Surge protection device - DT-TELE-RJ45 - 2882925

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Attachment plug with surge protection for analog and digital telecommunications interfaces (VDSL up to 50 Mbps). Connection: RJ45 (RJ12/RJ11) and screw terminal block (COMBICON). Alternatively, can be snapped onto a DIN rail.

Why buy this product

- For analog and digital (DSL) telecommunications interface
- Connection: RJ45 socket and/or plug-in screw terminal blocks
- The adapter included enables conversion from RJ45 to RJ11 and RJ12
- DIN rail mounting possible by removing the cover cap
- International use thanks to multiple assignment

Key Commercial Data

Packing unit	1 STK
GTIN	4 046356 155137
GTIN	4046356155137
Weight per Piece (excluding packing)	332.600 g
Custom tariff number	85369010
Country of origin	Germany

Technical data

Dimensions

Height	102 mm
Width	25 mm
Depth	63.5 mm

Ambient conditions

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Technical data

Ambient conditions

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

General

Housing material	Zinc die-cast
Color	silver/black
Mounting type	Connection-specific attachment plug and DIN rail, 35 mm
Type	Attachment plug for DIN rail mounting
Number of positions	4
Direction of action	Line-Line & Line-Ground/Shield

Protective circuit

IEC test classification	B2
	C1
	C2
	C3
	D1
Maximum continuous voltage U_C	185 V DC
	130 V AC
Rated current	≤ 380 mA (25 °C)
Operating effective current I_C at U_C	≤ 6 µA
Residual current I_{PE}	≤ 4 µA
Nominal discharge current I_n (8/20) µs (line-line)	≤ 5 kA
Nominal discharge current I_n (8/20) µs (line-earth)	≤ 5 kA
Total discharge current I_{total} (8/20) µs	10 kA
Nominal pulse current Ian (10/1000) µs (line-line)	100 A
Nominal pulse current Ian (10/1000) µs (line-earth)	100 A
Nominal pulse current Ian (10/700) µs (line-line)	150 A
Nominal pulse current Ian (10/700) µs (line-earth)	150 A
Output voltage limitation at 1 kV/µs (line-line) static	≤ 250 V
Output voltage limitation at 1 kV/µs (line-earth) static	≤ 250 V
Residual voltage at I_n (line-line)	≤ 120 V
Residual voltage at I_n (line-earth)	≤ 120 V
Voltage protection level U_p (line-line)	≤ 250 V (B2 - 4 kV / 100 A)
	≤ 250 V (C1 - 1 kV/500 A)
	≤ 250 V (C2 - 10 kV / 5 kA)
Voltage protection level U_p (line-earth)	≤ 250 V (B2 - 4 kV / 100 A)

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Protective circuit

	≤ 250 V (C1 - 1 kV/500 A)
	≤ 250 V (C2 - 10 kV / 5 kA)
Response time t_A (line-line)	≤ 100 ns
Response time t_A (line-earth)	≤ 100 ns
Input attenuation aE, sym.	typ. 0.5 dB (≤ 5 MHz / 100 Ω)
	typ. 0.3 dB (≤ 8 MHz / 150 Ω)
	typ. 0.3 dB (≤ 2.5 MHz / 600 Ω)
Cut-off frequency fg (3 dB), sym. in 100 Ohm system	typ. 50 MHz
Capacity (line-line)	typ. 20 pF (f= 1 MHz / VR= 0 V)
Capacity (line-earth)	typ. 20 pF (f= 1 MHz / VR= 0 V)
Resistance in series	3.3 Ω 10 %
Surge protection fault message	none
Impulse durability (line-line)	B2 - 4 kV/100 A
	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
Impulse durability (line-earth)	B2 - 4 kV/100 A
	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
	D1 - 1 kA

Connection data

Connection method	RJ45/COMBICON
Connection method IN	RJ45 socket
	MC 1,5/4
Connection method OUT	RJ45 socket
	MC 1,5/4
Connection technology	Screw connection
Screw thread	M2
Tightening torque	0.22 Nm
Stripping length	7 mm
Conductor cross section flexible	0.14 mm² ... 1.5 mm²
Conductor cross section solid	0.14 mm² ... 1.5 mm²
Conductor cross section AWG	28 ... 16

Connection, equipotential bonding

Connection method	DIN rail NS35

Standards and Regulations

Standards/specifications	IEC 61643-21 2012

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Standards and Regulations

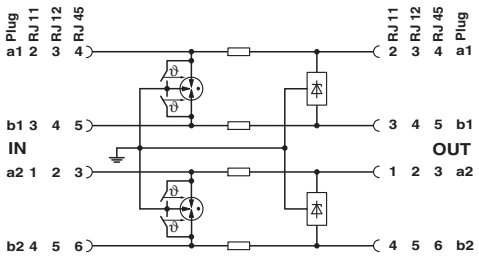
	EN 61643-21 2013

Environmental Product Compliance

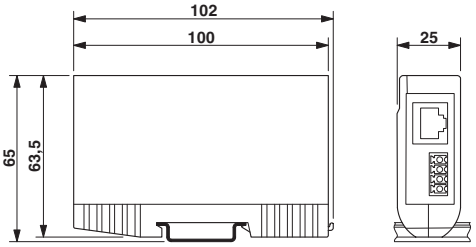
REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration”

Drawings

Circuit diagram



Dimensional drawing



Classifications

eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
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

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Classifications

ETIM

ETIM 6.0	EC000943

UNSPSC

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

Approvals

Approvals

Approvals

EAC / EAC

Ex Approvals

Approval details

EAC	EAC	RU C-DE.A*30.B01561
EAC	EAC	EAC-Zulassung