

Surge protection device - TTC-6-GDT-C-110AC-PT-I - 2906861

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>)




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

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
- ✓ Coarse surge protection by means of gas discharge tube



Key Commercial Data

Packing unit	1 STK
GTIN	 4 055626 137162
GTIN	4055626137162

Technical data

Dimensions

Height	92 mm
Width	6.2 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)

Surge protection device - TTC-6-GDT-C-110AC-PT-I - 2906861

Technical data

General

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

Protective circuit

IEC test classification	C1
	C2
	C3
	D1
Nominal voltage U_N	110 V AC
Maximum continuous voltage U_C	130 V AC
Rated current	2 A (60 °C)
Operating effective current I_C at U_C	$\leq 1 \mu\text{A}$
Residual current I_{PE}	$\leq 1 \mu\text{A}$
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
Voltage protection level U_p (line-earth)	$\leq 800 \text{ V}$ (C1 - 2 kV)
	$\leq 1 \text{ kV}$ (C2 - 10 kV)
	$\leq 800 \text{ V}$ (C3 - 25 A)
	$\leq 900 \text{ V}$ (C3 - 100 A)
Response time t_A (line-earth)	$\leq 100 \text{ ns}$
Input attenuation aE, asym.	typ. 0.3 dB ($\leq 8 \text{ MHz} / 150 \Omega$)
	typ. 0.3 dB ($\leq 30 \text{ MHz} / 50 \Omega$)
Cut-off frequency f_g (3 dB), asym. (PE) in 50 Ohm system	typ. 130 MHz
Cut-off frequency f_g (3 dB), asym. (PE) in 150 Ohm system	typ. 25 MHz
Capacity (line-earth)	5 pF
Resistance in series	$\leq 100 \text{ m}\Omega$
Surge protection fault message	optical
Impulse durability (line-earth)	C1 - 1 kA
	C2 - 5 kA
	C3 - 100 A
	D1 - 500 A
Pulse reset time (line-earth)	$\leq 1 \text{ ms}$

Connection data

Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²

Surge protection device - TTC-6-GDT-C-110AC-PT-I - 2906861

Technical data

Connection data

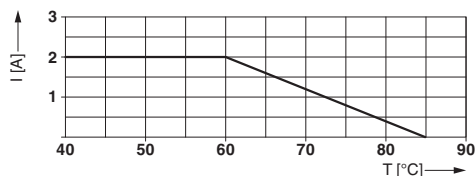
Conductor cross section solid	0.2 mm ² ... 4 mm ²
Conductor cross section AWG	24 ... 12

Standards and Regulations

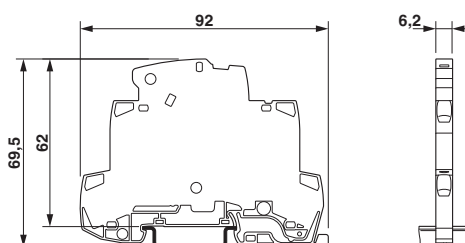
Standards/specifications	IEC 61643-21 2000 + corrigendum 2001 + A1:2008, modified + A2:2012
	EN 61643-21 2001 + A1:2009 + A2:2013

Drawings

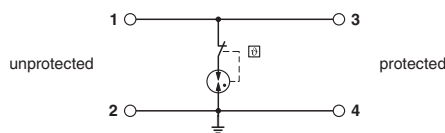
Diagram



Dimensional drawing



Circuit diagram



Approvals

Approvals

Approvals

UL Listed / CSA / CSAus / DNV GL / cCSAus

Ex Approvals


Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 138168
-----------	--	---	---------------

Surge protection device - TTC-6-GDT-C-110AC-PT-I - 2906861

Approvals

CSA		http://www.csagroup.org/services-industries/product-listing/	70136717
-----	---	---	----------

CSAus		http://www.csagroup.org/services-industries/product-listing/	70136717
-------	---	---	----------

DNV GL		http://exchange.dnv.com/tari/	TAE000027G
--------	--	---	------------

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

Phoenix Contact 2018 © - all rights reserved
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>