

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

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Surge protection in accordance with Class E_A (CAT6_A), 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.

Your advantages

- ✓ 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 pc
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
Permissible humidity (operation)	5 % ... 85 %
Degree of protection	IP20

General

Housing material	Zinc die-cast
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Technical data

General

Color	silver/black
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)	$\leq 3.3 \text{ V DC } (\pm 60 \text{ V DC/PoE+})$
Rated current	$\leq 1.5 \text{ A } (25^\circ \text{C})$
Operating effective current I_C at U_C	$\leq 1 \mu\text{A}$
Residual current I_{PE}	$\leq 400 \mu\text{A}$
Nominal discharge current I_n (8/20) μs (line-line)	100 A
Nominal discharge current I_n (8/20) μs (line-earth)	2 kA (per signal pair)
Total discharge current I_{total} (8/20) μs	10 kA
Nominal pulse current I_{an} (10/700) μs (line-line)	$\leq 40 \text{ A}$
Nominal pulse current I_{an} (10/700) μs (line-earth)	$\leq 160 \text{ A}$
Output voltage limitation at 1 kV/ μs (line-line) spike	$\leq 85 \text{ V (PoE)}$
Output voltage limitation at 1 kV/ μs (line-earth) spike	$\leq 700 \text{ V}$
Output voltage limitation at 1 kV/ μs (line-line) static	$\leq 9 \text{ V}$
Output voltage limitation at 1 kV/ μs (line-earth) static	$\leq 700 \text{ V}$
Residual voltage at I_n (line-line)	$\leq 15 \text{ V}$
	$\leq 100 \text{ V (PoE)}$
Voltage protection level U_p (line-line)	$\leq 9 \text{ V (B2 - 1 kV / 25 A)}$
	$\leq 100 \text{ V (B2 - 1 kV / 25 A - PoE)}$
Voltage protection level U_p (line-earth)	$\leq 900 \text{ V (B2 - 4 kV / 100 A)}$
	$\leq 700 \text{ V (C2 - 4 kV / 2 kA)}$
Response time t_A (line-line)	$\leq 1 \text{ ns}$
Response time t_A (line-earth)	$\leq 100 \text{ ns}$
Input attenuation aE, sym.	$\leq 1 \text{ dB (up to 100 MHz/direct measuring)}$
	$\leq 1 \text{ dB (up to 250 MHz/direct measuring)}$
	$\leq 3 \text{ dB (up to 500 MHz/direct measuring)}$
Near-end crosstalk attenuation	$\geq 35 \text{ dB (250 MHz/100 } \Omega/\text{link)}$
	$\geq 45 \text{ dB (100 MHz / 100 } \Omega \text{ / Link)}$
	$\geq 27 \text{ dB (500 MHz / 100 } \Omega \text{ / Link)}$
	$\geq 39 \text{ dB (250 MHz/100 } \Omega/\text{direct measuring)}$
Capacity (line-line)	typ. 12 pF ($f = 1 \text{ MHz / VR} = 0 \text{ V}$)

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Technical data

Protective circuit

Capacity (line-earth)	typ. 2 pF (f= 1 MHz / VR= 0 V)
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
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Connection, equipotential bonding

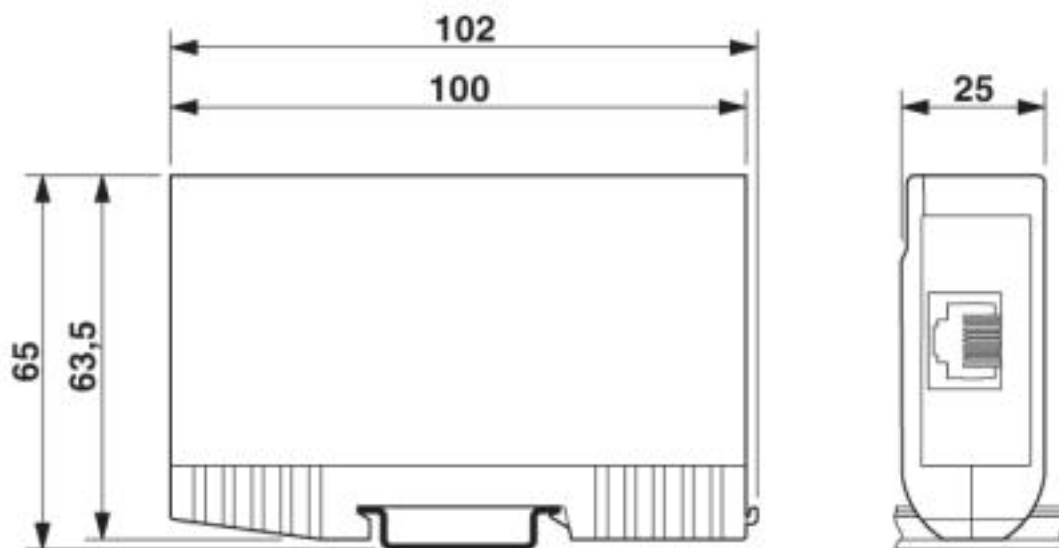
Connection method	DIN rail NS35
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Standards and Regulations

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

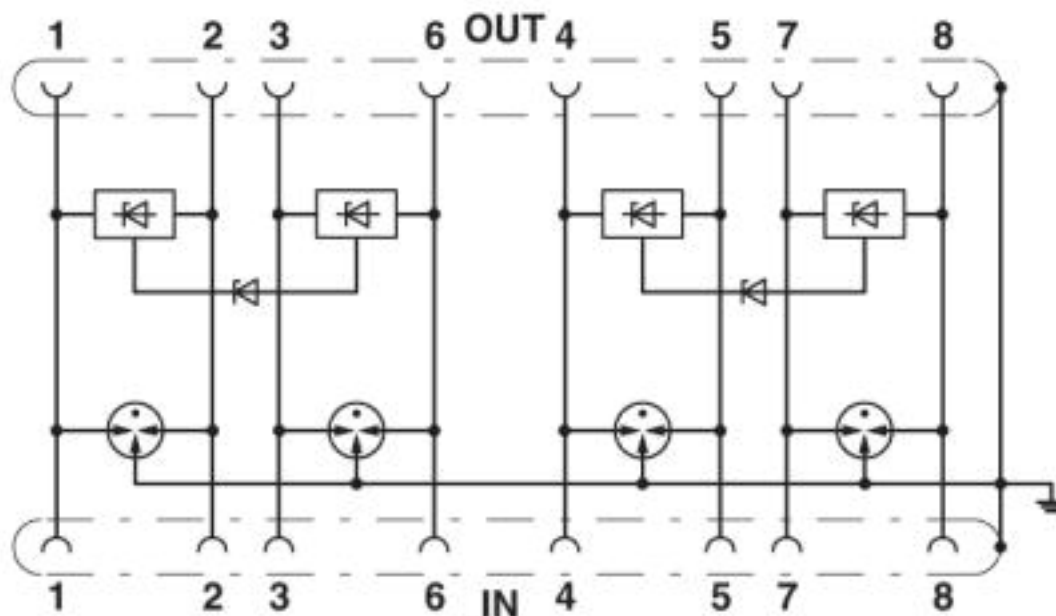
Drawings

Dimensional drawing



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Circuit diagram



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	27130800
eCl@ss 7.0	27130807
eCl@ss 8.0	27130807
eCl@ss 9.0	27130807

ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943
ETIM 6.0	EC000943

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

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Classifications

UNSPSC

UNSPSC 19.0	39121620
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Accessories

Accessories

Patch cable

Patch cable - FL CAT6 PATCH 0,5 - 2891288



Patch cable, CAT6, pre-assembled, 0.5 m

Patch cable - FL CAT6 PATCH 1,0 - 2891385



Patch cable, CAT6, pre-assembled, 1.0 m

Patch cable - FL CAT6 PATCH 2,0 - 2891589



Patch cable, CAT6, pre-assembled, 2.0 m

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PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>