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

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Surge protection in acc. with Class E_A (CAT.6), for token ring, FDDI/CDDI, ISDN, DS1, 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.

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	0
Minimum order quantity	1
Catalog page	Page 141 (TT-2011)
GTIN	4 046356 151900
Custom tariff number	85363010
Country of origin	GERMANY

Technical data

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
Total surge current (8/20) µs	10 kA
Ambient temperature (operation)	-40 °C ... 70 °C
Mounting type	Connection-specific attachment plug and DIN rail, 35 mm
Design	Attachment plug for DIN rail mounting
Number of positions	8
Degree of protection	IP20
Direction of action	Line-Line & Line-Ground/Shield
Width	25 mm

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Technical data

General

Height	103 mm
Depth	63 mm

Protective circuit

IEC category	B2
IEC category	C1
IEC category	C2
IEC category	C3
IEC category	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 UC	≤ 3.3 V DC
Maximum continuous voltage UC (wire-wire)	≤ 3.3 V DC (± 60 V DC/PoE+)
Maximum continuous voltage UC (wire-ground)	≤ 180 V DC
Nominal current IN	≤ 1.5 A (25°C)
Operating effective current IC at UC	≤ 1 µA
Ground conductor current IPE	≤ 8 µA
Nominal discharge surge current In (8/20) µs (Core-Core)	100 A
Nominal discharge surge current In (8/20) µs (Core-Earth)	2 kA (per signal pair)
Total surge current (8/20) µs	10 kA
Nominal pulse current Ian (10/700) µs (Core-Core)	≤ 40 A
Nominal pulse current Ian (10/700) µs (Core-Earth)	≤ 160 A
Output voltage limitation at 1 kV/µs (Core-Core) spike	≤ 85 V (PoE)
Output voltage limitation at 1 kV/µs (Core-Earth) spike	≤ 700 V
Output voltage limitation at 1 kV/µs (Core-Core) static	≤ 9 V
Output voltage limitation at 1 kV/µs (Core-Earth) static	≤ 700 V
Residual voltage at In, (conductor-conductor)	≤ 15 V
Residual voltage at In, (conductor-conductor)	≤ 100 V (PoE)
Protection level UP (Core-Core)	≤ 9 V (B2 - 1 kV/25 A)
Protection level UP (Core-Core)	≤ 100 V (B2 - 1 kV/25 A - PoE)
Protection level UP (Core-Core)	≤ 15 V (500 V/100 A)
Protection level UP (Core-Earth)	≤ 600 V
Protection level UP (Core-Earth)	≤ 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 (≤ 250 MHz)
Near-end crosstalk attenuation	≤ 35 dB (At 250 MHz / 100 Ω)
Cut-off frequency fg (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)

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Protective circuit

Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	B2 (1 kV/25 A)
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 female connector
Connection type OUT	RJ45 female connector

Connection, equipotential bonding

Connection method	Cable connection

Connection, protective circuit

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

Classifications

eclass

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

etim

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943

unspsc

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

Approvals

Approvals

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Approvals

Approvals

UL Listed / GOST / GOST

Ex Approvals

Approvals submitted

Approval details

UL Listed

GOST

GOST

Accessories

Accessories

Cable/conductor

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

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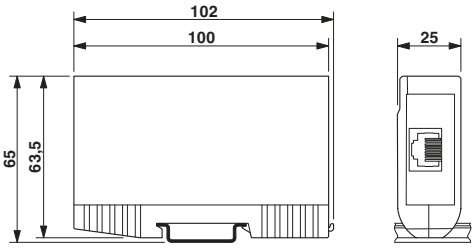
Accessories

Patch cable - FL CAT6 PATCH 2,0 - 2891589

Patch cable, CAT6, pre-assembled, 2.0 m

Drawings

Dimensioned drawing



Circuit diagram