

# Surge protection device - TTC-6-2XTVSD-24DC-PT - 2906808

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Fine surge protection for two signal wires with common reference potential.

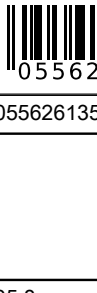


## Why buy this product

- Space-saving installation due to the narrow overall width of 6.2 mm
- Quick and tool-free installation of surge protective devices, thanks to Push-in connection technology



## Key Commercial Data

Packing unit	1 STK
GTIN	 4 055626 135724
GTIN	4055626135724

## Technical data

### Dimensions

Height	105.8 mm
Width	6.2 mm +0.1 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

### General

Housing material	PBT
Flammability rating according to UL 94	V-0
Color	traffic grey A RAL 7042

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## Technical data

### General

Mounting type	DIN rail: TH 35 - 7.5 mm
Type	DIN rail module, one-piece
Direction of action	Line-Earth Ground

### Protective circuit

IEC test classification	C1
	C3
Nominal voltage $U_N$	24 V DC
Maximum continuous voltage $U_C$	30 V DC
Rated current	6 A (55 °C)
Residual current $I_{PE}$	$\leq 10 \mu A$
Nominal discharge current $I_n$ (8/20) $\mu s$ (line-earth)	0.5 kA
Total discharge current $I_{total}$ (8/20) $\mu s$	1 kA
Voltage protection level $U_p$ (line-earth)	$\leq 60 V$ (C1 - 1 kV/500 A)
	$\leq 45 V$ (C3 - 25 A)
	$\leq 50 V$ (C3 - 100 A)
Response time $t_A$ (line-earth)	$\leq 1 ns$
Input attenuation aE, asym.	typ. 0.3 dB ( $\leq 300 kHz / 150 \Omega$ )
Cut-off frequency $f_g$ (3 dB), asym. (PE) in 150 Ohm system	typ. 960 kHz
Capacity (line-earth)	typ. 2.2 nF
Resistance in series	$\leq 100 m\Omega$
Surge protection fault message	none
Max. required back-up fuse	6.3 A (FF)
Impulse durability (line-earth)	C1 - 1 kV/500 A
	C3 - 100 A

### Connection data

Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section solid	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross section AWG	24 ... 12

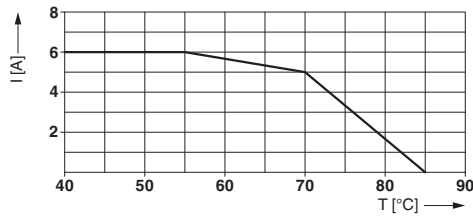
### Standards and Regulations

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

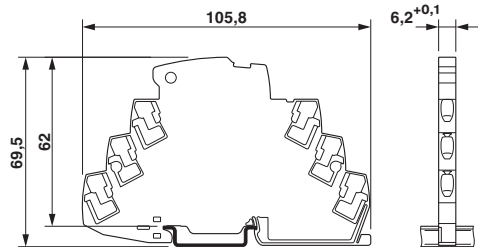
## Drawings

# Surge protection device - TTC-6-2XTVSD-24DC-PT - 2906808

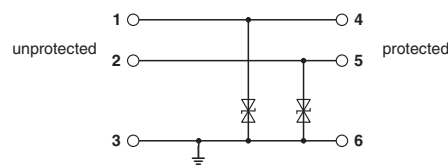
Diagram



Dimensional drawing



Circuit diagram



## Approvals

### Approvals

#### Approvals

UL Listed / CSA / CSAus / DNV GL / cCSAus

#### Ex Approvals

### Approval details

UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 138168
CSA		<a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a>	70136717
CSAus		<a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a>	70136717
DNV GL		<a href="http://exchange.dnv.com/tari/">http://exchange.dnv.com/tari/</a>	TAE000027G

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### Approvals

cCSAus



<http://www.csagroup.org/services-industries/product-listing/>

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