

Surge protection device - TTC-6P-4-24DC-PT-I - 1106014

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>)



Surge protection, consisting of protective plug and base element, with integrated status indicator for a 4-wire floating signal circuit with high nominal current. Ideal for 4-conductor measurements, e.g., of temperature and weight.

Your advantages

- ✓ Efficient use of space: the narrowest pluggable surge protection solution for 4-conductor applications
- ✓ Easy function monitoring: on-site or optionally via remote signaling, with optical monitoring, without additional effort
- ✓ Servicing without affecting the signal: replace the surge protection module without affecting the measuring signal
- ✓ Flexible choice: Push-in Technology or screw connection



Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 997100
GTIN	4055626997100

Technical data

Dimensions

Height	125 mm
Width	6.2 mm +0.1 mm
Depth	100 mm (incl. DIN rail 7.5 mm)

Ambient conditions

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

General

Housing material	PBT
------------------	-----

Surge protection device - TTC-6P-4-24DC-PT-I - 1106014

Technical data

General

Flammability rating according to UL 94	V-0
Color	traffic grey A RAL 7042
	light grey RAL 7035
Mounting type	DIN rail: TH 35 - 7.5 mm
Type	DIN rail module, two-section, divisible
Direction of action	Line-Line & Line-Earth Ground

Protective circuit

IEC test classification	C1
	C2
	C3
Nominal voltage U_N	24 V DC
	24 V AC
Maximum continuous voltage U_C	36 V DC
	30 V AC
Rated current	2.5 A (60°C for insulated systems)
Operating effective current I_C at U_C	$\leq 5 \mu A$
Residual current I_{PE}	$\leq 1 \mu A$
Nominal discharge current I_n (8/20) μs (line-line)	0.5 kA
Nominal discharge current I_n (8/20) μs (line-earth)	5 kA
Voltage protection level U_p (line-line)	$\leq 90 V$ (C1 - 1 kV/500 A)
	$\leq 70 V$ (C3 - 70 A)
Voltage protection level U_p (line-earth)	$\leq 900 V$ (C1 - 1 kV/500 A)
	$\leq 900 V$ (C2 - 10 kV / 5 kA)
Response time t_A (line-line)	$\leq 1 ns$
Response time t_A (line-earth)	$\leq 100 ns$
Input attenuation aE, sym.	typ. 0.3 dB ($\leq 12 MHz / 150 \Omega$)
Cut-off frequency f_g (3 dB), sym. in 150 Ohm system	$> 60 MHz$
Capacity (line-line)	typ. 30 pF
Capacity (line-earth)	typ. 30 pF
Resistance per path	0.03 Ω
Surge protection fault message	optical
Max. required back-up fuse	2.5 A (F)
Impulse durability (line-line)	C1 - 1 kV / 500 A
	C3 - 70 A
Impulse durability (line-earth)	C1 - 1 kV / 500 A
	C2 - 10 kV / 5 kA
	C3 - 100 A

Connection data

Connection method	Push-in connection
-------------------	--------------------

Surge protection device - TTC-6P-4-24DC-PT-I - 1106014

Technical data

Connection data

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

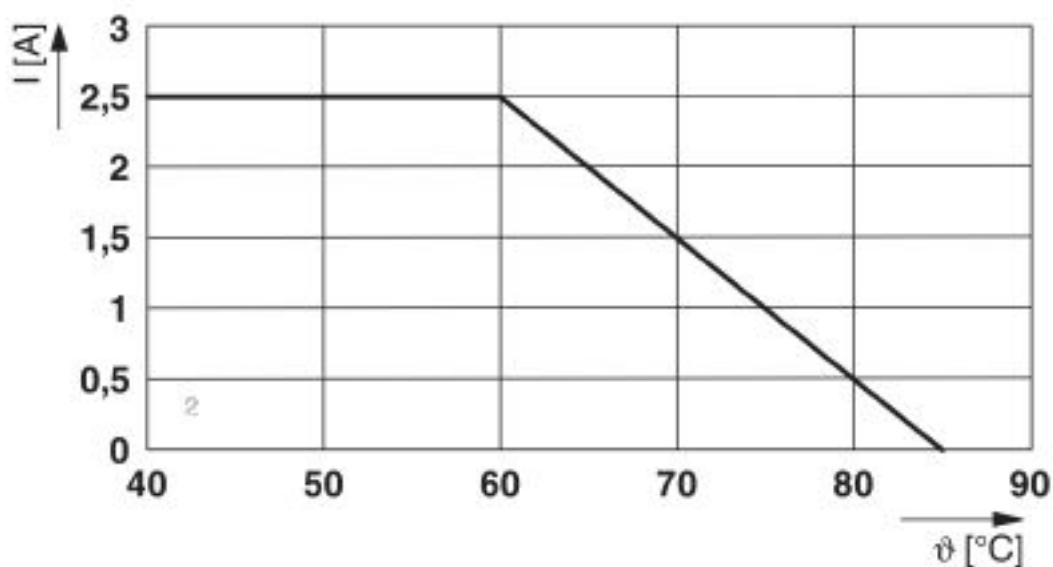
Standards/specifications	IEC 61643-21 2000 + corrigendum 2001 + A1:2008, modified + A2:2012
	EN 61643-21 2001 + A1:2009 + A2:2013

Environmental Product Compliance

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

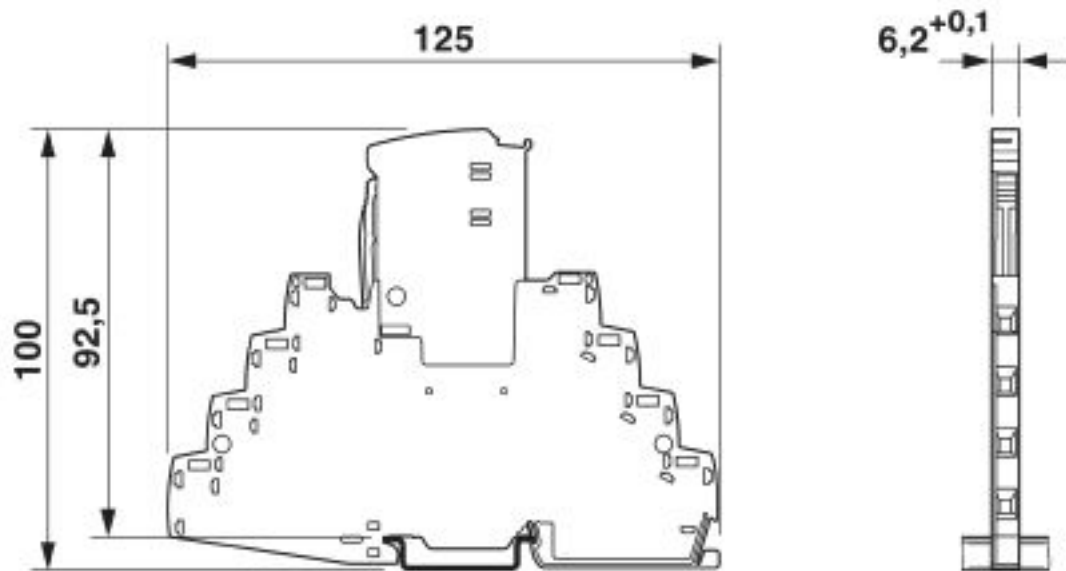
Drawings

Diagram

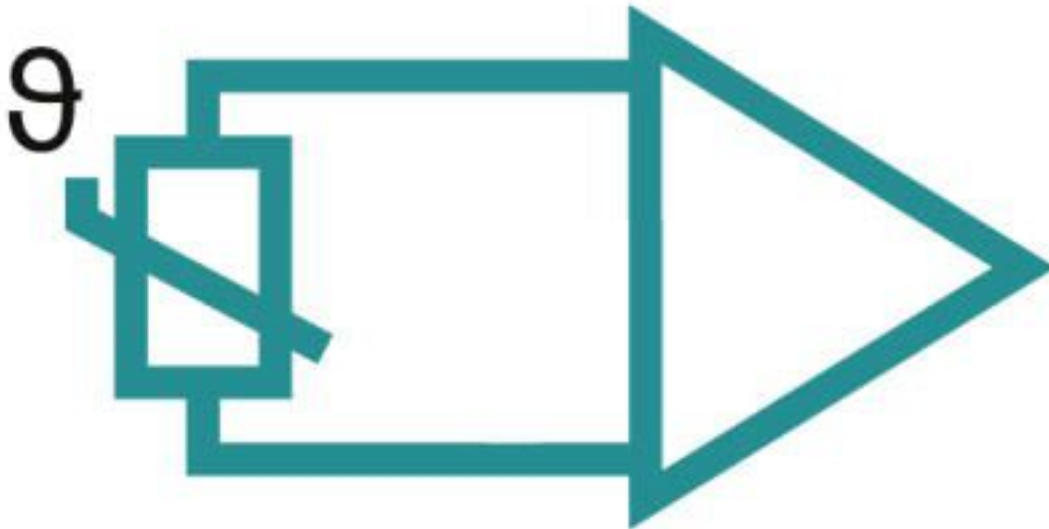


Surge protection device - TTC-6P-4-24DC-PT-I - 1106014

Dimensional drawing

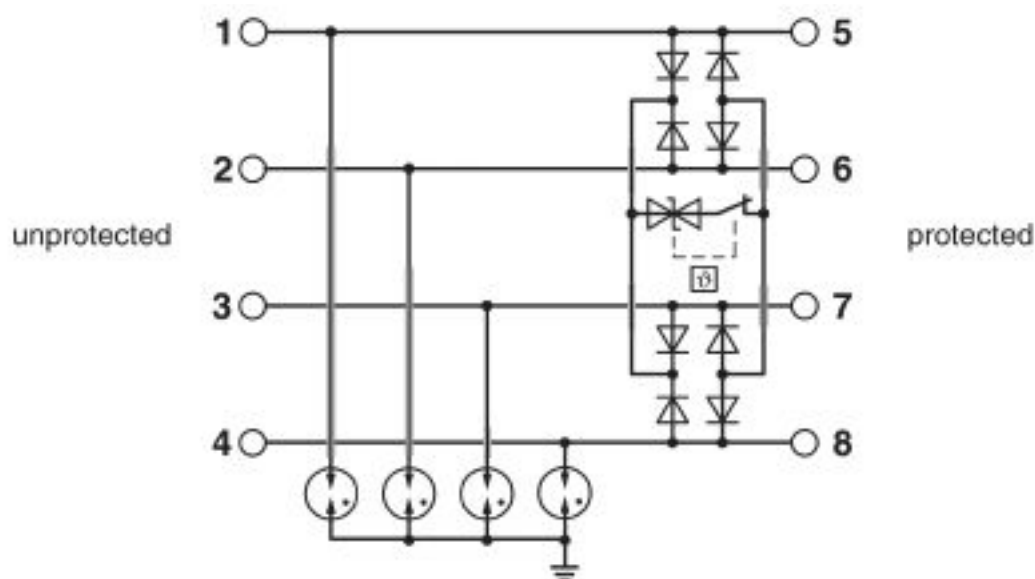


Pictogram



Surge protection device - TTC-6P-4-24DC-PT-I - 1106014

Circuit diagram



Classifications

eCl@ss

eCl@ss 10.0.1	27130807
eCl@ss 8.0	27130807
eCl@ss 9.0	27130807

ETIM

ETIM 5.0	EC000943
----------	----------

Approvals

Approvals

Approvals

UL Listed

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approval details

UL Listed



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 138168

Surge protection device - TTC-6P-4-24DC-PT-I - 1106014

Accessories

Accessories

Labeled terminal marker

Zack Marker strip, flat - ZBF 6 CUS - 0825027



Zack Marker strip, flat, Strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 6.2 mm, lettering field size: 5.15 x 6.15 mm, Number of individual labels: 10

Zack Marker strip, flat - ZBF 6,QR:FORTL.ZAHLEN - 0808765



Zack Marker strip, flat, Strip, white, labeled, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snap into flat marker groove, for terminal block width: 6.2 mm, lettering field size: 5.15 x 6.15 mm, Number of individual labels: 10

Marker pen

Marker pen - X-PEN 0,35 - 0811228



Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm

Terminal marking

Zack Marker strip, flat - ZBF 6:UNBEDRUCKT - 0808710



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into flat marker groove, for terminal block width: 6.2 mm, lettering field size: 5.15 x 6.15 mm, Number of individual labels: 10

Zack Marker strip, flat - ZBF 6/WH-100:UNBEDRUCKT - 0808736



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into flat marker groove, for terminal block width: 6.2 mm, lettering field size: 5.15 x 6.15 mm, Number of individual labels: 10

Surge protection device - TTC-6P-4-24DC-PT-I - 1106014

Accessories

Additional products

Remote signaling set - TTC-6-FMRS-PT - 2907811



Module set for the optical monitoring and floating remote signaling of neighboring surge protective devices of the TERMITRAB complete product range.

Shield connection - SSA 3-6 - 2839295



Shield fast connection for 3 ... 6 mm cable diameter. Potential connecting cable: 200 mm, 1 mm², color: black

Shield connection - SSA 5-10 - 2839512



Shield fast connection for 5 ... 10 mm cable diameter. Potential connecting cable: 200 mm, 1 mm², color: black

Spare parts

Surge protection plug - TTC-6P-4-24DC-I-P - 1106015



Surge protection plug with integrated status indicator on the module for a 4-wire floating signal circuit with a high nominal current. Nominal voltage: 24 V DC

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Phoenix Contact:](#)

[1106014](#)