Chipsmall

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PHŒNIX CONTACT

Surge protection device - D-LAN-A/RJ45-BS - 2818973

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Attachment connector with surge protection for LAN interfaces. Connection: RJ45 sockets

RoHS

Key Commercial Data

Packing unit	1 STK
GTIN	
GTIN	4017918172275

Technical data

Ambient conditions

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

General

Color	black
Standards for cearances and creepage distances	DIN VDE 0110-1
	IEC 60664-1
Overvoltage category	II
Degree of pollution	2
Type	Attachment plug
Direction of action	Line-Line & Line-Shield & Shield-Earth Ground

Protective circuit

IEC test classification	C1
	C2
	C3
	B2
VDE requirement class	C1
	C2

Surge protection device - D-LAN-A/RJ45-BS - 2818973

Technical data

Protective circuit

	C3
	B2
Maximum continuous voltage U_C	± 11 V DC
Nominal current I_N	1.5 A (25 °C)
Operating effective current I_C at U_C	≤ 1 mA
Residual current I_{PE}	≤ 1 µA
Nominal discharge current I_n (8/20) µs (line-line)	350 A
Nominal discharge current I_n (8/20) µs (line-earth)	2.5 kA
Max. discharge current I_{max} (8/20) µs maximum (line-line)	350 A
Max. discharge current I_{max} (8/20) µs maximum (line-earth)	2.5 kA
Nominal pulse current Ian (10/700) µs (line-line)	160 A
Nominal pulse current Ian (10/700) µs (line-earth)	160 A
Output voltage limitation at 1 kV/µs (line-line) static	≤ 30 V
Output voltage limitation at 1 kV/µs (line-earth) static	≤ 500 V
Output voltage limitation (10/700) µs (line-line)	≤ 12 V
Output voltage limitation (10/700) µs (line-earth)	≤ 200 V
Residual voltage at I_n (line-line)	≤ 37 V
Residual voltage at I_n (line-earth)	≤ 70 V
Voltage protection level U_p (line-line)	≤ 30 V (C1 - 500 V / 250 A)
	≤ 10 V (B2 - 4 kV / 100 A)
Voltage protection level U_p (line-earth)	≤ 400 V (C1 - 500 V / 250 A)
	≤ 150 V (B2 - 4 kV / 100 A)
Voltage protection level U_p (shield-ground)	≤ 600 V (C2 - 4 kV / 2 kA)
Response time t_A (line-line)	≤ 500 ns
Response time t_A (line-earth)	≤ 100 ns
Input attenuation aE, asym.	1 dB (up to 100 MHz, 100 Ω system)
Near-end crosstalk attenuation	35 dB (pair 3-6 against pair 4-5 in 100 Ω system / 100 MHz)
Cut-off frequency fg (3 dB), sym. in 100 Ohm system	> 100 MHz
Cut-off frequency fg (3 dB), sym. in 150 Ohm system	> 100 MHz
Capacity (line-line)	20 pF (1 MHz)
Capacity (line-earth)	1 pF (1 MHz)
Surge protection fault message	none

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)

Standards and Regulations

Standards/regulations	IEC 61643-21

Surge protection device - D-LAN-A/RJ45-BS - 2818973

Technical data

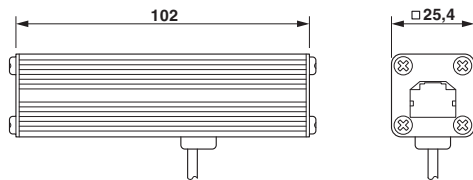### Standards and Regulations

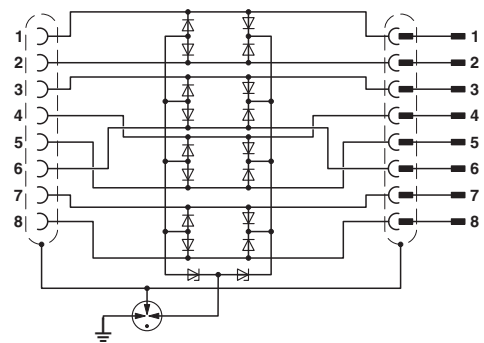|	EN 50173

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

Circuit diagram

Approvals

Approvals

Approvals

UL Listed / EAC

Ex Approvals

Approval details

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

EAC			RU C-DE.A*30.B01561

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