

Surge protection device - TTC-6-TVSD-C-48DC-UT-I - 2906832

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



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
- ✓ 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 135953
GTIN	4055626135953
Custom tariff number	85363010

Technical data

Dimensions

Height	92 mm
	92 mm
Width	6.2 mm
Depth	69.5 mm

Surge protection device - TTC-6-TVSD-C-48DC-UT-I - 2906832

Technical data

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	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	$\leq 5 \mu A$
Residual current I_{PE}	$\leq 5 \mu A$
Nominal discharge current I_n (8/20) μs (core-earth)	90 A
Voltage protection level U_p (core-ground)	$\leq 80 V$ (C3 - 18 A)
Response time t_A (core-earth)	$\leq 1 ns$
Input attenuation a_E , asym.	typ. 0.3 dB ($\leq 1 MHz / 150 \Omega$)
Cut-off frequency f_g (3 dB), asym. (PE) in 150 Ohm system	typ. 3.5 MHz
Capacity (core-earth)	1 nF
Resistance in series	$\leq 100 m\Omega$
Surge protection fault message	optical
Impulse durability (conductor-ground)	C3 - 18 A

Connection data

Connection method	Screw connection
Connection method IN	Screw terminal blocks
Connection method OUT	Screw terminal blocks
Screw thread	M3
Tightening torque	0.5 Nm ... 0.6 Nm
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

Surge protection device - TTC-6-TVSD-C-48DC-UT-I - 2906832

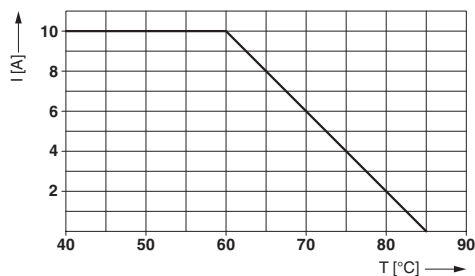
Technical data

Standards and Regulations

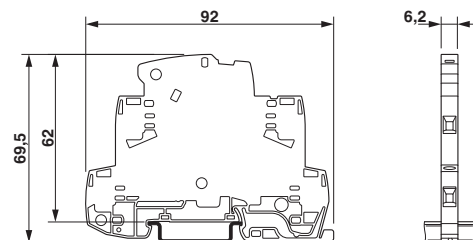
Standards/specifications	IEC 61643-21 2000 + corrigendum 2001 + A1:2008, modified + A2:2012
	EN 61643-21 2001 + A1:2009 + A2:2013

Drawings

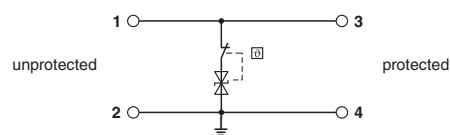
Diagram



Dimensional drawing



Circuit diagram



Approvals

Approvals

Approvals

UL Listed

Ex Approvals

Approval details

UL Listed



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

FILE E 138168

