

## PCB terminal block - PT 1,5/ 3-PH-3,5 - 1984329

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PCB connector, nominal current: 8 A, rated voltage (III/2): 200 V, nominal cross section: 1.5 mm<sup>2</sup>, number of positions: 3, pitch: 3.5 mm, connection method: Screw connection with wire protector, color: green, contact surface: Tin



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         | 4017918935887 |

### Technical data

#### Item properties

|                           |                                      |
|---------------------------|--------------------------------------|
| Brief article description | PCB connector                        |
| Plug-in system            | COMBICON COMPACT PST 1               |
| Type of contact           | Female connector                     |
| Range of articles         | PT 1,5/..-PH                         |
| Pitch                     | 3.5 mm                               |
| Number of positions       | 3                                    |
| Connection method         | Screw connection with wire protector |
| Screw thread              | M2                                   |
| Locking                   | without                              |
| Number of levels          | 1                                    |

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## Technical data

### Item properties

|                       |   |
|-----------------------|---|
| Number of connections | 3 |
| Number of potentials  | 3 |

### Electrical parameters

|                             |        |
|-----------------------------|--------|
| Nominal current             | 8 A    |
| Nom. voltage                | 200 V  |
| Rated voltage               | 160 V  |
| Rated voltage (III/2)       | 200 V  |
| Rated voltage (II/2)        | 400 V  |
| Rated surge voltage (III/3) | 2.5 kV |
| Rated surge voltage (III/2) | 2.5 kV |
| Rated surge voltage (II/2)  | 2.5 kV |

### Connection capacity

|  |   |
|--|---|
| Connection method  | Screw connection with wire protector          |
| pluggable  | Yes   |
| Conductor cross section solid  | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>   |
| Conductor cross section flexible                                     | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>   |
| Conductor cross section AWG / kcmil                                  | 26 ... 16                                     |
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> |
| 2 conductors with same cross section, solid                          | 0.2 mm <sup>2</sup> ... 0.34 mm <sup>2</sup>  |
| 2 conductors with same cross section, flexible                       | 0.2 mm <sup>2</sup> ... 0.5 mm <sup>2</sup>   |
| Stripping length   | 5 mm  |
| Torque   | 0.22 Nm ... 0.25 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                  | hot-dip tin-plated  |
| Metal surface terminal point (top layer) | Tin (4 - 8 µm Sn)   |
| Metal surface contact area (top layer)   | Tin (4 - 8 µm Sn)   |

### Material data - housing

|   |              |
|---|--------------|
| Housing color   | green (6021) |
| 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

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## Technical data

### Dimensions for the product

|                             |         |
|-----------------------------|---------|
| Length [ l ]                | 11 mm   |
| Width [ w ]                 | 10.5 mm |
| Height [ h ]                | 11 mm   |
| Pitch                       | 3.5 mm  |
| Height (without solder pin) | 11 mm   |

### Packaging information

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

### Ambient conditions

|   |   |
|---|---|
| Ambient temperature (storage/transport) | -40 °C ... 70 °C                                    |
| Ambient temperature (assembly)          | -5 °C ... 100 °C                                    |
| Ambient temperature (operation)         | -40 °C ... 100 °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 mm <sup>2</sup> / solid / > 10 N    |
|  | 0.2 mm <sup>2</sup> / flexible / > 10 N |
|  | 1.5 mm <sup>2</sup> / solid / > 40 N    |
|  | 1.5 mm <sup>2</sup> / flexible / > 40 N |

### Mechanical tests according to standard

|                                     |                                    |
|-------------------------------------|------------------------------------|
| Test specification                  | IEC 61984                          |
| Visual inspection                   | IEC 60512-1-1:2002-02              |
| Dimension check                     | IEC 60512-1-2:2002-02              |
| Resistance of inscriptions          | IEC 60068-2-70:1995-12             |
| Insertion and withdrawal force      | IEC 60512-7:1993-08                |
| Insertion strength per pos. approx. | 4 N                                |
| Withdraw strength per pos. approx.  | 4 N                                |
| Polarization and coding             | IEC 60512-7:1993-08 (Polarization) |
| Contact holder in insert            | IEC 60512-8:1993-01                |
| Test force per pos.                 | 20 N                               |

### Air clearances and creepage distances

|   |                     |
|---|---------------------|
| Clearances and creepage distances               | IEC 60664-1:2007-04 |
| Specification                                   | IEC 60664-1:2007-04 |
| Minimum clearance - inhomogeneous field (III/3) | 1.5 mm              |

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## Technical data

### Air clearances and creepage distances

|   |        |
|---|--------|
| Minimum clearance - inhomogeneous field (III/2) | 1.5 mm |
| Minimum clearance - inhomogeneous field (II/2)  | 1.5 mm |
| Minimum creepage distance value (III/3)         | 2 mm   |
| Minimum creepage distance value (III/2)         | 1.5 mm |
| Minimum creepage distance value (II/2)          | 2 mm   |

### Current carrying capacity / derating curves

|                  |   |
|------------------|---|
| Caption          | Type: PT 1,5/...PH-3,5<br>Tested in accordance with DIN EN 60512-5-2:2003-01<br>Reduction factor = 1<br>No. of positions: 5 |
| Reduction factor | 0.8   |
| Note             | Representation based on IEC 60512-5-2:2002-02   |
|                  | For number of positions, see diagram  |

### Mechanical tests (A)

|  |             |
|--|-------------|
| Test specification                           | IEC 61984   |
| Insertion strength per pos. approx.          | 4 N         |
| Withdraw strength per pos. approx.           | 4 N         |
| Polarization when inserted requirement >20 N | Test passed |
| Contact holder in insert requirements >20 N  | Test passed |

### Durability tests (B)

|  |                     |
|--|---------------------|
| Specification                                | IEC 60512-5:1992-08 |
| Contact resistance R <sub>1</sub>            | 1.4 mΩ              |
| Insertion/withdrawal cycles                  | 10                  |
| Contact resistance R <sub>2</sub>            | 1.5 mΩ              |
| Impulse withstand voltage at sea level       | 2.5 kV              |
| Power-frequency withstand voltage            | 2 kV                |
| Insulation resistance, neighboring positions | > 10 TΩ             |

### Thermal tests (C)

|   |                       |
|---|-----------------------|
| Specification                                   | IEC 60512-5-1:2002-02 |
| Number of positions                             | 16                    |
| Conductor cross section                         | 1.5 mm <sup>2</sup>   |
| Test current                                    | 8 A                   |
| Upper limiting temperature requirements <100 °C | Test passed           |

### Climatic tests (D)

|  |   |
|--|---|
| Specification                          | ISO 6988:1985-02  |
| Cold stress                            | -40 °C/2 h  |
| Thermal stress                         | 100 °C/168 h  |
| Corrosive stress                       | 0.2 dm <sup>3</sup> SO <sub>2</sub> on 300 dm <sup>3</sup> /40 °C/1 cycle |
| Impulse withstand voltage at sea level | 2.95 kV   |

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## Technical data

### Climatic tests (D)

|                                   |      |
|-----------------------------------|------|
| Power-frequency withstand voltage | 2 kV |
|-----------------------------------|------|

### Environmental and durability tests (E)

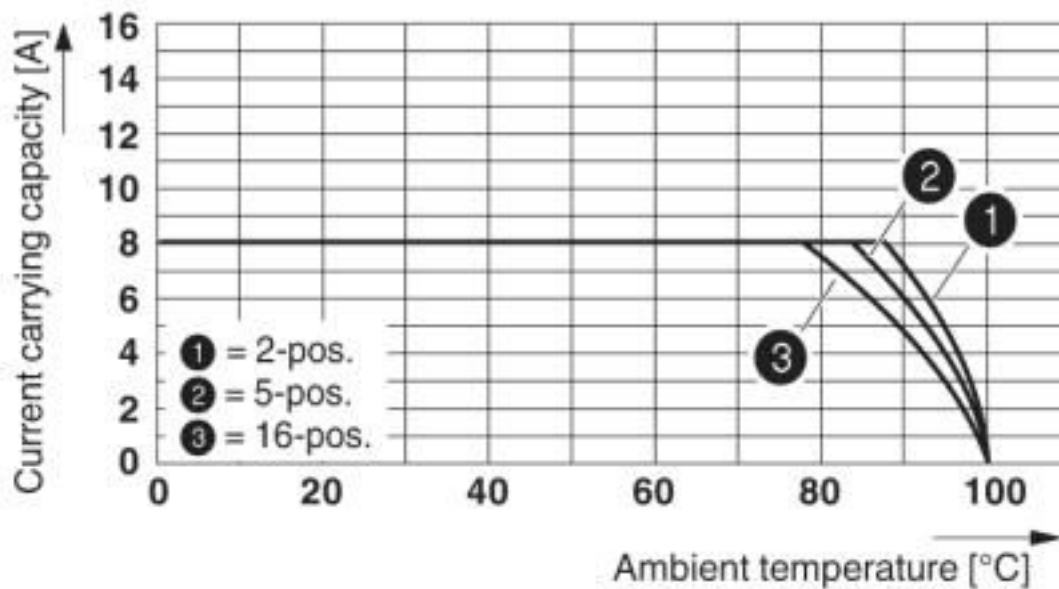
|                                       |                                     |
|---------------------------------------|-------------------------------------|
| Result, degree of protection, IP code | Finger safety with IP20 test finger |
|---------------------------------------|-------------------------------------|

### 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" |

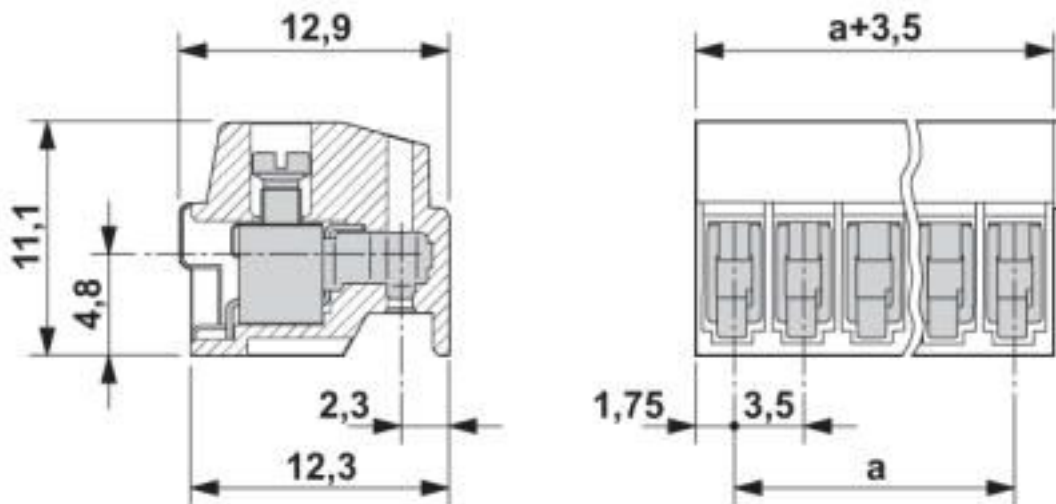
## Drawings

Diagram



# PCB terminal block - PT 1,5/ 3-PH-3,5 - 1984329

Dimensional drawing



## Classifications

### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27440309 |
| eCl@ss 4.0    | 27260700 |
| eCl@ss 4.1    | 27260700 |
| eCl@ss 5.0    | 27260700 |
| eCl@ss 5.1    | 27260700 |
| eCl@ss 6.0    | 27260700 |
| eCl@ss 7.0    | 27440309 |
| eCl@ss 8.0    | 27440309 |
| eCl@ss 9.0    | 27440309 |

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001121 |
| ETIM 4.0 | EC002638 |
| ETIM 5.0 | EC002638 |
| ETIM 6.0 | EC002638 |
| ETIM 7.0 | EC002638 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211801 |
| UNSPSC 7.0901 | 39121432 |
| UNSPSC 11     | 34131203 |
| UNSPSC 12.01  | 39121432 |
| UNSPSC 13.2   | 39121409 |
| UNSPSC 18.0   | 39121409 |
| UNSPSC 19.0   | 39121409 |

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## Classifications

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 20.0 | 39121409 |
| UNSPSC 21.0 | 39121409 |

## Approvals

### Approvals

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### Approvals


SEV / EAC / cULus Recognized / IECCEB Scheme

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### Ex Approvals


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### Approval details

|                            |   |   |         |
|----------------------------|---|---|---------|
| SEV                        |  | <a href="https://www.eurofins.ch/de/">https://www.eurofins.ch/de/</a> | IK-4496 |
| Nominal voltage UN         |   | 200 V   |         |
| Nominal current IN         |   | 8 A   |         |
| mm <sup>2</sup> /AWG/kcmil |   | 0.2-1.5   |         |

|     |   |         |
|-----|---|---------|
| 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 UN         | 300 V   | 300 V   |                 |
| Nominal current IN         | 10 A  | 10 A  |                 |
| mm <sup>2</sup> /AWG/kcmil | 26-16   | 26-16   |                 |

|                    |   |   |          |
|--------------------|---|---|----------|
| IECCEB Scheme      |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | CH-10786 |
| Nominal voltage UN |   | 200 V   |          |
| Nominal current IN |   | 8 A   |          |

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### Approvals

|                            |         |
|----------------------------|---------|
| mm <sup>2</sup> /AWG/kcmil | 0.2-1.5 |
|----------------------------|---------|

### Accessories

#### Accessories

#### Coding element

Coding profile - CP-PT 1,5 - 1985564

Coding profile, inserted into the hole on the plug, made from red insulating material, diameter: 1.35 mm



### Screwdriver tools

Screwdriver - SZS 0,4X2,5 VDE - 1205037



Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip

### Additional products

Pin strip - PST 1,0/ 3-3,5 R24 - 1720246



Pin strip, nominal current: 8 A, rated voltage (III/2): 250 V, nominal cross section: 0.5 mm<sup>2</sup>, number of positions: 3, pitch: 3.5 mm, color: black, contact surface: Tin, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 3.8 mm, The maximum current depends on the plug used. The lower of the two current values apply for plug and pin strip. The pin strip is made of highly temperature resistant plastic and is thus suitable for the reflow process.

Pin strip - PST 1,0/ 3-3,5 - 1945106



Pin strip, nominal current: 8 A, rated voltage (III/2): 250 V, nominal cross section: 0.5 mm<sup>2</sup>, number of positions: 3, pitch: 3.5 mm, color: black, contact surface: Tin, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 3.8 mm, The maximum current depends on the plug used. The lower of the two current values apply for plug and pin strip. The pin strip is made of highly temperature resistant plastic and is thus suitable for the reflow process.



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