

## Surge protection device - TTC-6-TVSD-C-60DC-PT-I - 2906850

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Fine surge protection with integrated status indicator for a signal wire with grounded reference potential.


The figure shows the version with 24 V DC

### Why buy this product

- ✓ Space-saving installation due to the narrow overall width of 6.2 mm
- ✓ Signaling without additional auxiliary power, thanks to the mechanical status indicator
- ✓ Optional remote signaling module monitors up to 40 items, without additional wiring
- ✓ Quick and tool-free installation of surge protective devices, thanks to Push-in connection technology
- ✓ Safe behavior in the event of overload, thanks to the integrated disconnect device
- ✓ Fine surge protection by means of suppressor diode



### Key Commercial Data

Packing unit	1
GTIN	 4 055626 137063
GTIN	4055626137063
Custom tariff number	85363010

### Technical data

#### Dimensions

Height	92 mm
	92 mm
Width	6.2 mm

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## Technical data

### Dimensions

Depth	69.5 mm
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### Ambient conditions

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

### General

Housing material	PBT
Flammability rating according to UL 94	V-0
Color	traffic grey A RAL 7042
Mounting type	DIN rail: 35 mm
Design	Rail-mountable module, one-piece
Direction of action	Line-Earth Ground

### Protective circuit

IEC test classification	C3
Nominal voltage $U_N$	60 V DC
Maximum continuous voltage $U_C$	75 V DC
Rated current	10 A (60°C)
Operating effective current $I_C$ at $U_C$	$\leq 5 \mu A$
Residual current $I_{PE}$	$\leq 5 \mu A$
Nominal discharge current $I_n$ (8/20) $\mu s$ (core-earth)	60 A
Voltage protection level $U_p$ (core-ground)	$\leq 110 V$ (C3 - 12 A)
Response time $t_A$ (core-earth)	$\leq 1 ns$
Input attenuation aE, asym.	typ. 0.3 dB ( $\leq 1.2 MHz / 150 \Omega$ )
Cut-off frequency $f_g$ (3 dB), asym. (PE) in 150 Ohm system	typ. 4 MHz
Capacity (core-earth)	0.6 nF
Resistance in series	$\leq 100 m\Omega$
Surge protection fault message	optical
Impulse durability (conductor-ground)	C3 - 12 A

### Connection data

Connection method	Push-in connection
Connection method IN	Push-in connection
Connection method OUT	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>

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Technical data

Connection data

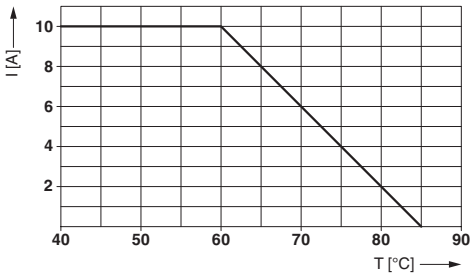
Conductor cross section AWG	24 ... 12
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Standards and Regulations

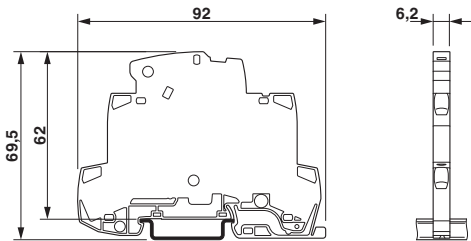
Standards/specifications	IEC 61643-21 2000 + corrigendum 2001 + A1:2008, modified + A2:2012
	EN 61643-21 2001 + A1:2009 + A2:2013

Drawings

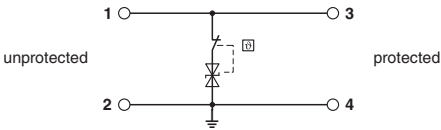
Diagram



Dimensional drawing



Circuit diagram



Approvals

Approvals

Approvals

UL Listed

Ex Approvals

Approval details

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### Approvals

UL Listed



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

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