

Surge protection device - D-LAN-CAT.5-FP - 2800723

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Fine surge protection in accordance with Class D (CAT5), for token ring, ISDN, DS1, Ethernet, and Power over Ethernet (PoE) "Mode A" and "Mode B". RJ45 attachment plug with separate grounding cable and snap-on foot for NS 35 DIN rails.

Why buy this product

- ✓ Reliable transmission speeds up to 1 Gbps
- ✓ Protective adapter for eight signal paths via RJ45 connector
- ✓ Suitable for category 5 data networks



Key Commercial Data

Packing unit	1 STK
Weight per Piece (excluding packing)	180.000 g
Custom tariff number	85363010
Country of origin	China

Technical data

Dimensions

Height	110 mm
Width	28 mm
Depth	60 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C
Degree of protection	IP20

General

Housing material	ABS
Flammability rating according to UL 94	V0
Color	gray

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Technical data

General

Standards for clearances and creepage distances	IEC 60664
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

Protective circuit

IEC test classification	B2
	C1
VDE requirement class	B2
	C1
Maximum continuous voltage U_C	± 5 V DC
Maximum continuous voltage U_C (wire-wire)	± 5 V DC (± 57 V DC / PoE+)
Nominal current I_N	≤ 1.5 A (25 °C)
Operating effective current I_C at U_C	≤ 600 μ A
Nominal discharge current I_n (8/20) μ s (Core-Core)	350 A
Nominal discharge current I_n (8/20) μ s (Core-Earth)	350 A
Nominal pulse current I_{an} (10/700) μ s (Core-Core)	≤ 25 A
Nominal pulse current I_{an} (10/700) μ s (Core-Earth)	≤ 25 A
Output voltage limitation at 1 kV/ μ s (Core-Core) spike	≤ 25 V
	≤ 90 V (PoE)
Output voltage limitation at 1 kV/ μ s (Core-Earth) spike	≤ 750 V
Output voltage limitation at 1 kV/ μ s (Core-Core) static	≤ 25 V
Output voltage limitation at 1 kV/ μ s (Core-Earth) static	≤ 750 V
Residual voltage at I_n (conductor-conductor)	≤ 35 V (C1 - 350 A)
	≤ 110 V (C1 - 350 A)
Residual voltage at I_n (conductor-ground)	≤ 700 V (C1 - 350 A)
Voltage protection level U_p (core-core)	≤ 20 V (B2 - 1 kV/25 A)
	≤ 90 V (B2 - 1 kV/25 A - PoE)
	≤ 35 V (C1 - 700 V/350 A)
	≤ 110 V (C1 - 700 V/350 A - PoE)
Voltage protection level U_p (core-ground)	≤ 700 V (B2 - 1 kV/25 A)
	≤ 700 V (C1 - 700 V/350 A)
Response time t_A (Core-Core)	≤ 1 ns
Response time t_A (Core-Earth)	≤ 100 ns
Input attenuation aE , sym.	≤ 1 dB (100 MHz/100 Ω)
Near-end crosstalk attenuation	≤ 63.3 dB (1 MHz/100 Ω)

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Protective circuit

	≤ 43.6 dB (16 MHz/100 Ω)
	≤ 30.1 dB (100 MHz/100 Ω)
Cut-off frequency f_g (3 dB), sym. in 100 Ohm system	> 100 MHz
Capacity (Core-Core)	typ. 15 pF (f= 1 MHz / VR= 0 V)
Capacity (Core-Earth)	typ. 5 pF (f= 1 MHz / VR= 0 V)
Impulse durability (conductor-conductor)	B2 (1 kV/25 A)
	C1 (700 V/350 A)
Impulse durability (conductor-ground)	B2 (1 kV/25 A)
	C1 (700 V/350 A)

Connection data

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

Connection, equipotential bonding

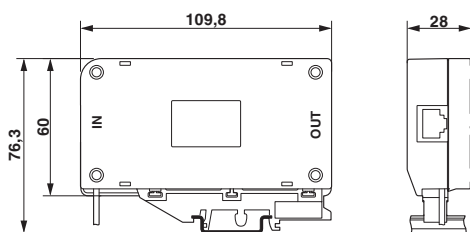
Connection method	Cable connection
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Standards and Regulations

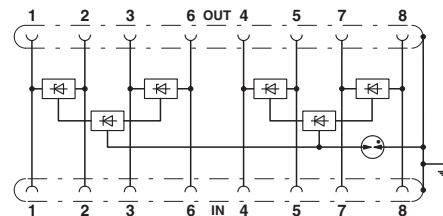
Standards/specifications	IEC 61643-21/A1 2008
	GB/T 18802.21 2004
	EN 61643-21/A1 2009

Drawings

Dimensional drawing



Circuit diagram



Approvals

Approvals

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Approvals

Approvals

UL Listed / EAC / EAC

Ex Approvals

Approval details

UL Listed  <http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm> FILE E 138168

EAC EAC-Zulassung

EAC 7500651.22.01.00243
