



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: [info@chipsmall.com](mailto:info@chipsmall.com) Web: [www.chipsmall.com](http://www.chipsmall.com)

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



## Surge protection device - TTC-6-TVSD-C-60DC-UT-I - 2906833

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>)



Fine 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
- ✓ Safe behavior in the event of overload, thanks to the integrated disconnect device
- ✓ Fine surge protection by means of suppressor diode



### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 STK                                                                                                   |
| GTIN         | <br>4 055626 135960 |
| GTIN         | 4055626135960                                                                                           |

### 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)                  |

#### General

# Surge protection device - TTC-6-TVSD-C-60DC-UT-I - 2906833

## 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                                      | C3                                          |
| Nominal voltage $U_N$                                        | 60 V DC                                     |
| Maximum continuous voltage $U_C$                             | 75 V DC                                     |
|                                                              | 53 V AC                                     |
| Rated current                                                | 10 A (60 °C)                                |
| Operating effective current $I_C$ at $U_C$                   | $\leq 5 \mu A$                              |
| Residual current $I_{PE}$                                    | $\leq 5 \mu A$                              |
| Nominal discharge current $I_n$ (8/20) $\mu s$ (line-earth)  | 60 A                                        |
| Voltage protection level $U_p$ (line-earth)                  | $\leq 110 V$ (C3 - 12 A)                    |
| Response time $t_A$ (line-earth)                             | $\leq 1 ns$                                 |
| Input attenuation aE, asym.                                  | typ. 0.3 dB ( $\leq 1.2 MHz / 150 \Omega$ ) |
| Cut-off frequency $f_g$ (3 dB), asym. (PE) in 150 Ohm system | typ. 4 MHz                                  |
| Capacity (line-earth)                                        | 0.6 nF                                      |
| Resistance in series                                         | $\leq 100 m\Omega$                          |
| Surge protection fault message                               | optical                                     |
| Impulse durability (line-earth)                              | C3 - 12 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

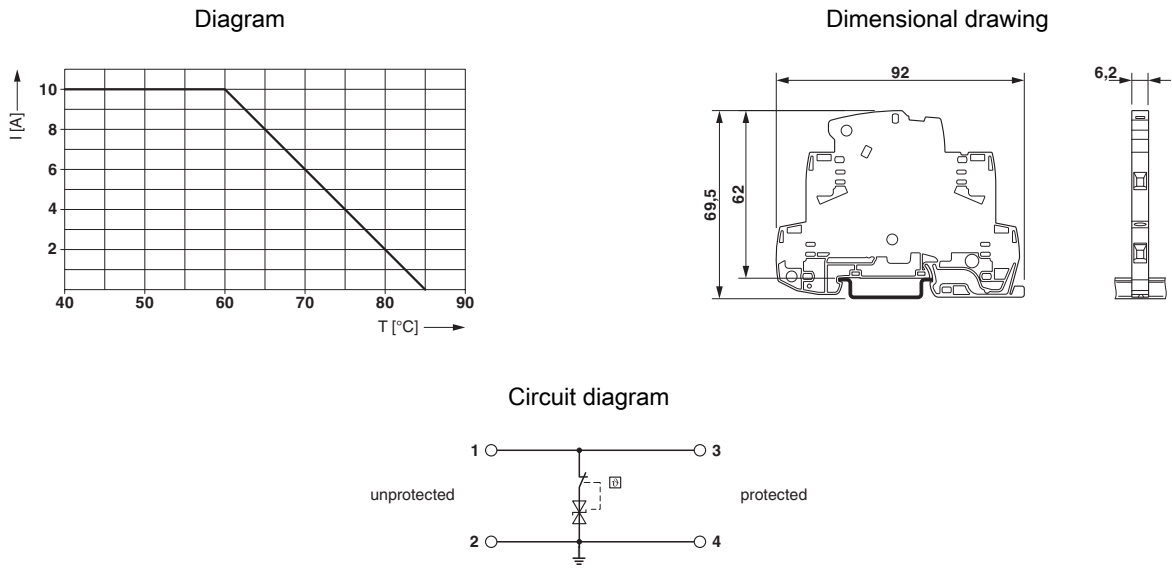
|                          |                                                                    |
|--------------------------|--------------------------------------------------------------------|
| Standards/specifications | IEC 61643-21 2000 + corrigendum 2001 + A1:2008, modified + A2:2012 |
|     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

### Environmental Product Compliance

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

## Drawings

Surge protection device - TTC-6-TVSD-C-60DC-UT-I - 2906833



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 |
| 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    |

## Surge protection device - TTC-6-TVSD-C-60DC-UT-I - 2906833

### Approvals

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>