

Surge protection device - TTC-6-GDT-D-24AC-PT-I - 2906862

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

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
GTIN	 4 055626 137179
GTIN	4055626137179
Custom tariff number	85363010

Technical data

Dimensions

Height	92 mm
	92 mm
Width	6.2 mm
Depth	69.5 mm

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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	C1
	C2
	C3
	D1
Nominal voltage U_N	24 V AC
Maximum continuous voltage U_C	30 V AC
Rated current	2 A (60°C)
Operating effective current I_C at U_C	$\leq 1 \mu A$
Nominal discharge current I_n (8/20) μs (core-GND)	5 kA
Pulse discharge current I_{imp} (10/350) μs (core-GND)	0.5 kA
Voltage protection level U_p (core-GND)	$\leq 800 V$ (C1 - 2 kV)
	$\leq 1 kV$ (C2 - 10 kV)
	$\leq 800 V$ (C3 - 25 A)
	$\leq 900 V$ (C3 - 100 A)
Response time t_A (core-earth)	$\leq 100 ns$
Input attenuation aE , asym.	typ. 0.3 dB ($\leq 8 MHz / 150 \Omega$)
	typ. 0.3 dB ($\leq 30 MHz / 50 \Omega$)
Cut-off frequency f_g (3 dB), asym. (GND) in 50 Ohm system	typ. 130 MHz
Cut-off frequency f_g (3 dB), asym. (GND) in 150 Ohm system	typ. 25 MHz
Capacity (Core-GND)	5 pF
Resistance in series	$\leq 100 m\Omega$
Surge protection fault message	optical
Impulse durability (conductor-GND)	C1 - 1 kA
	C2 - 5 kA
	C3 - 100 A

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Technical data

Protective circuit

	D1 - 500 A
Pulse reset time (conductor-GND)	≤ 1 ms

Connection data

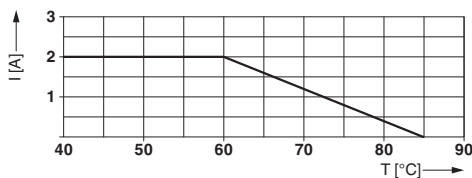
Connection method	Push-in connection
Connection method IN	Push-in connection
Connection method OUT	Push-in connection
Stripping length	8 mm
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section solid	0.2 mm ² ... 4 mm ²
Conductor cross section AWG	24 ... 12

Standards and Regulations

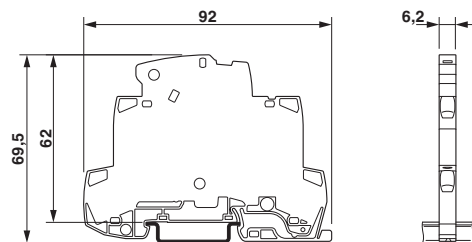
Standards/specifications	IEC 61643-21 2000 + corrigendum 2001 + A1:2008, modified + A2:2012
	EN 61643-21 2001 + A1:2009 + A2:2013

Drawings

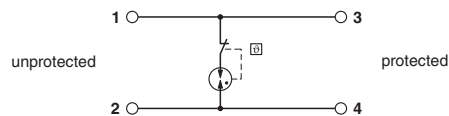
Diagram



Dimensional drawing



Circuit diagram



Approvals

Approvals

Approvals


UL Listed

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Approvals

Ex Approvals

Approval details

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