

Surge protection device - TTC-6-TVSD-D-48DC-PT-I - 2906852

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Fine surge protection with integrated status indicator for a 2-wire floating signal circuit.

The figure shows the version with 24 V DC



Key Commercial Data

Packing unit	1
GTIN	 4 055626 137087
GTIN	4055626137087

Technical data

Dimensions

Height	92 mm
	92 mm
Width	6.2 mm
Depth	69.5 mm

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

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Technical data

General

Direction of action	Line-Earth Ground
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Protective circuit

IEC test classification	C3
Nominal voltage U_N	48 V DC
Maximum continuous voltage U_C	53 V DC
Rated current	10 A (60°C)
Operating effective current I_C at U_C	$\leq 5 \mu\text{A}$
Voltage protection level U_p (core-GND)	$\leq 80 \text{ V}$ (C3 - 18 A)
Response time t_A (core-earth)	$\leq 1 \text{ ns}$
Input attenuation aE, asym.	typ. 0.3 dB ($\leq 1 \text{ MHz} / 150 \Omega$)
Cut-off frequency f_g (3 dB), asym. (GND) in 150 Ohm system	typ. 3.5 MHz
Capacity (Core-GND)	1 nF
Resistance in series	$\leq 100 \text{ m}\Omega$
Surge protection fault message	optical
Impulse durability (conductor-GND)	C3 - 18 A

Connection data

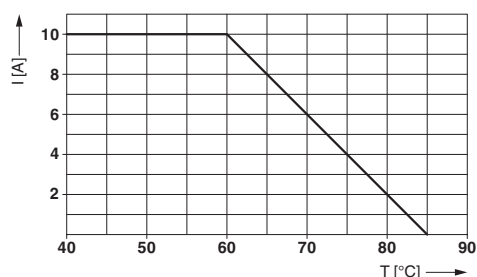
Connection method	Push-in connection
Connection method IN	Push-in connection
Connection method OUT	Push-in connection
Stripping length	8 mm
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section solid	0.2 mm ² ... 4 mm ²
Conductor cross section AWG	24 ... 12

Standards and Regulations

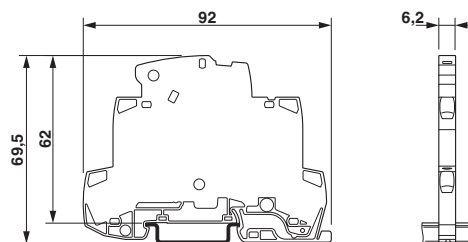
Standards/specifications	IEC 61643-21 2000 + corrigendum 2001 + A1:2008, modified + A2:2012
	EN 61643-21 2001 + A1:2009 + A2:2013

Drawings

Diagram



Dimensional drawing



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Circuit diagram

