

Surge protection device - TTC-6-MOV-C-24DC-PT-I - 2906854


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



Key Commercial Data

Packing unit	1
GTIN	 4 055626 137100
GTIN	4055626137100

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
Direction of action	Line-Earth Ground

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Protective circuit

IEC test classification	C1
	C2
	C3
Nominal voltage U_N	24 V DC
Maximum continuous voltage U_C	30 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)	$\leq 110 \text{ V}$ (C1 - 700 V/350 A)
	$\leq 160 \text{ V}$ (C2 - 4 kV)
	$\leq 80 \text{ V}$ (C3 - 25 A)
Response time t_A (core-earth)	$\leq 25 \text{ ns}$
Input attenuation a_E , asym.	typ. 0.3 dB ($\leq 60 \text{ kHz} / 150 \Omega$)
Cut-off frequency f_g (3 dB), asym. (PE) in 150 Ohm system	typ. 200 kHz
Capacity (core-earth)	10 nF
Resistance in series	$\leq 100 \text{ m}\Omega$
Surge protection fault message	optical
Impulse durability (conductor-ground)	C1 - 350 A
	C2 - 2 kA
	C3 - 25 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

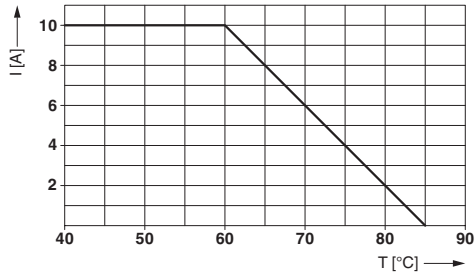
Standards and Regulations

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

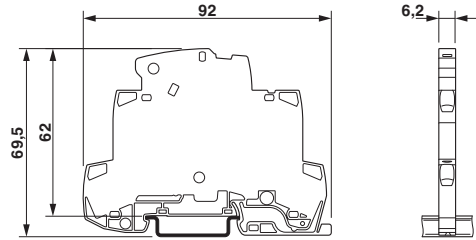
Drawings

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Diagram



Dimensional drawing



Circuit diagram

