

Surge protection device - TTC-3-2X1-24DC-PT - 2907326

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Surge protection for two signal wires with common reference potential, e.g., Digital IN/OUT.

Your advantages

- ✓ Extremely space-saving installation due to the narrowest overall width of just 3.5 mm
- ✓ Quick and tool-free installation of surge protective devices, thanks to Push-in connection technology



Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 199924
GTIN	4055626199924
Weight per Piece (excluding packing)	24.200 g
Weight per piece (including packing)	24.200 g
Custom tariff number	85363010
Country of origin	Germany
Sales Key	K1 - Overvoltage Protect.

Technical data

Dimensions

Height	106 mm
Width	3.5 mm
Depth	69.5 mm (incl. DIN rail 7.5 mm)

Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 4000 m (amsl (above mean sea level))
Degree of protection	IP20 (with end cover)

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Technical data

General

Housing material	PBT
Flammability rating according to UL 94	V-0
Color	traffic grey A RAL 7042
Mounting type	DIN rail: TH 35 - 7.5 mm
Type	DIN rail module, one-piece
Direction of action	Line-Line & Line-Signal Ground/Shield & optional Signal Ground/Shield-Earth Ground

Protective circuit

IEC test classification	C1
	C2
	C3
	D1
Nominal voltage U_N	24 V DC
Maximum continuous voltage U_C	30 V DC
	21 V AC
Rated current	250 mA (70°C)
Operating effective current I_C at U_C	$\leq 1 \mu A$
Residual current I_{PE}	$\leq 2 \mu A$
Nominal discharge current I_n (8/20) μs (line-earth)	5 kA
Pulse discharge current I_{imp} (10/350) μs (line-earth)	0.5 kA
Total discharge current I_{total} (8/20) μs	10 kA
Voltage protection level U_p (line-earth)	$\leq 50 V$ (C1 - 500 V / 250 A)
	$\leq 100 V$ (C2 - 10 kV / 5 kA)
	$\leq 50 V$ (C3 - 30 A)
Response time t_A (line-earth)	$\leq 1 ns$
Input attenuation aE , asym.	typ. 0.3 dB ($\leq 600 kHz / 150 \Omega$)
Cut-off frequency f_g (3 dB), asym. (GND) in 150 Ohm system	typ. 2.4 MHz
Capacity (line-earth)	typ. 1 nF
Resistance in series	2.2 $\Omega \pm 10 \%$
Impulse durability (line-earth)	C1 - 500 V / 250 A
	C2 - 10 kV / 5 kA
	C3 - 30 A
	D1 - 500 A
Pulse reset time (line-earth)	$\leq 30 ms$

Connection data

Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section flexible	0.2 mm ² ... 1.5 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.2 mm ² ... 1 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve	0.2 mm ² ... 1.5 mm ²

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Connection data

Conductor cross section solid	0.2 mm ² ... 1.5 mm ²
Conductor cross section AWG	24 ... 16

Standards and Regulations

Standards/specifications	IEC 61643-21 2000 + corrigendum 2001 + A1:2008, modified + A2:2012
	EN 61643-21 2001 + A1:2009 + A2:2013

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"

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	27130800
eCl@ss 7.0	27130807
eCl@ss 8.0	27130807
eCl@ss 9.0	27130807

ETIM

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
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

Approvals

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Approvals

Approvals

DNV GL / CSA / UL Listed / CSAus / cCSAus

Ex Approvals

Approval details

DNV GL		https://approvalfinder.dnvgl.com/	TAE000027G
CSA		http://www.csagroup.org/services-industries/product-listing/	70136717
UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 138168
CSAus		http://www.csagroup.org/services-industries/product-listing/	70136717
cCSAus			

Accessories

Accessories

End block

End clamp - CLIPFIX 35-5 - 3022276



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray

Labeled terminal marker

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Accessories

Zack Marker strip, flat - ZBF 3,5,LGS:FORTL.ZAHLEN - 0801406



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snap into flat marker groove, for terminal block width: 3.5 mm, lettering field size: 5.15 x 3.5 mm

Marker pen

Marker pen - X-PEN 0,35 - 0811228



Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm

Terminal marking

Zack Marker strip, flat - ZBF 3,5:UNBEDRUCKT - 0829392



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into flat marker groove, for terminal block width: 3.5 mm, lettering field size: 3.5 x 5.2 mm

Additional products

Cover - TTC-3-LCP - 2908843



End cover for terminating a row of TERMITRAB complete TTC-3... terminal blocks

Ferrule - AI-S 1 - 8 TQ - 1200293



Ferrule, S-Slimline, sleeve length: 8 mm, length: 14.5 mm, color: turquoise

