

## Surge protection device - TTC-6-MOV-C-120AC-UT-I - 2906840

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>)




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

### Your advantages

- ✓ 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 pc
GTIN	 4 055626 136967
GTIN	4055626136967

### 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	≤ 2000 m (amsl (above mean sea level))
Degree of protection	IP20 (with end cover)

#### General

# Surge protection device - TTC-6-MOV-C-120AC-UT-I - 2906840

## 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
Nominal voltage $U_N$	120 V AC
Maximum continuous voltage $U_C$	150 V DC
	150 V AC
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) $\mu\text{s}$ (line-earth)	2.5 kA
Voltage protection level $U_p$ (line-earth)	$\leq 200 \text{ V}$ (C1 - 800 A)
	$\leq 500 \text{ V}$ (C2 - 5 kV)
	$\leq 380 \text{ V}$ (C3 - 25 A)
	$\leq 380 \text{ V}$ (C3 - 35 A)
Response time $t_A$ (line-earth)	$\leq 25 \text{ ns}$
Input attenuation aE, asym.	typ. 0.3 dB ( $\leq 300 \text{ kHz} / 150 \Omega$ )
Cut-off frequency $f_g$ (3 dB), asym. (PE) in 150 Ohm system	typ. 1 MHz
Capacity (line-earth)	5 nF
Resistance in series	$\leq 100 \text{ m}\Omega$
Surge protection fault message	optical
Impulse durability (line-earth)	C1 - 800 A
	C2 - 2.5 kA
	C3 - 35 A

### Connection data

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.5 Nm ... 0.6 Nm
Stripping length	8 mm
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section solid	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross section AWG	24 ... 12

### Standards and Regulations

# Surge protection device - TTC-6-MOV-C-120AC-UT-I - 2906840

## Technical data

### Standards and Regulations

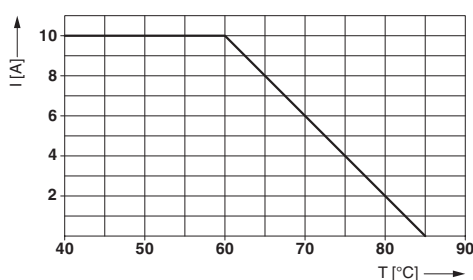
Standards/specifications	IEC 61643-21 2000 + corrigendum 2001 + A1:2008, modified + A2:2012
	EN 61643-21 2001 + A1:2009 + A2:2013

### Environmental Product Compliance

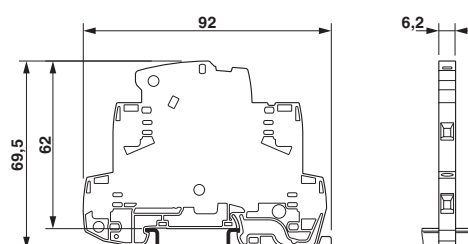
REACH SVHC	Lead 7439-92-1
------------	----------------

## Drawings

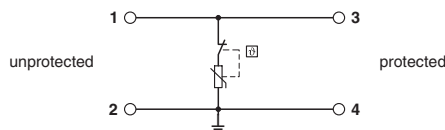
Diagram



Dimensional drawing



Circuit diagram



## Approvals

### Approvals

#### Approvals

UL Listed / CSA / CSAus / DNV GL / cCSAus


#### Ex Approvals


### Approval details

UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 138168
-----------	--	---	---------------


## Surge protection device - TTC-6-MOV-C-120AC-UT-I - 2906840

### Approvals

CSA		<a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a>	70136717
-----	---	---	----------

CSAus		<a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a>	70136717
-------	---	---	----------

DNV GL		<a href="http://exchange.dnv.com/tari/">http://exchange.dnv.com/tari/</a>	TAE000027G
--------	--	---	------------

cCSAus		<a href="http://www.csagroup.org/services/testing-and-certification/certified-product-listing/">http://www.csagroup.org/services/testing-and-certification/certified-product-listing/</a>	
--------	---	---	--

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>