

## PCB terminal block - PT 1,5/ 2-5,0-V - 1935310

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PCB terminal block, nominal current: 17.5 A, rated voltage (III/2): 400 V, nominal cross section: 1.5 mm<sup>2</sup>, pitch: 5 mm, number of positions: 2, connection method: Screw connection with wire protector, mounting: Wave soldering, conductor/PCB connection direction: 90 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm



The figure shows a 10-position version of the product

### Your advantages

- ✓ Well-known connection principle allows worldwide use
- ✓ Low temperature rise, thanks to maximum contact force
- ✓ High terminal block capacity thanks to rectangular terminal block space
- ✓ Allows connection of two conductors
- ✓ The latching on the side enables various numbers of positions to be combined



### Key Commercial Data

|              |                                                                                      |
|--------------|--------------------------------------------------------------------------------------|
| Packing unit | 250 pc                                                                               |
| GTIN         |  |
| GTIN         | 4017918923907                                                                        |

### Technical data

#### Item properties

|                           |                                      |
|---------------------------|--------------------------------------|
| Brief article description | PCB terminal block                   |
| Range of articles         | PT 1,5/..-V                          |
| Pitch                     | 5 mm                                 |
| Number of positions       | 2                                    |
| Connection method         | Screw connection with wire protector |
| Drive form screw head     | Philipps recess with slotted Torx    |
| Screw thread              | M2,6                                 |
| Mounting type             | Wave soldering                       |
| Pin layout                | Linear pinning                       |
| Number of levels          | 1                                    |

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## Technical data

### Item properties

|                       |   |
|-----------------------|---|
| Number of connections | 2 |
| Number of potentials  | 2 |

### Electrical parameters

|                             |        |
|-----------------------------|--------|
| Nominal current             | 17.5 A |
| Nom. voltage                | 400 V  |
| Rated voltage               | 250 V  |
| Rated voltage (III/2)       | 400 V  |
| Rated voltage (II/2)        | 630 V  |
| Rated surge voltage (III/3) | 4 kV   |
| Rated surge voltage (III/2) | 4 kV   |
| Rated surge voltage (II/2)  | 4 kV   |

### Connection capacity

|                                                                                           |                                      |
|-------------------------------------------------------------------------------------------|--------------------------------------|
| Connection method                                                                         | Screw connection with wire protector |
| pluggable                                                                                 | no                                   |
| Conductor cross section solid                                                             | 0.2 mm² ... 2.5 mm²                  |
| Conductor cross section flexible                                                          | 0.2 mm² ... 2.5 mm²                  |
| Conductor cross section AWG / kcmil                                                       | 26 ... 14                            |
| Conductor cross section flexible, with ferrule without plastic sleeve                     | 0.25 mm² ... 1.5 mm²                 |
| Conductor cross section, flexible, with ferrule, with plastic sleeve                      | 0.25 mm² ... 1.5 mm²                 |
| 2 conductors with same cross section, solid                                               | 0.2 mm² ... 0.75 mm²                 |
| 2 conductors with same cross section, flexible                                            | 0.2 mm² ... 0.75 mm²                 |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve       | 0.25 mm² ... 0.34 mm²                |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² ... 0.75 mm²                 |
| Stripping length                                                                          | 5 mm                                 |
| Torque                                                                                    | 0.35 Nm ... 0.4 Nm                   |

### Material data - contact

|                                             |                                                                                   |
|---------------------------------------------|-----------------------------------------------------------------------------------|
| Note                                        | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/ JEDEC JESD 201 |
| Contact material                            | Cu alloy                                                                          |
| Metal surface terminal point (top layer)    | Tin (3 - 12 µm Sn)                                                                |
| Metal surface terminal point (middle layer) | Nickel (1.5 - 4 µm Ni)                                                            |
| Metal surface soldering area (top layer)    | Tin (3 - 12 µm Sn)                                                                |
| Metal surface soldering area (middle layer) | Nickel (1.5 - 4 µm Ni)                                                            |

### Material data - housing

|                            |              |
|----------------------------|--------------|
| Housing color              | green (6021) |
| Insulating material        | PA           |
| Insulating material group  | I            |
| CTI according to IEC 60112 | 850          |

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## Technical data

### Material data - housing

|                                                                   |        |
|-------------------------------------------------------------------|--------|
| Flammability rating according to UL 94                            | V0     |
| Glow wire flammability index GWFI according to EN 60695-2-12      | 850    |
| Glow wire ignition temperature GWIT according to EN 60695-2-13    | 775    |
| Temperature for the ball pressure test according to EN 60695-10-2 | 125 °C |

### Dimensions for the product

|                             |         |
|-----------------------------|---------|
| Length [ l ]                | 11.4 mm |
| Width [ w ]                 | 10 mm   |
| Height [ h ]                | 12.5 mm |
| Pitch                       | 5 mm    |
| Height (without solder pin) | 9 mm    |
| Solder pin [P]              | 3.5 mm  |
| Pin spacing                 | 5 mm    |
| Pin dimensions              | ø 1 mm  |

### Dimensions for PCB design

|               |        |
|---------------|--------|
| Hole diameter | 1.3 mm |
| Pin spacing   | 5 mm   |

### Packaging information

|                            |                     |
|----------------------------|---------------------|
| Type of packaging          | packed in cardboard |
| Pieces per package         | 250                 |
| Denomination packing units | Pcs.                |

### General product information

|              |                                                                                                                                                                                                                                                                                                                                                                    |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type of note | Note on application                                                                                                                                                                                                                                                                                                                                                |
| Note         | For safe conductor connection, always adhere to a defined tightening torque. Particularly in the case of PCB terminal blocks with two or three positions, the individual solder pin for each contact point cannot compensate for this. That is why the terminal blocks must be supported during conductor connection (held with one hand, support on the housing). |

### Electrical tests

|                             |                     |
|-----------------------------|---------------------|
| Rated current               | 17.5 A              |
| Conductor cross section     | 2.5 mm <sup>2</sup> |
| Rated voltage (III/2)       | 400 V               |
| Rated surge voltage (III/2) | 4 kV                |

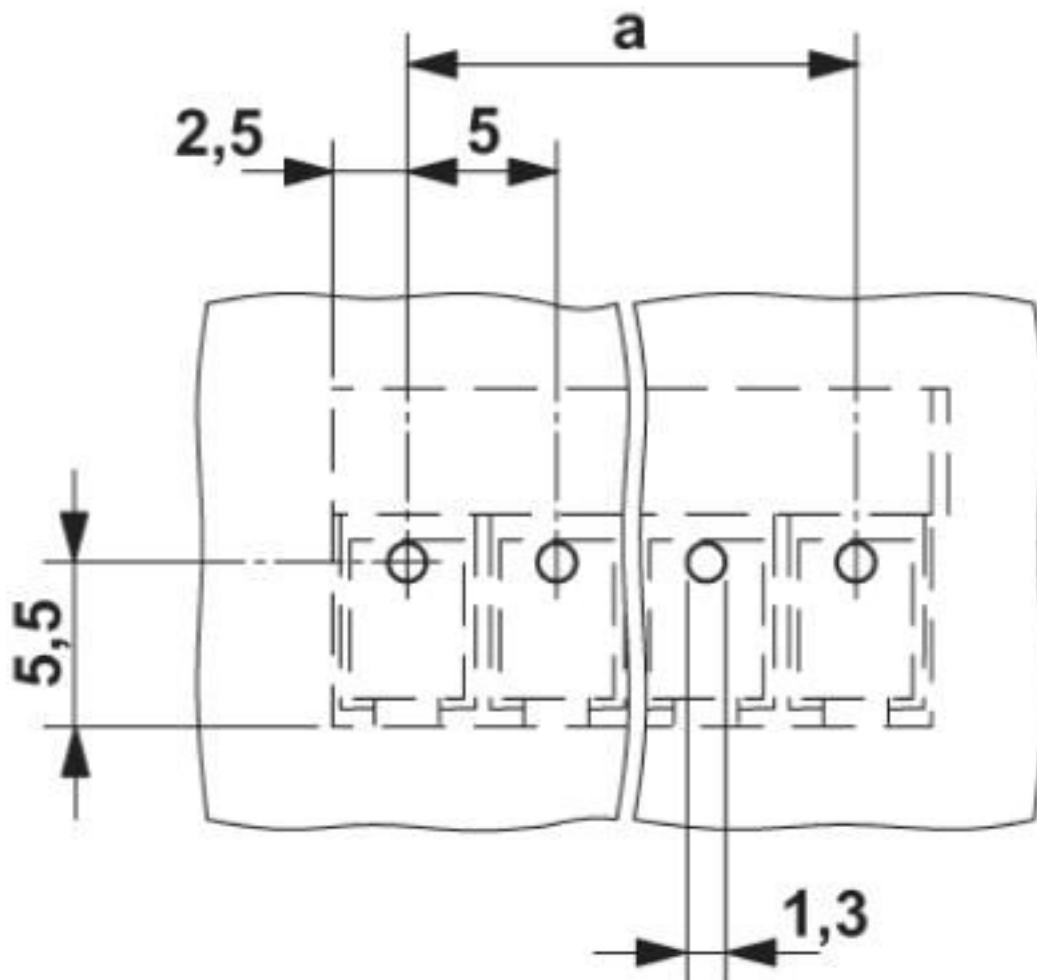
### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| REACH SVHC | Lead 7439-92-1                                                                                      |
| China RoHS | Environmentally Friendly Use Period = 50 years                                                      |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Drawings

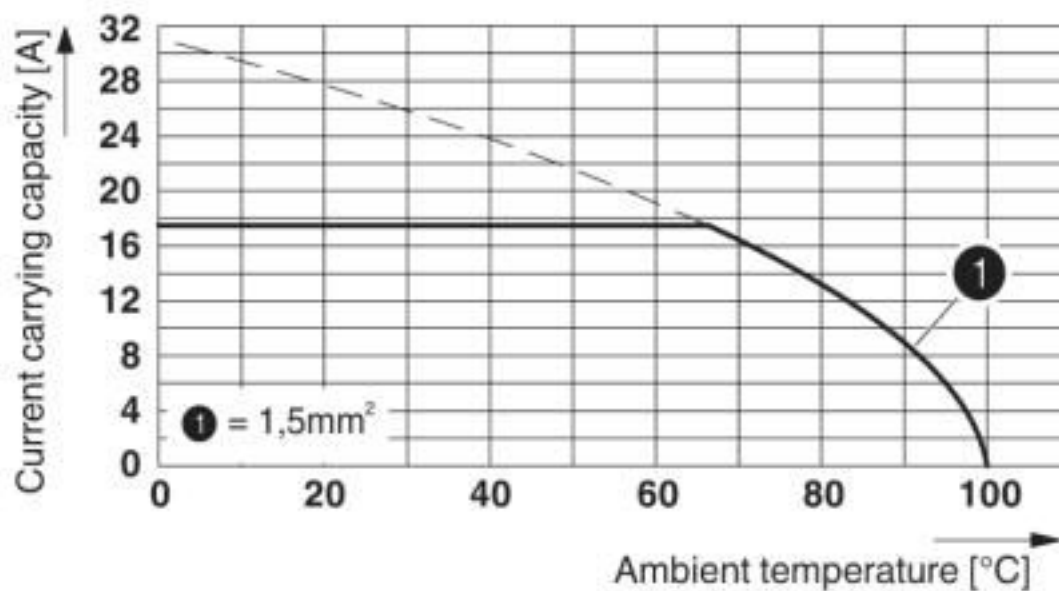
## PCB terminal block - PT 1,5/ 2-5,0-V - 1935310

Drilling diagram



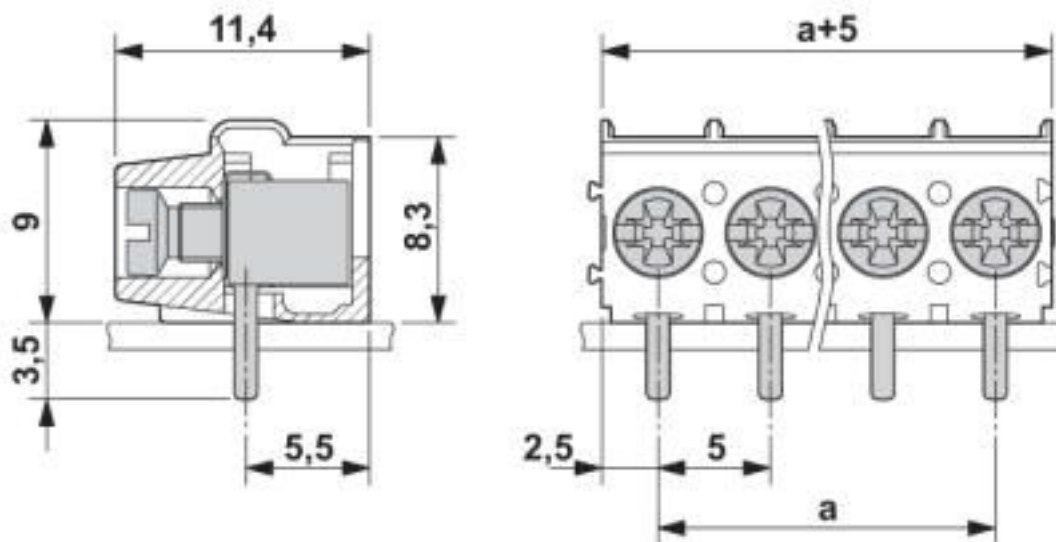
## PCB terminal block - PT 1,5/ 2-5,0-V - 1935310

Diagram



Derating diagram for 5 pins;reduction factor=1

Dimensional drawing



### Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27440401 |
| eCl@ss 4.0    | 27260700 |
| eCl@ss 4.1    | 27141100 |
| eCl@ss 5.0    | 27141100 |

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### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.1 | 27261100 |
| eCl@ss 6.0 | 27261100 |
| eCl@ss 7.0 | 27440401 |
| eCl@ss 8.0 | 27440401 |
| eCl@ss 9.0 | 27440401 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001121 |
| ETIM 4.0 | EC002643 |
| ETIM 5.0 | EC002643 |
| ETIM 6.0 | EC002643 |
| ETIM 7.0 | EC002643 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211801 |
| UNSPSC 7.0901 | 39121432 |
| UNSPSC 11     | 34131203 |
| UNSPSC 12.01  | 39121432 |
| UNSPSC 13.2   | 39121432 |
| UNSPSC 18.0   | 39121432 |
| UNSPSC 19.0   | 39121432 |
| UNSPSC 20.0   | 39121432 |
| UNSPSC 21.0   | 39121432 |

### Approvals

#### Approvals

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SEV / VDE Gutachten mit Fertigungsüberwachung / EAC / cULus Recognized / IECCEB Scheme

#### Ex Approvals

#### Approval details

|                    |                                                                                     |                                                                       |         |
|--------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------|
| SEV                |  | <a href="https://www.eurofins.ch/de/">https://www.eurofins.ch/de/</a> | IK-4496 |
| Nominal voltage UN | 250 V                                                                               |                                                                       |         |

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### Approvals

|                                |         |
|--------------------------------|---------|
|                                |         |
| Nominal current I <sub>N</sub> | 17.5 A  |
| mm <sup>2</sup> /AWG/kcmil     | 0.2-1.5 |

|                                            |                                                                                   |                                                                                                                                                                                                                |          |
|--------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| VDE Gutachten mit<br>Fertigungsüberwachung |  | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/<br/>VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40031691 |
|                                            |                                                                                   |                                                                                                                                                                                                                |          |
| Nominal voltage U <sub>N</sub>             | 250 V                                                                             |                                                                                                                                                                                                                |          |
| Nominal current I <sub>N</sub>             | 24 A                                                                              |                                                                                                                                                                                                                |          |
| mm <sup>2</sup> /AWG/kcmil                 | 0.2-2.5                                                                           |                                                                                                                                                                                                                |          |

|     |                                                                                   |         |
|-----|-----------------------------------------------------------------------------------|---------|
| EAC |  | B.01687 |
|-----|-----------------------------------------------------------------------------------|---------|

|                                |                                                                                     |                                                                                                                                                       |                 |
|--------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| cULus Recognized               |  | <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> | E60425-20030211 |
|                                | B                                                                                   | D                                                                                                                                                     |                 |
| Nominal voltage U <sub>N</sub> | 300 V                                                                               | 300 V                                                                                                                                                 |                 |
| Nominal current I <sub>N</sub> | 18 A                                                                                | 10 A                                                                                                                                                  |                 |
| mm <sup>2</sup> /AWG/kcmil     | 26-12                                                                               | 26-12                                                                                                                                                 |                 |

|                                |                                                                                     |                                                           |          |
|--------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------|----------|
| IECEE CB Scheme                |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | CH-10786 |
|                                |                                                                                     |                                                           |          |
| Nominal voltage U <sub>N</sub> | 250 V                                                                               |                                                           |          |
| Nominal current I <sub>N</sub> | 17.5 A                                                                              |                                                           |          |
| mm <sup>2</sup> /AWG/kcmil     | 0.2-1.5                                                                             |                                                           |          |

### Accessories

#### Accessories

#### Crimping tool

Crimping pliers - CRIMPFOX CENTRUS 6S - 1213144



Crimping pliers, for uninsulated and insulated ferrules, DIN 46228 Part 1 and 4, from 0.14 mm<sup>2</sup> ... 6 mm<sup>2</sup>, also for TWIN ferrules up to 2 x 4 mm<sup>2</sup>, automatic cross section adjustment, lateral insertion, equipped with fall protection

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### Accessories

Crimping pliers - CRIMPFOX 6 - 1212034



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.25 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>, lateral entry, trapezoidal crimp

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### Labeled terminal marker

Marker card - SK 5/3,8:FORTL.ZAHLEN - 0804183



Marker card, Card, white, labeled, horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... (99)100, mounting type: adhesive, for terminal block width: 5 mm, lettering field size: 5 x 3.8 mm

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### Screwdriver tools

Screwdriver - SZS 0,6X3,5 - 1205053



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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