# PCB terminal block - PT 1,5/ 2-5,0-H - 1935161

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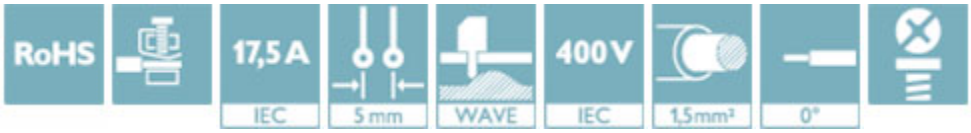
PCB terminal block, nominal current: 17.5 A, nom. voltage: 400 V, pitch: 5 mm, number of positions: 2, connection method: Screw connection with wire protector, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green



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 | 1 pc |
| Minimum order quantity | 250 pc |
| GTIN | 4 017918 916930 |
| GTIN | 4017918916930 |
| Weight per Piece (excluding packing) | 2.000 g |
| Custom tariff number | 85369010 |
| Country of origin | China |

## Technical data

### Item properties

| | |
|---|---|
| Brief article description | PCB terminal block |
| Range of articles | PT 1,5/..-H |
| Pitch | 5 mm |

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## Technical data

### Item properties

| | |
|---|---|
| Number of positions | 2 |
| Connection method | Screw connection with wire protector |
| Drive form screw head | Philipps recess with slotted Torx (H1L) |
| Screw thread | M2,6 |
| Mounting type | Wave soldering |
| Pin layout | Linear pinning |
| Number of levels | 1 |
| Number of connections | 2 |
| Number of potentials | 2 |

### Electrical parameters

| | |
|---|---|
| Rated current | 17.5 A |
| Rated insulation voltage (III/2) | 400 V |
| Rated surge voltage (III/2) | 4 kV |

### Connection capacity

| | |
|---|---|
| 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, stranded, ferrules without plastic sleeve | 0.25 mm² ... 0.34 mm² |
| 2 conductors with same cross section, stranded, with TWIN ferrules 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 |
| 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

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## Technical data

### Material data - housing

| | |
|---|---|
| Insulating material | PA |
| Insulating material group | I |
| 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

| | |
|---|---|
| Length [ l ] | 9 mm |
| Width [ w ] | 10 mm |
| Height [ h ] | 14.9 mm |
| Pitch | 5 mm |
| Height (without solder pin) | 11.4 mm |
| Solder pin [P] | 3.5 mm |
| Pin spacing | 5 mm |
| Pin dimensions | ø 1 mm |
| Dimension a | 5 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). |
| Type of note | Note on application |
| Note | When using ferrules and taking the specified stripping length into consideration, 250 V is only achieved in conjunction with overvoltage category/pollution degree II/2. |

### Ambient conditions

| | |
|---|---|
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |

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## Technical data

### Ambient conditions

| | |
|---|---|
| Ambient temperature (assembly) | -5 °C ... 100 °C |
| Ambient temperature (operation) | -40 °C (dependent on the derating curve) |

### Termination and connection method

| | |
|---|---|
| Test for conductor damage and slackening | IEC 60999-1:1999-11 |
| | Test passed |

### Pull-out test

| | |
|---|---|
| Pull-out test | IEC 60999-1:1999-11 |
| | Test passed |
| Conductor cross section / conductor type / tensile force | 0.2 mm² / flexible / > 10 N |
| | 0.2 mm² / solid / > 10 N |
| | 2.5 mm² / flexible / > 50 N |
| | 2.5 mm² / solid / > 50 N |

### Electrical tests

| | |
|---|---|
| Rated current | 17.5 A |
| Rated insulation voltage (III/2) | 400 V |
| Rated surge voltage (III/2) | 4 kV |

### Air clearances and creepage distances

| | |
|---|---|
| Insulating material group | I |
| Rated insulation voltage (III/3) | 250 V |
| Rated insulation voltage (III/2) | 400 V |
| Rated insulation 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 |

### Current carrying capacity / derating curves

### Standards and Regulations

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

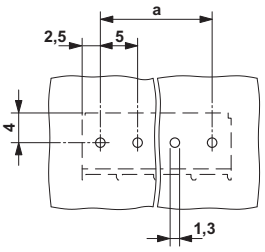
### Environmental Product Compliance

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

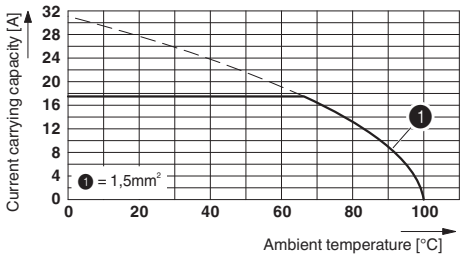
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## Drawings

Drilling diagram

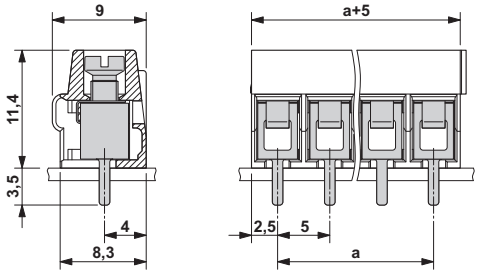



Diagram




Type: PT 1,5/...-5,0-H

Dimensional drawing




## Classifications

### eCl@ss

| | |
|---|---|
| eCl@ss 4.0 | 272607xx |
| eCl@ss 4.1 | 27141109 |
| eCl@ss 5.0 | 27141190 |
| 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 |

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## Classifications

### UNSPSC

| | |
|---|---|
| UNSPSC 6.01 | 30211801 |
| UNSPSC 7.0901 | 39121432 |
| UNSPSC 11 | 34131203 |
| UNSPSC 12.01 | 39121432 |
| UNSPSC 13.2 | 39121432 |

## Approvals

### Approvals

Approvals

IECEE CB Scheme / SEV / VDE Gutachten mit Fertigungsüberwachung / EAC / cULus Recognized / CCA

Ex Approvals

### Approval details

| IECEE CB Scheme | | http://www.iecee.org/ | DE1-61760 |
|---|---|---|---|

| | |
|---|---|
| Nominal voltage UN | 250 V |
| Nominal current IN | 24 A |
| mm²/AWG/kcmil | 0.2-2.5 |

| SEV | | https://www.electrosuisse.ch/de/meta/shop/produktezertifikate.html | IK-3558-M2 |
|---|---|---|---|

| | |
|---|---|
| Nominal voltage UN | 250 V |
| Nominal current IN | 16 A |
| mm²/AWG/kcmil | 2.5 |

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## Approvals

| | | | |
|---|---|---|---|
| VDE Gutachten mit Fertigungsüberwachung | VDE | http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx | 40031691 |

| | |
|---|---|
| Nominal voltage UN | 250 V |
| Nominal current IN | 24 A |
| mm²/AWG/kcmil | 0.2-2.5 |

| | | |
|---|---|---|
| EAC | EAC | B.01742 |

| | | | |
|---|---|---|---|
| cULus Recognized | c UL us | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | E60425-20030211 |

| | D | B |
|---|---|---|
| Nominal voltage UN | 300 V | 300 V |
| Nominal current IN | 10 A | 18 A |
| mm²/AWG/kcmil | 26-12 | 26-12 |

| CCA | CCA/DE1 34714 |
|---|---|
| | |
| Nominal voltage UN | 250 V |
| Nominal current IN | 24 A |
| mm²/AWG/kcmil | 0.2-2.5 |

## 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 mm² … 6 mm², also for TWIN ferrules up to 2 x 4 mm², 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 mm² ... 6.0 mm², 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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