

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



2858991

<https://www.phoenixcontact.com/us/products/2858991>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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

Commercial data

Item number	2858991
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL24
Product key	CL3111
Catalog page	Page 97 (TT-2005)
GTIN	4017918920463
Weight per piece (including packing)	135.8 g
Weight per piece (excluding packing)	135 g
Customs tariff number	85363010
Country of origin	DE

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



2858991
<https://www.phoenixcontact.com/us/products/2858991>

Technical data

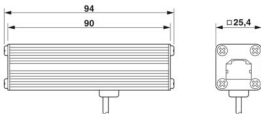
Product properties

Product type	Surge protection for information technology
Product family	DATATRAB
IEC test classification	C1
	C2
	C3
	B2
	B3
VDE requirement class	C1
	C2
	C3
	B2
	B3
Type	Attachment plug
Surge protection fault message	none
Insulation characteristics	
Overvoltage category	II
Pollution degree	2

Connection data

Connection method	RJ45
-------------------	------

Dimensions

Dimensional drawing	
Width	25.4 mm
Height	94 mm
Depth	25.4 mm

Material specifications

Color	black (RAL 9005)
Housing material	Aluminum, anodized

Mechanical properties

Mechanical data	
Open side panel	No

Protective circuit

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



2858991

<https://www.phoenixcontact.com/us/products/2858991>

Direction of action	Line-Line & Line-Shield & Shield-Earth Ground
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-ground)	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-ground) spike	≤ 700 V (equipotential bonding lead: 1 m)
Residual voltage at I_n (conductor-conductor)	≤ 45 V
Residual voltage at I_n (conductor-ground)	≤ 45 V
Residual voltage at I_n (shield-ground)	≤ 700 V
Voltage protection level U_p (line-line)	≤ 50 V (C1 - 500 V / 250 A)
	≤ 20 V (B3 - 2 kV / 25 A)
	≤ 65 V (C1, 500 V/250 A - PA-Ltg: 1 m)
Voltage protection level U_p (line-earth)	≤ 25 V (B3 - 2 kV / 25 A - PA-Ltg: 1 m)
	≤ 60 V (C3, 7 kV/90 A - PA-Ltg: 1 m)
	≤ 850 V (C2 - 4 kV/2 kA - PA-Ltg: 1 m)
Voltage protection level U_p (shield-ground)	≤ 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 Ω system	≤ 100 MHz
Capacity (Core-Core)	20 pF (typical)
Capacity (Core-Earth)	1 pF (typical)
Surge protection fault message	none
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

Environmental and real-life conditions

Ambient conditions

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

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



2858991
<https://www.phoenixcontact.com/us/products/2858991>

Standards and regulations

VDE requirement class	C1
	C2
	C3
	B2
	B3

Air clearances and creepage distances

Standards/regulations	DIN VDE 0110-1 / IEC 60664-1
-----------------------	------------------------------

Standards Information technology specification

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

Mounting

Mounting type	Connection-specific intermediate plugging
---------------	---

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

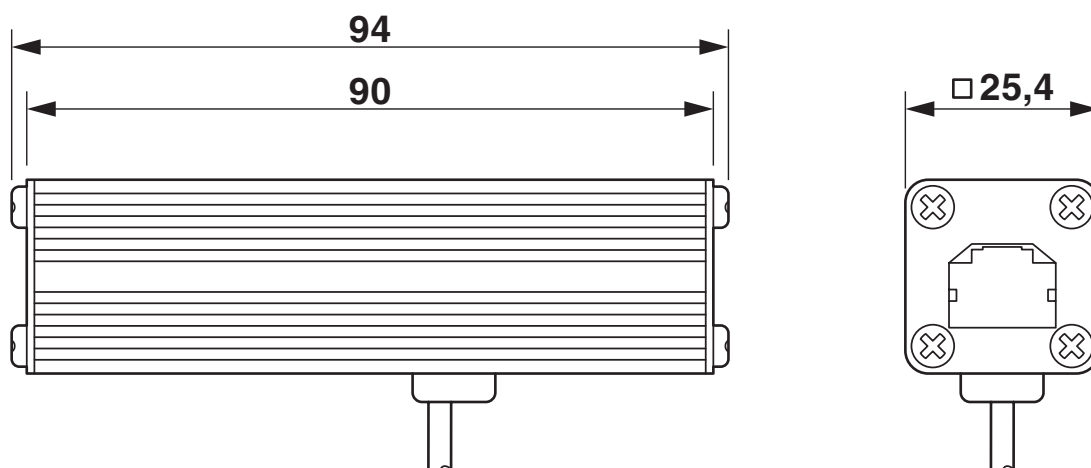
2858991

<https://www.phoenixcontact.com/us/products/2858991>

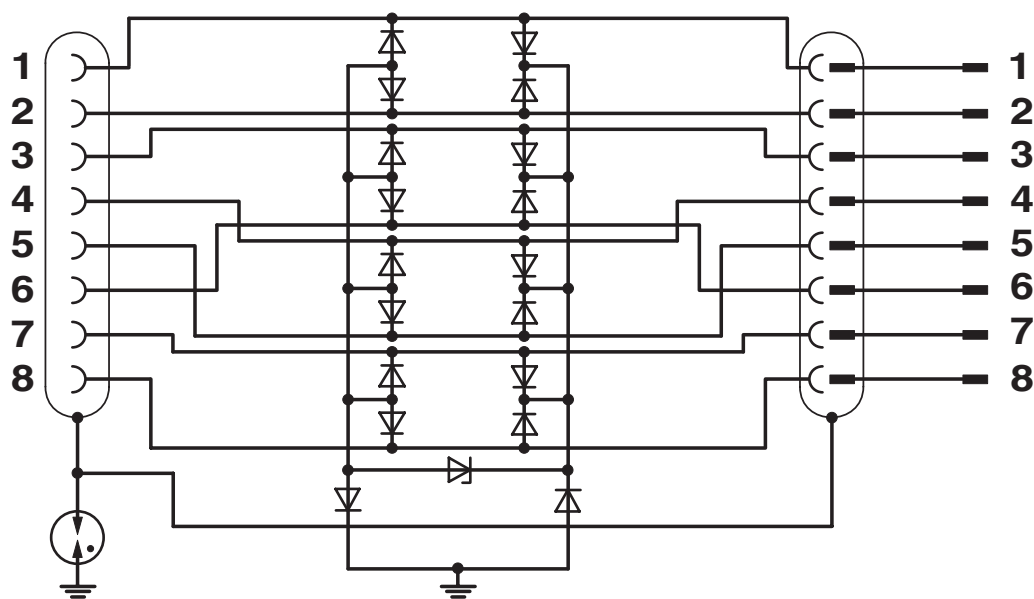


Drawings

Dimensional drawing



Circuit diagram



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



2858991

<https://www.phoenixcontact.com/us/products/2858991>

Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2858991>



EAC

Approval ID: EAC-Zulassung



EAC

Approval ID: RU C-DE.*09.B.00169



UL Listed

Approval ID: FILE E 138168

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



2858991

<https://www.phoenixcontact.com/us/products/2858991>

Classifications

ECLASS

ECLASS-11.0	27130807
ECLASS-13.0	27171503

ETIM

ETIM 9.0	EC001466
----------	----------

UNSPSC

UNSPSC 21.0	39121600
-------------	----------

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



2858991

<https://www.phoenixcontact.com/us/products/2858991>

Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	5560daf8-02ad-477f-8264-22d6d2558977

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



2858991

<https://www.phoenixcontact.com/us/products/2858991>

Accessories

FL CAT6 PATCH 0,5 - Patch cable

2891288

<https://www.phoenixcontact.com/us/products/2891288>



Patch cable, degree of protection: IP20, cable length: 0.5 m, number of positions: 8, 1 Gbps, CAT6, Ethernet

FL CAT6 PATCH 1,5 - Patch cable

2891482

<https://www.phoenixcontact.com/us/products/2891482>



Patch cable, CAT6, preassembled, 1.5 m

Phoenix Contact 2024 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com