

Surge protection device - D-LAN-CAT.5E-U - 2859084

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's documentation. Our General Terms of Use for Downloads are valid (<http://download.phoenixcontact.com>)



DATATRAB adapter, protective adapter to be inserted into the data line for the protection of the LAN interfaces, without RJ45 cable. The adapter is equipped with a universal foot, for mounting on the DIN rail NS 35/7.5.

Key commercial data

package_quantity	1
GTIN	4017918920470

Technical data

Dimensions

Height	94 mm
Width	25.4 mm
Depth	45.4 mm

Ambient conditions

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

General

Housing material	Aluminum, anodized
Color	black
Standards for air and creepage distances	DIN VDE 0110-1
Standards for air and creepage distances	IEC 60664-1
Surge voltage category	II
Pollution degree	2
Mounting type	DIN rail/G-profile rail
Design	Attachment plug for DIN rail mounting
Direction of action	Line-Line & Line-Shield & Shield-Earth Ground

Protective circuit

IEC test classification	C1
IEC test classification	C2
IEC test classification	C3
IEC test classification	B2
IEC test classification	B3
VDE requirement class	C1

Surge protection device - D-LAN-CAT.5E-U - 2859084

Technical data

Protective circuit

VDE requirement class	C2
VDE requirement class	C3
VDE requirement class	B2
VDE requirement class	B3
Maximum continuous voltage UC (wire-wire)	± 7 V DC
Maximum continuous voltage U _c (wire-ground)	± 7 V DC
Nominal current I _N	1.5 A (25 °C)
Operating effective current I _c at U _c	≤ 100 µA
Residual current I _{PE}	≤ 100 µA
Nominal discharge current I _n (8/20) µs (Core-Core)	350 A
Nominal discharge current I _n (8/20) µs (Core-Earth)	2.5 kA
Max. discharge current I _{max} (8/20) µs maximum (Core-Earth)	2.5 kA (in total)
Nominal pulse current I _{an} (10/700) µs (Core-Core)	160 A
Nominal pulse current I _{an} (10/700) µs (Core-Earth)	160 A
Output voltage limitation at 1 kV/µs (Core-Core) spike	≤ 22 V
Output voltage limitation at 1 kV/µs (Core-Earth) spike	≤ 80 V (equipotential bonding lead: 1 m)
Output voltage limitation at 1 kV/µs (Shield-Earth) 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 (Core-Core)	≤ 50 V (C1, 500 V/250 A)
Voltage protection level U _p (Core-Core)	≤ 20 V (B3, 2 kV/25 A)
Voltage protection level U _p (Core-Earth)	≤ 65 V (C1, 500 V/250 A - PA-Ltg: 1 m)
Voltage protection level U _p (Core-Earth)	≤ 25 V (B3, 2 kV/25 A - PA-Ltg: 1 m)
Voltage protection level U _p (Core-Earth)	≤ 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 (Core-Core)	≤ 500 ns
Response time t _A (Core-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)
Near-end crosstalk attenuation	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 (Core-Core)	20 pF (typical)
Capacity (Core-Earth)	1 pF (typical)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	B2 (4 kV / 100 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	B3 (2 kV/25 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	C1 (500 V / 250 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)	C1 (500 V/250 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C2 (4 kV / 2 kA)

Surge protection device - D-LAN-CAT.5E-U - 2859084

Technical data

Protective circuit

Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	B3 (2 kV/25 A)
---	----------------

Connection data

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

Connection, equipotential bonding

Connection method	Cable connection
--------------------------	------------------

Standards and Regulations

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

classifications

eCl@ss

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
eCl@ss 8.0	27130807

ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943

UNSPSC

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

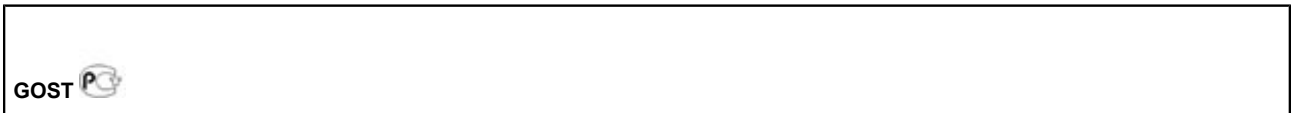
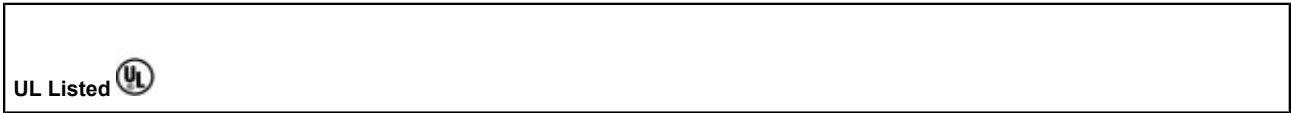
approvals

UL Listed / GOST / GOST /

Surge protection device - D-LAN-CAT.5E-U - 2859084

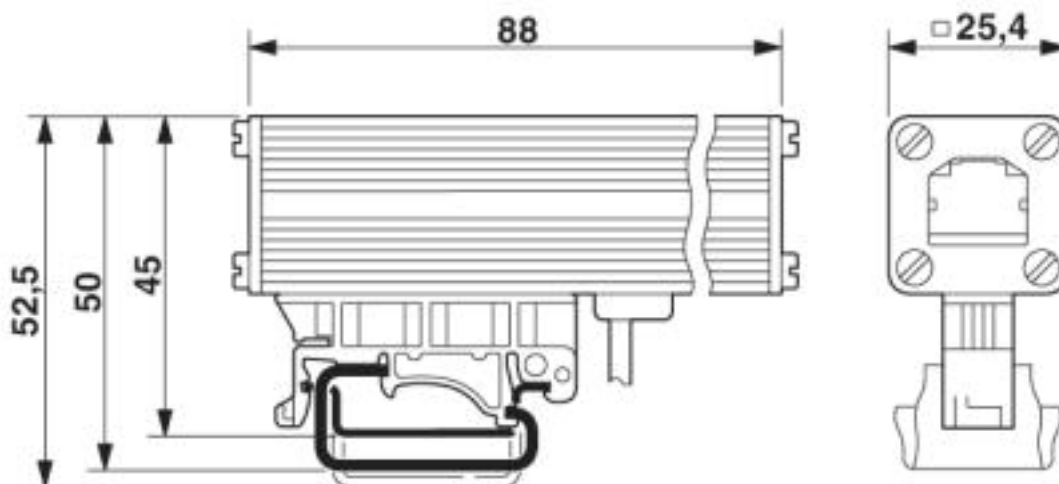
approvals

Approval details



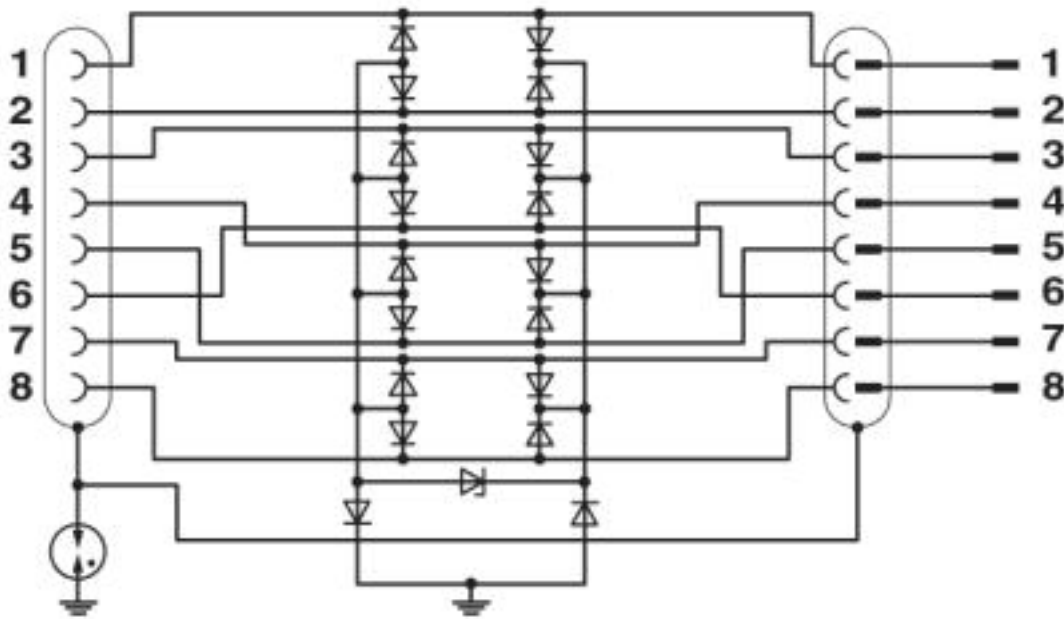
Drawings

Dimensioned drawing



Surge protection device - D-LAN-CAT.5E-U - 2859084

Circuit diagram



© Phoenix Contact 2013 - all rights reserved
<http://www.phoenixcontact.com>