT-LAN-CAT.6A - 2908726

## Technical data

### Protective circuit

Surge protection fault message	none
Impulse durability (line-line)	B2 - 1 kV / 25 A
Impulse durability (line-earth)	B2 - 4 kV/100 A
	C2 - 4 kV/2 kA
	D1 - 1 kA

### Connection data

Connection method	RJ45
-------------------	------

### Connection, equipotential bonding

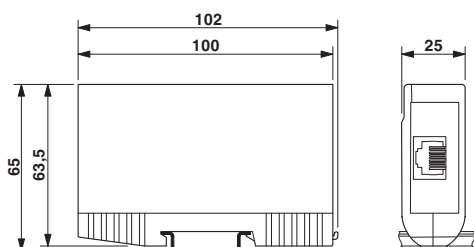
Connection method	DIN rail NS35
-------------------	---------------

### Standards and Regulations

Standards/specifications	IEC 61643-21 2002
	EN 50173-1 2002
	ISO/IEC 11801-Am.1 2006

## Drawings

Dimensional drawing



Circuit diagram

