

Surge protection device - DT-LAN-CAT.6+ - 2881007

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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.

Product Features

- 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
Weight per Piece (excluding packing)	318.4 g
Custom tariff number	85363010
Country of origin	Germany

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

General

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Technical data

General

Housing material	Zinc die-cast
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
VDE requirement class	B2
	C1
	C2
	C3
	D1
Maximum continuous voltage U_C	≤ 3.3 V DC
Maximum continuous voltage U_C (wire-wire)	≤ 3.3 V DC (± 60 V DC/PoE+)
Maximum continuous voltage U_C (wire-ground)	≤ 180 V DC
Nominal current I_N	≤ 1.5 A (25 °C)
Operating effective current I_C at U_C	≤ 1 μ A
Residual current I_{PE}	≤ 400 μ A
Nominal discharge current I_n (8/20) μ s (Core-Core)	100 A
Nominal discharge current I_n (8/20) μ s (Core-Earth)	2 kA (per signal pair)
Total surge current (8/20) μ s	10 kA
Nominal pulse current I_{an} (10/700) μ s (Core-Core)	≤ 40 A
Nominal pulse current I_{an} (10/700) μ s (Core-Earth)	≤ 160 A
Output voltage limitation at 1 kV/ μ s (Core-Core) spike	≤ 85 V (PoE)
Output voltage limitation at 1 kV/ μ s (Core-Earth) spike	≤ 700 V
Output voltage limitation at 1 kV/ μ s (Core-Core) static	≤ 9 V
Output voltage limitation at 1 kV/ μ s (Core-Earth) static	≤ 700 V
Residual voltage at I_n (conductor-conductor)	≤ 15 V
	≤ 100 V (PoE)
Voltage protection level U_p (core-core)	≤ 9 V (B2 - 1 kV/25 A)
	≤ 100 V (B2 - 1 kV/25 A - PoE)

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Protective circuit

	≤ 15 V (500 V/100 A)
Voltage protection level U _p (core-ground)	≤ 900 V (B2 - 4 kV/100 A)
	≤ 700 V (C2 - 4 kV/2 kA)
Response time tA (Core-Core)	≤ 1 ns
Response time tA (Core-Earth)	≤ 100 ns
Input attenuation aE, sym.	≤ 1 dB (up to 100 MHz/direct measuring)
	≤ 1 dB (up to 250 MHz/direct measuring)
	≤ 3 dB (up to 500 MHz/direct measuring)
Near-end crosstalk attenuation	≥ 35 dB (250 MHz/100 Ω/link)
	≥ 45 dB (100 MHz / 100 Ω / Link)
	≥ 27 dB (500 MHz / 100 Ω / Link)
	≥ 39 dB (250 MHz/100 Ω/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 (conductor-conductor)	B2 - 1 kV / 25 A
Impulse durability (conductor-ground)	B2 - 4 kV/100 A
	C2 - 4 kV/2 kA
	D1 - 1 kA

Connection data

Connection method	RJ45
Connection type IN	RJ45 socket
Connection type OUT	RJ45 socket

Connection, equipotential bonding

Connection method	Cable connection
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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

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Classifications

eCl@ss

eCl@ss 9.0	27130807
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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 

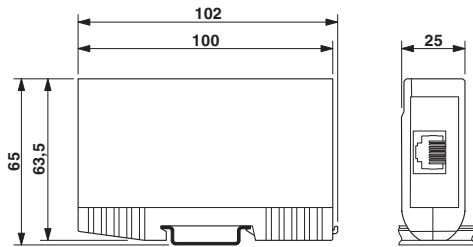
EAC

EAC

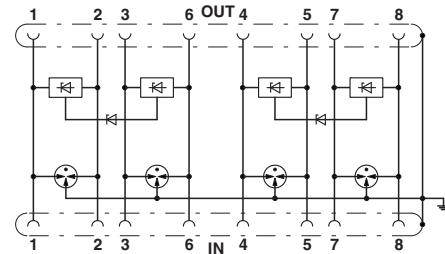
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Drawings

Dimensional drawing



Circuit diagram



Application drawing

