

Surge protection device - D-LAN-CAT.5E - 2858991

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Fine surge protection in accordance with Class D (CAT.5e), for token ring and Ethernet. RJ45 attachment plug with separate grounding cable, incl. RJ45 cable

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 920463
GTIN	4017918920463

Technical data

Dimensions

Height	94 mm
Width	25.4 mm
Depth	25.4 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 80 °C
Degree of protection	IP20

General

Housing material	Aluminum, anodized
Color	black
Standards for clearances and creepage distances	DIN VDE 0110-1
	IEC 60664-1
Overvoltage category	II
Degree of pollution	2
Mounting type	Connection-specific intermediate plugging
Type	Attachment plug
Direction of action	Line-Line & Line-Shield & Shield-Earth Ground

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Technical data

Protective circuit

IEC test classification	C1
	C2
	C3
	B2
	B3
VDE requirement class	C1
	C2
	C3
	B2
	B3
Maximum continuous voltage U_C	± 7 V DC
Rated current	1.5 A (25 °C)
Operating effective current I_C at U_C	≤ 100 μ A
Residual current I_{PE}	≤ 100 μ A
Nominal discharge current I_n (8/20) μ s (line-line)	350 A
Nominal discharge current I_n (8/20) μ s (line-earth)	2.5 kA
Max. discharge current I_{max} (8/20) μ s maximum (line-earth)	2.5 kA (in total)
Nominal pulse current I_{an} (10/700) μ s (line-line)	160 A
Nominal pulse current I_{an} (10/700) μ s (line-earth)	160 A
Output voltage limitation at 1 kV/ μ s (line-line) spike	≤ 22 V
Output voltage limitation at 1 kV/ μ s (line-earth) spike	≤ 80 V (equipotential bonding lead: 1 m)
Output voltage limitation at 1 kV/ μ s (shield-earth) spike	≤ 700 V (equipotential bonding lead: 1 m)
Residual voltage at I_n (line-line)	≤ 45 V
Residual voltage at I_n (line-earth)	≤ 45 V
Residual voltage at I_n (shield-earth)	≤ 700 V
Voltage protection level U_p (line-line)	≤ 50 V (C1 - 500 V / 250 A)
	≤ 20 V (B3 - 2 kV / 25 A)
Voltage protection level U_p (line-earth)	≤ 65 V (C1, 500 V/250 A - PA-Ltg: 1 m)
	≤ 25 V (B3 - 2 kV / 25 A - PA-Ltg: 1 m)
	≤ 60 V (C3, 7 kV/90 A - PA-Ltg: 1 m)
Voltage protection level U_p (shield-earth)	≤ 850 V (C2 - 4 kV/2 kA - PA-Ltg: 1 m)
Response time t_A (line-line)	≤ 500 ns
Response time t_A (line-earth)	≤ 100 ns
Input attenuation aE, sym.	1 dB (up to 100 MHz, 100 Ω system)
Near-end crosstalk attenuation	36 dB (pair 3-6 against pair 4-5 in 100 Ω system / 100 MHz)
	40 dB (all other pair combinations in 100 Ω system/100 MHz)
Cut-off frequency f_g (3 dB), sym. in 100 Ohm system	≤ 100 MHz
Capacity (line-line)	20 pF (typical)
Capacity (line-earth)	1 pF (typical)
Surge protection fault message	none

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Technical data

Protective circuit

Impulse durability (line-line)	B2 - 4 kV / 100 A
	B3 - 2 kV / 25 A
	C1 - 500 V / 250 A
Impulse durability (line-earth)	B2 - 4 kV / 100 A
	C1 - 500 V / 250 A
	C2 - 4 kV / 2 kA
	B3 - 2 kV / 25 A

Connection data

Connection method	RJ45
Connection method IN	RJ45 socket
Connection method OUT	RJ45 socket
Connection technology	Network interfaces (e.g. Ethernet, Token Ring and CDDI/FDDI)

Connection, equipotential bonding

Connection method	Cable connection
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Standards and Regulations

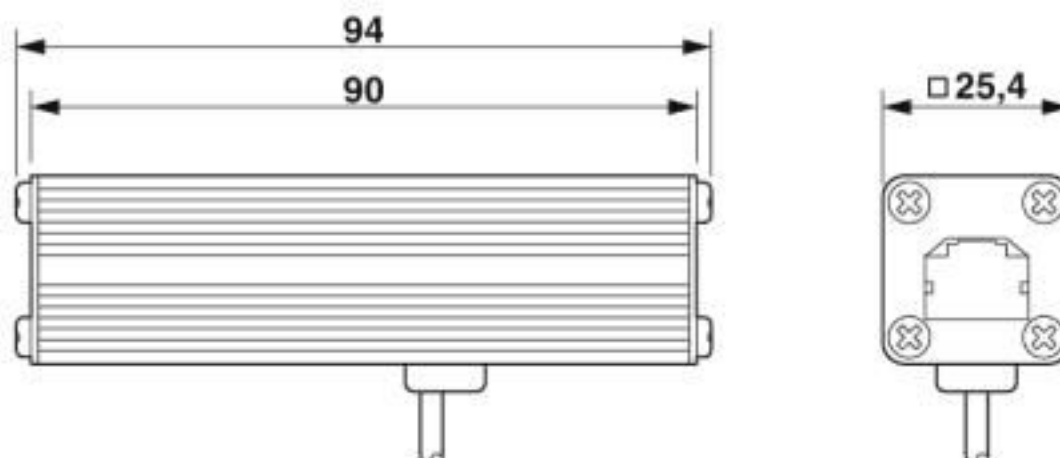
Standards/regulations	IEC 61643-21
	E VDE 0845-3-1
	DIN EN 50173-1

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

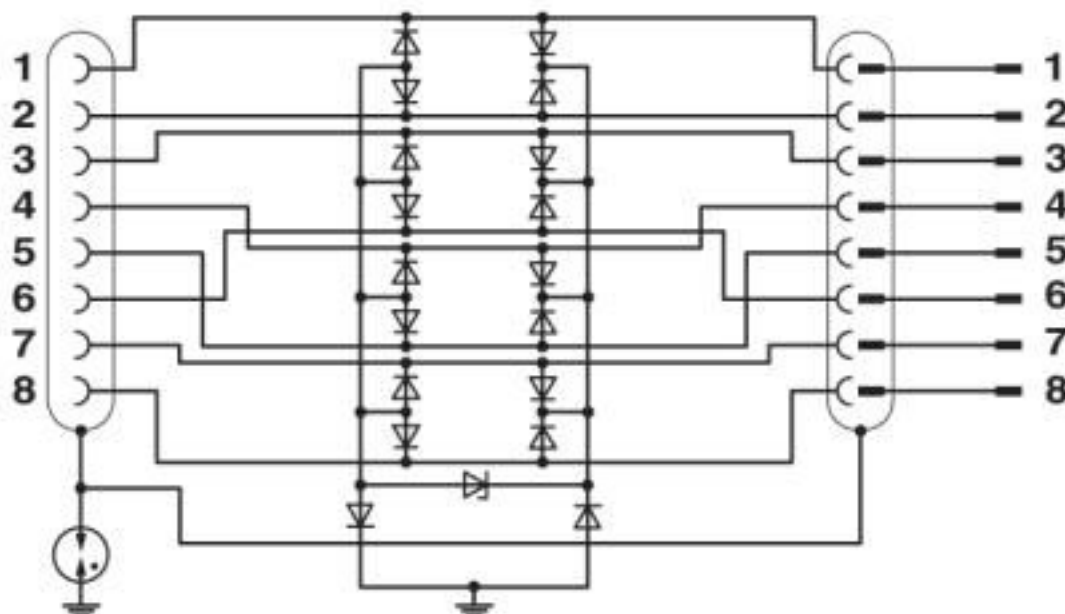
Drawings

Dimensional drawing



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Circuit diagram



Classifications

eCl@ss

eCl@ss 10.0.1	27130807
eCl@ss 4.0	27130800
eCl@ss 4.1	27130800
eCl@ss 5.0	27130800
eCl@ss 5.1	27130800
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
ETIM 7.0	EC000943

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610

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Classifications

UNSPSC

UNSPSC 12.01	39121610
UNSPSC 13.2	39121620
UNSPSC 18.0	39121620
UNSPSC 19.0	39121620
UNSPSC 20.0	39121620
UNSPSC 21.0	39121620

Approvals

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
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EAC		EAC-Zulassung
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EAC		RU C- DE.*09.B.00169
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Accessories

Additional products

Patch cable - FL CAT6 PATCH 0,5 - 2891288



Patch cable, CAT6, pre-assembled, 0.5 m

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Accessories

Patch cable - FL CAT6 PATCH 1,5 - 2891482



Patch cable, CAT6, pre-assembled, 1.5 m

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