

## PCB terminal block - PT 2,5/ 4-5,0-V - 1987740

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>)

PCB terminal block, nominal current: 32 A, rated voltage (III/2): 400 V, nominal cross section: 2.5 mm<sup>2</sup>, pitch: 5 mm, number of positions: 4, connection method: Screw connection with wire protector, mounting: Wave soldering, conductor/PCB connection direction: 90 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 4.1 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   |
| Minimum order quantity | 250 pc   |
| GTIN                   |  |
| GTIN                   | 4017918973216  |

### Technical data

#### Item properties

|                           |                                      |
|---------------------------|--------------------------------------|
| Brief article description | PCB terminal block                   |
| Range of articles         | PT 2,5/..-V                          |
| Pitch                     | 5 mm                                 |
| Number of positions       | 4                                    |
| Connection method         | Screw connection with wire protector |
| Screw thread              | M3                                   |
| Mounting type             | Wave soldering                       |
| Pin layout                | Linear pinning                       |
| Number of levels          | 1                                    |

# PCB terminal block - PT 2,5/ 4-5,0-V - 1987740

## Technical data

### Item properties

|                       |   |
|-----------------------|---|
| Number of connections | 4 |
| Number of potentials  | 4 |

### Electrical parameters

|                             |       |
|-----------------------------|-------|
| Nominal current             | 32 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   | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>    |
| Conductor cross section flexible  | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>    |
| Conductor cross section AWG / kcmil   | 20 ... 10                                    |
| Conductor cross section flexible, with ferrule without plastic sleeve                     | 0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>  |
| Conductor cross section, flexible, with ferrule, with plastic sleeve                      | 0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, solid   | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, flexible  | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve       | 0.5 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>  |
| Stripping length  | 6.5 mm                                       |
| Torque  | 0.45 Nm ... 0.5 Nm                           |

### Material data - contact

|   |   |
|---|---|
| Note  | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/ JEDEC JESD 201 |
| Contact material                            | Cu alloy  |
| Surface characteristics                     | Tin-plated  |
| 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            |

# PCB terminal block - PT 2,5/ 4-5,0-V - 1987740

## Technical data

### Material data - housing

|   |        |
|---|--------|
| CTI according to IEC 60112  | 600    |
| 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

|                             |                                     |
|-----------------------------|-------------------------------------|
| Caption                     | The figure shows the 5-pos. version |
| Length [ l ]                | 13.5 mm                             |
| Width [ w ]                 | 20 mm                               |
| Height [ h ]                | 13.1 mm                             |
| Pitch                       | 5 mm                                |
| Height (without solder pin) | 9 mm                                |
| Solder pin [P]              | 4.1 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). |

### Ambient conditions

|   |   |
|---|---|
| Ambient temperature (storage/transport) | -40 °C ... 70 °C  |
| Ambient temperature (assembly)          | -5 °C ... 100 °C  |
| Ambient temperature (operation)         | -40 °C ... 100 °C (Depending on the current carrying capacity/derating curve) |

### Electrical tests

|                             |                   |
|-----------------------------|-------------------|
| Rated current               | 32 A              |
| Conductor cross section     | 4 mm <sup>2</sup> |
| Rated voltage (III/2)       | 400 V             |
| Rated surge voltage (III/2) | 4 kV              |

## PCB terminal block - PT 2,5/ 4-5,0-V - 1987740

### Technical data

#### Standards and Regulations

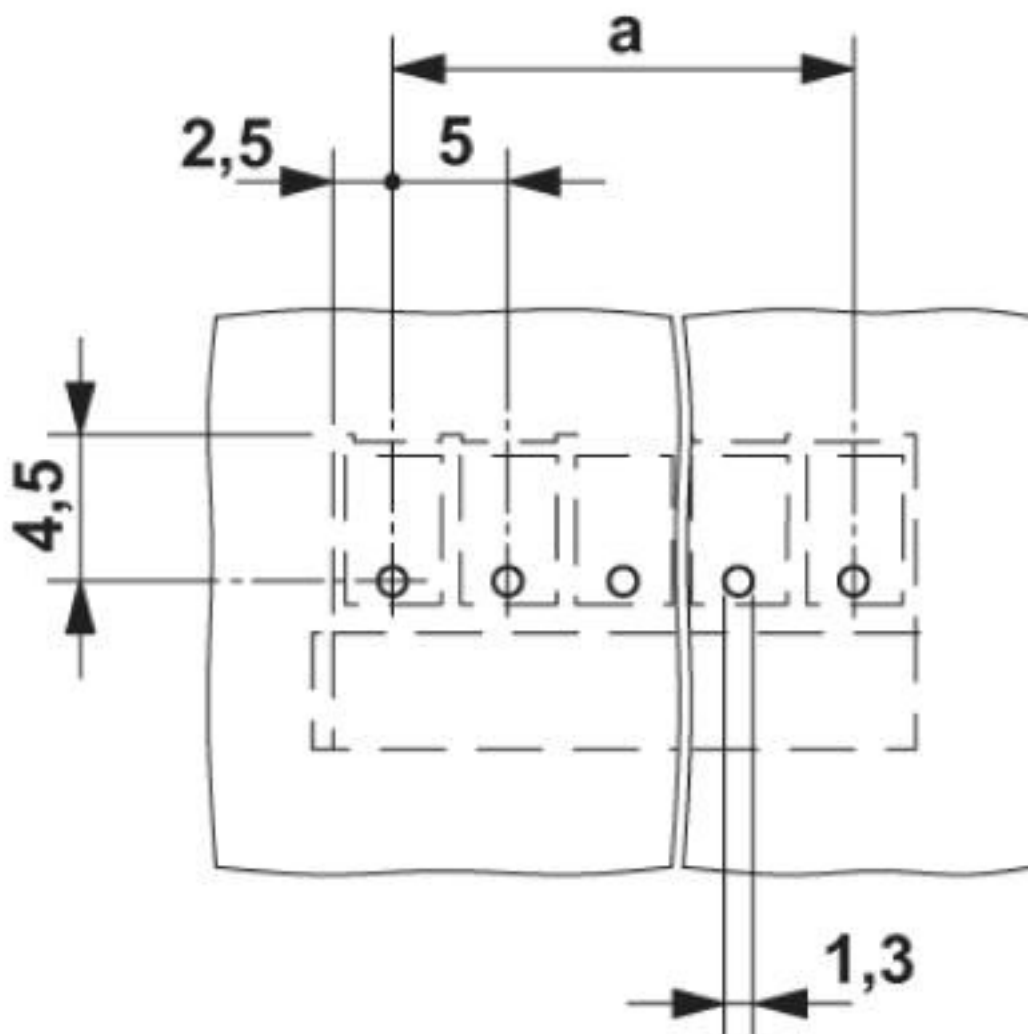
|  |        |
|--|--------|
| Connection in acc. with standard       | EN-VDE |
|  | CUL    |
| Flammability rating according to UL 94 | V0     |

#### 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" |

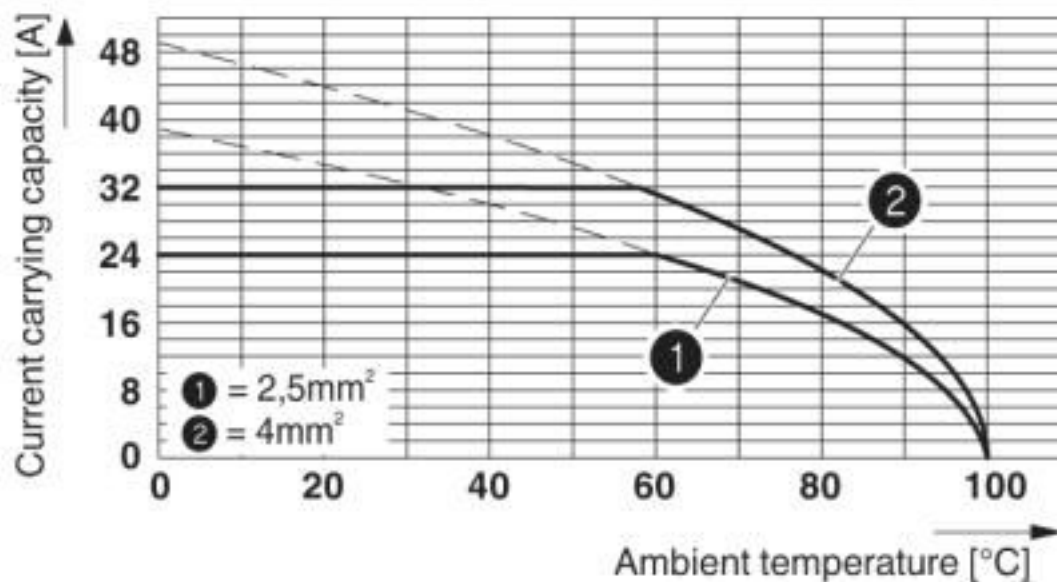
### Drawings

Drilling diagram



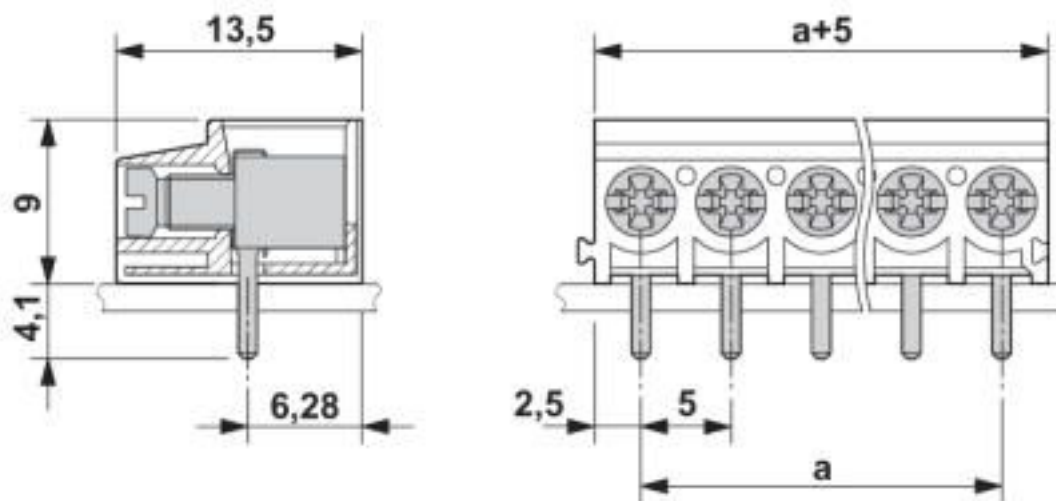
## PCB terminal block - PT 2,5/ 4-5,0-V - 1987740

Diagram



Derating diagram for 5 pins;reduction factor=1

Dimensional drawing



The figure shows the 5-pos. version

### Classifications

eCl@ss

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

# PCB terminal block - PT 2,5/ 4-5,0-V - 1987740

## 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

#### Approvals

CCA / IEC EE CB Scheme / VDE Gutachten mit Fertigungsüberwachung / EAC / cULus Recognized

#### Ex Approvals


### Approval details


|                            |           |
|----------------------------|-----------|
| CCA                        | DE1 34001 |
| Nominal voltage UN         | 250 V     |
| Nominal current IN         | 32 A      |
| mm <sup>2</sup> /AWG/kcmil | 0.5-4     |


## PCB terminal block - PT 2,5/ 4-5,0-V - 1987740

### Approvals

|                    |                     |   |           |
|--------------------|---------------------|---|-----------|
| IECEE CB Scheme    | <b>CB</b><br>scheme | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-63844 |
| Nominal voltage UN | 250 V               |   |           |
| Nominal current IN | 32 A                |   |           |
| mm²/AWG/kcmil      | 0.5-4               |   |           |

|  |   |  |          |
|--|---|--|----------|
| 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> | 40029839 |
| Nominal voltage UN                         | 250 V   |  |          |
| Nominal current IN                         | 32 A  |  |          |
| mm²/AWG/kcmil                              | 0.5-4   |  |          |

|     |   |         |
|-----|---|---------|
| 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 UN | 300 V   | 300 V   |                 |
| Nominal current IN | 20 A  | 10 A  |                 |
| mm²/AWG/kcmil      | 20-12   | 20-12   |                 |

### Accessories

#### Accessories

#### 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

#### Screwdriver tools

## PCB terminal block - PT 2,5/ 4-5,0-V - 1987740

### Accessories

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

---

Phoenix Contact 2020 © - 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>



# Mouser Electronics

Authorized Distributor

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

Phoenix Contact:

1987740