

Surge protection device - TTC-6-MOV-C-48DC-UT-I - 2906838

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Medium 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
- ✓ Medium surge protection by means of varistor



Key Commercial Data

Packing unit	1
GTIN	 4 055626 136943
GTIN	4055626136943
Custom tariff number	85363010

Technical data

Dimensions

Height	92 mm
	92 mm
Width	6.2 mm
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	C1
	C2
	C3
Nominal voltage U_N	48 V DC
Maximum continuous voltage U_C	60 V DC
Rated current	10 A (60°C)
Operating effective current I_C at U_C	$\leq 100 \mu\text{A}$
Residual current I_{PE}	$\leq 100 \mu\text{A}$
Nominal discharge current I_n (8/20) μs (core-earth)	2 kA
Voltage protection level U_p (core-ground)	$\leq 200 \text{ V}$ (C1 - 600 A)
	$\leq 220 \text{ V}$ (C2 - 4 kV)
	$\leq 150 \text{ V}$ (C3 - 25 A)
	$\leq 160 \text{ V}$ (C3 - 35 A)
Response time t_A (core-earth)	$\leq 25 \text{ ns}$
Input attenuation a_E , asym.	typ. 0.3 dB ($\leq 200 \text{ kHz} / 150 \Omega$)
Cut-off frequency f_g (3 dB), asym. (PE) in 150 Ohm system	typ. 650 kHz
Capacity (core-earth)	5 nF
Resistance in series	$\leq 100 \text{ m}\Omega$
Surge protection fault message	optical
Impulse durability (conductor-ground)	C1 - 600 A
	C2 - 2 kA
	C3 - 35 A

Connection data

Connection method	Screw connection
Connection method IN	Screw terminal blocks

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Connection data

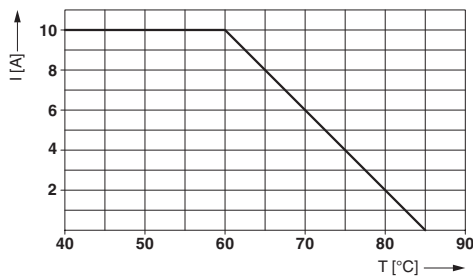
Connection method OUT	Screw terminal blocks
Screw thread	M3
Tightening torque	0.5 Nm ... 0.6 Nm
Stripping length	8 mm
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section solid	0.2 mm ² ... 4 mm ²
Conductor cross section AWG	24 ... 12

Standards and Regulations

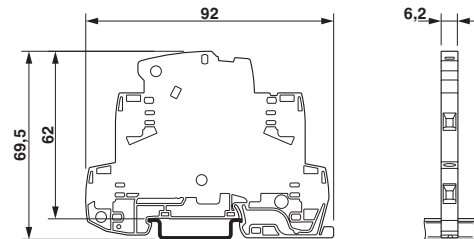
Standards/specifications	IEC 61643-21 2000 + corrigendum 2001 + A1:2008, modified + A2:2012
	EN 61643-21 2001 + A1:2009 + A2:2013

Drawings

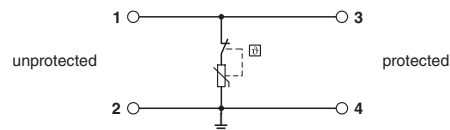
Diagram



Dimensional drawing



Circuit diagram



Approvals

Approvals

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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>

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