

# TTC-6P-3-5DC-PT-I - Surge protection device



1061385

<https://www.phoenixcontact.com/us/products/1061385>

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Surge protection, consisting of protective plug and base element, with integrated status indicator for a 3-wire floating signal circuit with high nominal current.

## Your advantages

- Space-saving and cost-saving with a narrow overall width of just 6 mm
- Continuous monitoring of protective devices, plus mechanical status indicator with optional remote signaling
- Finding the right product for all possible requirements in MCR applications is easy, thanks to the complete range of products with customized features
- Easy testing and documentation with CHECKMASTER 2 with pluggable protective modules
- The signal is not influenced during maintenance work, thanks to the impedance-neutral insertion and removal of protective plugs

## Commercial data

Item number	1061385
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL23
Product key	CL2162
GTIN	4055626712895
Weight per piece (including packing)	41.3 g
Weight per piece (excluding packing)	40 g
Customs tariff number	85363010
Country of origin	DE

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## Technical data

### Product properties

Product type	Surge protection for MCR technology
Product family	TERMITRAB complete
IEC test classification	C1
	C2
	C3
Type	DIN rail module, two-section, divisible

### Insulation characteristics

Overvoltage category	III
Pollution degree	2

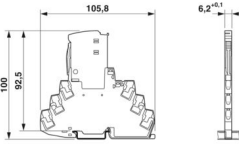
### Electrical properties

Nominal voltage $U_N$	5 V DC
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### Connection data

Connection method	Push-in connection
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 12

### Dimensions

Dimensional drawing	
Width	6.2 mm +0.1 mm
Height	105.8 mm
Depth	100 mm (incl. DIN rail 7.5 mm)

### Material specifications

Color (Base element)	gray (RAL 7042)
Color (Male connector)	light gray (RAL 7035)
Flammability rating according to UL 94	V-0
Insulating material	PBT
Housing material	PBT

### Mechanical properties

#### Mechanical data

Open side panel	No
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## Protective circuit

Direction of action	Line-Line & Line-Signal Ground/Shield & optional Signal Ground/Shield-Earth Ground
Nominal voltage $U_N$	5 V DC
Maximum continuous operating voltage $U_C$	5 V DC 3 V AC
Rated current	5 A (55 °C)
Operating effective current $I_C$ at $U_C$	≤ 1 mA
Protective conductor current $I_{PE}$	≤ 1 μA
Nominal discharge current $I_n$ (8/20) μs (line-line)	0.5 kA
Nominal discharge current $I_n$ (8/20) μs (line-ground)	5 kA
Total discharge current $I_{Total}$ (8/20) μs	10 kA
Voltage protection level $U_p$ (line-line)	≤ 39 V (C1 - 1 kV / 500 A) ≤ 25 V (C3 - 100 A) ≤ 25 V (C3 - 25 A)
Voltage protection level $U_p$ (line-earth)	≤ 700 V (C1 - 1 kV / 500 A) ≤ 900 V (C2 - 10 kV / 5 kA)
Response time $t_A$ (line-line)	≤ 1 ns
Response time $t_A$ (line-earth)	≤ 100 ns
Input attenuation aE, sym.	typ. 0.3 dB (≤ 7 MHz/150 Ω)
Cut-off frequency $f_g$ (3 dB), sym. in 150 Ω system	typ. 33 MHz
Capacity (Core-Core)	typ. 50 pF
Capacity (Core-Earth)	typ. 50 pF
Resistance per path	< 0.1 Ω
Surge protection fault message	optical
Max. required back-up fuse	5 A (F)
Impulse durability (line-line)	C1 - 1 kV / 500 A C3 - 100 A
Impulse durability (line-earth)	C1 - 1 kV / 500 A C2 - 10 kV / 5 kA
Pulse reset time (line-line)	≤ 30 ms
Pulse reset time (line-earth)	≤ 30 ms

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 4000 m (amsl)
Permissible humidity (operation)	5 % ... 95 %

## Approvals

Conformity/Approvals

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1061385

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UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D T4A
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## Standards and regulations

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

### EN 61643-21

Standards/specifications	EN 61643-21
Note	2001 + A1:2009 + A2:2013

## Mounting

Mounting type	DIN rail: TH 35 - 7.5 mm
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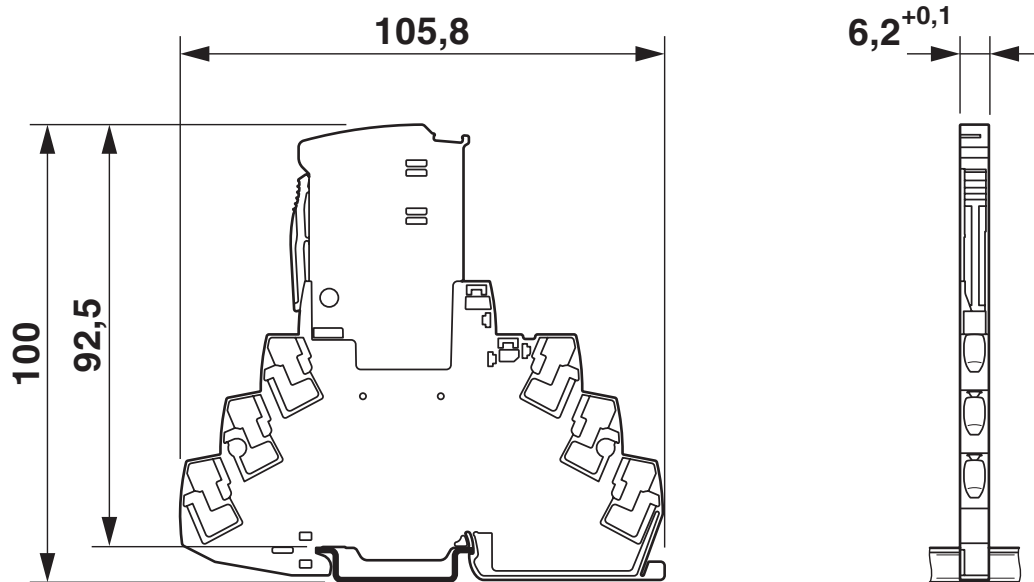


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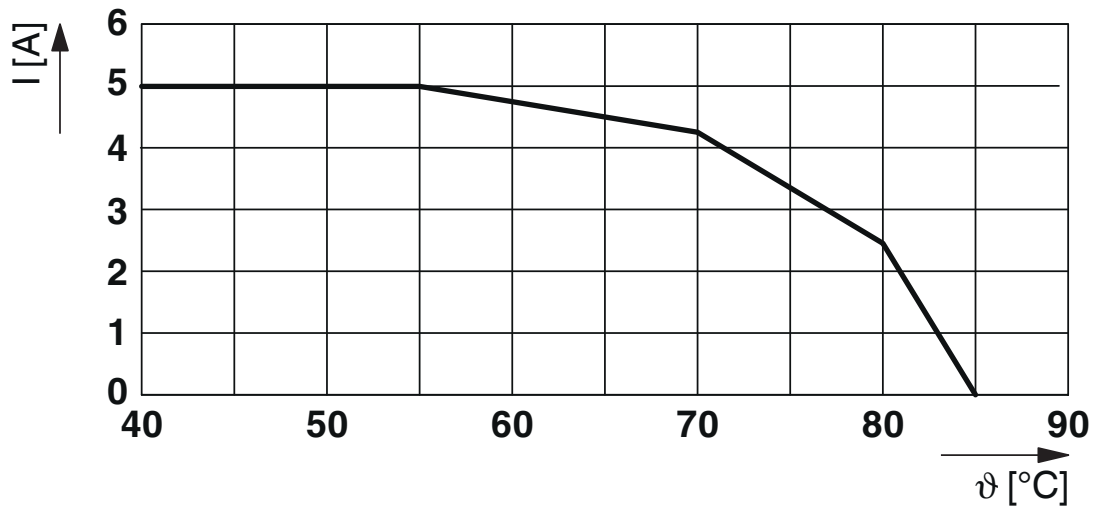
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## Drawings

Dimensional drawing



Diagram



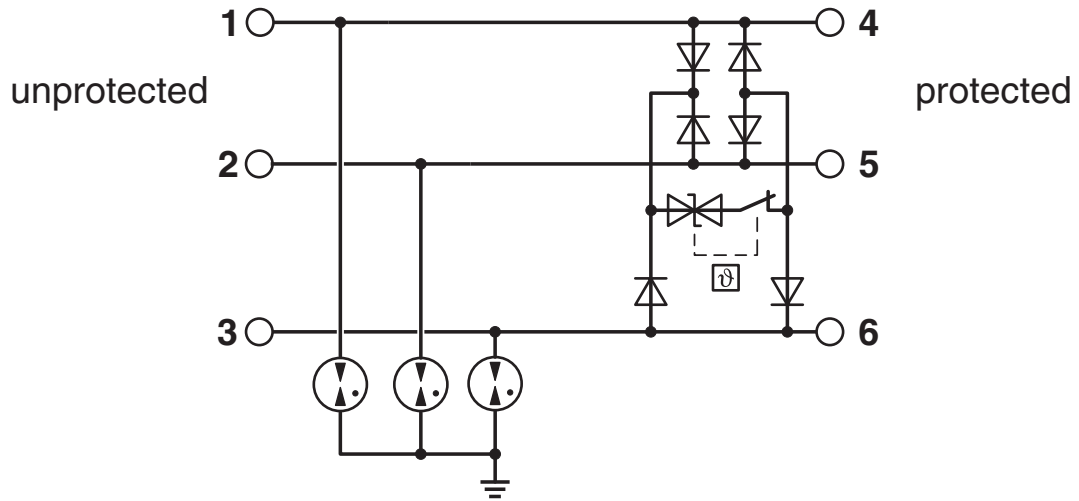
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Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1061385>



**UL Listed**

Approval ID: FILE E 138168



**DNV GL**

Approval ID: TAE000027G

**UAE-RoHS**

Approval ID: 22-06-16781



**UL Listed**

Approval ID: FILE E 138168



**cUL Listed**

Approval ID: FILE E 333250



**UL Listed**

Approval ID: FILE E 333250



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## Classifications

### ECLASS

ECLASS-13.0	27171501
ECLASS-15.0	27171501

### ETIM

ETIM 10.0	EC001466
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### UNSPSC

UNSPSC 21.0	39121600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a)

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	ae7cc98a-23e7-41f3-b7f8-f8945b3db0a1

### EF3.1 Climate Change

CO2e kg	1.725 kg CO2e
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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)