

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

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Surge protection in accordance with Class E_A (CAT6_A), for token ring, FDDI/CDDI, ISDN, DS1, Gigabit Ethernet, and 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

package_quantity	1
GTIN	4046356151900

Technical data

Dimensions

Height	103 mm
Width	25 mm
Depth	63 mm

Ambient conditions

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

General

Housing material	Zinc die-cast
Color	silver/black
Standards for air and creepage distances	VDE 0110-1
Standards for air and creepage distances	IEC 60664-1
Mounting type	Connection-specific attachment plug and DIN rail, 35 mm
Design	Attachment plug for DIN rail mounting
Number of positions	8
Direction of action	Line-Line & Line-Ground/Shield

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Technical data

Protective circuit

IEC test classification	B2
IEC test classification	C1
IEC test classification	C2
IEC test classification	C3
IEC test classification	D1
VDE requirement class	B2
VDE requirement class	C1
VDE requirement class	C2
VDE requirement class	C3
VDE requirement class	D1
Maximum continuous operating 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}	≤ 8 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
Residual voltage at I_n , (conductor-conductor)	≤ 100 V (PoE)
Voltage protection level U_p (Core-Core)	≤ 9 V (B2 - 1 kV/25 A)
Voltage protection level U_p (Core-Core)	≤ 100 V (B2 - 1 kV/25 A - PoE)
Voltage protection level U_p (Core-Core)	≤ 15 V (500 V/100 A)
Voltage protection level U_p (Core-Earth)	≤ 600 V
Voltage protection level U_p (Core-Earth)	≤ 700 V (C2 - 4 kV/2 kA)
Response time t_A (Core-Core)	≤ 1 ns
Response time t_A (Core-Earth)	≤ 100 ns
Input attenuation a_E , sym.	1 dB (≤ 250 MHz)
Near-end crosstalk attenuation	≤ 35 dB (At 250 MHz / 100 Ω)
Cut-off frequency f_g (3 dB), sym. in 100 Ohm system	> 500 MHz
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 carrying capacity in acc. with IEC 61643-21 (Core-Core)	B2 (1 kV/25 A)

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Protective circuit

Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	B2 (4 kV / 100 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C2 (4 kV / 2 kA)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	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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Standards and Regulations

Standards/regulations	IEC 61643-21
Standards/regulations	EN 50173-1
Standards/regulations	ISO/IEC 11801-Am.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

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

UL Listed /

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approvals

Approval details



accessories

Patch cable

FL CAT6 PATCH 0,5 - 2891288



FL CAT6 PATCH 1,0 - 2891385



FL CAT6 PATCH 2,0 - 2891589



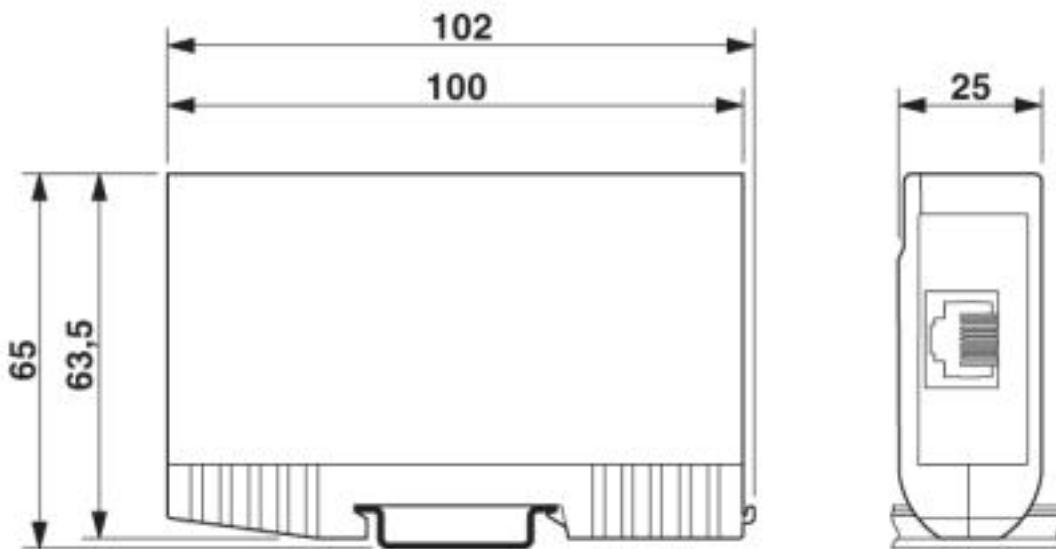
Drawings

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Application drawing

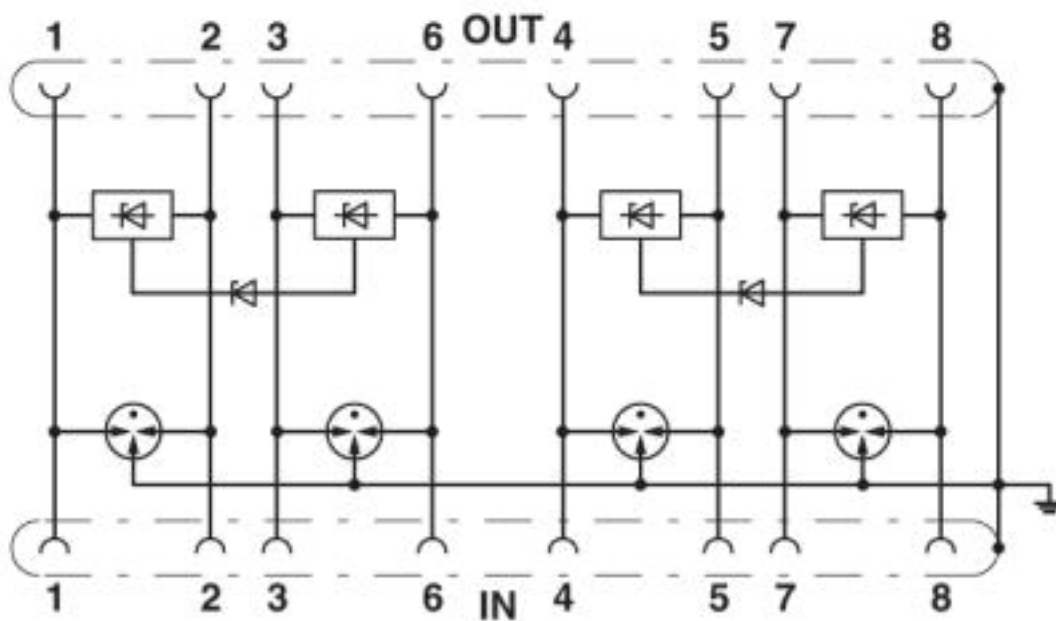


Dimensioned drawing



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Circuit diagram



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