

## PCB terminal block - PTS 1,5/ 5-5,0-H - 1792892

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PCB terminal block, nominal current: 16 A, rated voltage (III/2): 400 V, nominal cross section: 1.5 mm<sup>2</sup>, pitch: 5 mm, number of positions: 5, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 2.5 mm



The figure shows the 10-position version

### Your advantages

- Time saving push-in connection, tools not required
- Defined contact force ensures that contact remains stable over the long term
- Finger-operated release button for very convenient operation
- Quick and convenient testing using integrated test option
- Largest possible clamping space in a small component size



### Key Commercial Data

|              |               |
|--------------|---------------|
| Packing unit | 100 pc        |
| GTIN         |               |
| GTIN         | 4046356616379 |

### Technical data

#### Item properties

|                           |                           |
|---------------------------|---------------------------|
| Brief article description | PCB terminal block        |
| Range of articles         | PTS 1,5/..-H              |
| Pitch                     | 5 mm                      |
| Number of positions       | 5                         |
| Connection method         | Push-in spring connection |
| Mounting type             | Wave soldering            |
| Pin layout                | Linear pinning            |
| Number of levels          | 1                         |
| Number of connections     | 5                         |
| Number of potentials      | 5                         |

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## Technical data

### Electrical parameters

|                             |       |
|-----------------------------|-------|
| Nominal current             | 16 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   | Push-in spring connection                    |
| pluggable   | no   |
| Conductor cross section solid   | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section flexible                                      | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section AWG / kcmil                                   | 26 ... 14                                    |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross section, flexible, with ferrule, with plastic sleeve  | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Stripping length  | 8 mm   |

### 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 soldering 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

|                             |         |
|-----------------------------|---------|
| Length [ l ]                | 10.5 mm |
| Width [ w ]                 | 25 mm   |
| Height [ h ]                | 16.1 mm |
| Pitch                       | 5 mm    |
| Height (without solder pin) | 13.6 mm |

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## Technical data

### Dimensions for the product

|                |               |
|----------------|---------------|
| Solder pin [P] | 2.5 mm        |
| Pin dimensions | 0.83 x 0.5 mm |

### Dimensions for PCB design

|               |        |
|---------------|--------|
| Hole diameter | 1.2 mm |
|---------------|--------|

### Packaging information

|                            |                     |
|----------------------------|---------------------|
| Type of packaging          | packed in cardboard |
| Pieces per package         | 100                 |
| Denomination packing units | Pcs.                |
| Outer packaging type       | Carton              |

### 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) |

### 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 | 0.14 mm <sup>2</sup> / solid / > 10 N    |
|  | 0.14 mm <sup>2</sup> / flexible / > 10 N |
|  | 2.5 mm <sup>2</sup> / solid / > 50 N     |
|  | 2.5 mm <sup>2</sup> / flexible / > 50 N  |

### Mechanical tests according to standard

|                    |               |
|--------------------|---------------|
| Test specification | IEC 60947-7-4 |
|--------------------|---------------|

### Electrical tests

|                             |                     |
|-----------------------------|---------------------|
| Rated current               | 16 A                |
| Conductor cross section     | 2.5 mm <sup>2</sup> |
| Rated voltage (III/2)       | 400 V               |
| Rated surge voltage (III/2) | 4 kV                |

### Air clearances and creepage distances

|   |   |
|---|---|
| Clearances and creepage distances               | IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09 |
| Specification                                   | IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09 |
| Minimum clearance - inhomogeneous field (III/3) | 3 mm  |
| Minimum clearance - inhomogeneous field (III/2) | 3 mm  |
| Minimum clearance - inhomogeneous field (II/2)  | 3 mm  |
| Minimum creepage distance value (III/3)         | 3.2 mm  |

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## Technical data

### Air clearances and creepage distances

|   |        |
|---|--------|
| Minimum creepage distance value (III/2) | 3 mm   |
| Minimum creepage distance value (II/2)  | 3.2 mm |

### Temperature-rise test

|                                   |  |
|-----------------------------------|--|
| Specification                     | IEC 60947-7-4:2013-08  |
| Result                            | Test passed  |
| Requirement temperature-rise test | The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper limiting temperature. |

### Current carrying capacity / derating curves

|                     |  |
|---------------------|--|
| Caption             | Type: PTS 1,5/ 4-5,0-H<br>Tested according to DIN EN 60512-5-2:2003-01<br>Reduction factor = 1<br>Number of positions: 4 |
| Specification       | IEC 60947-7-4:2013-08  |
| Number of positions | 4  |
| Reduction factor    | 1  |
| Note                | Representation based on IEC 60512-5-2:2002-02  |

### Vibration test

|                        |                        |
|------------------------|------------------------|
| Specification          | IEC 60068-2-6:2007-12  |
| Result                 | Test passed            |
| Frequency              | 10 - 150 - 10 Hz       |
| Sweep speed            | 1 octave/min           |
| Amplitude              | 0.35 mm (10 - 60.1 Hz) |
| Acceleration           | 5 g (60.1 - 150 Hz)    |
| Test duration per axis | 2.5 h                  |

### Insulation resistance

|  |                       |
|--|-----------------------|
| Specification                                | IEC 60512-3-1:2002-02 |
| Result                                       | Test passed           |
| Insulation resistance, neighboring positions | > 2 TΩ                |

### Glow-wire test

|                  |                        |
|------------------|------------------------|
| Specification    | IEC 60695-2-10:2013-04 |
| Result           | Test passed            |
| Temperature      | 850 °C                 |
| Time of exposure | 5 s                    |

### Alternating climate test

|                  |                   |
|------------------|-------------------|
| Result           | Test passed       |
| Specification    | ISO 6988:1985-02  |
| Corrosive stress | KFW 0.2 S/1 cycle |

### Standards and Regulations

|                                  |     |
|----------------------------------|-----|
| Connection in acc. with standard | CUL |
|----------------------------------|-----|

# PCB terminal block - PTS 1,5/ 5-5,0-H - 1792892

## Technical data

### Standards and Regulations

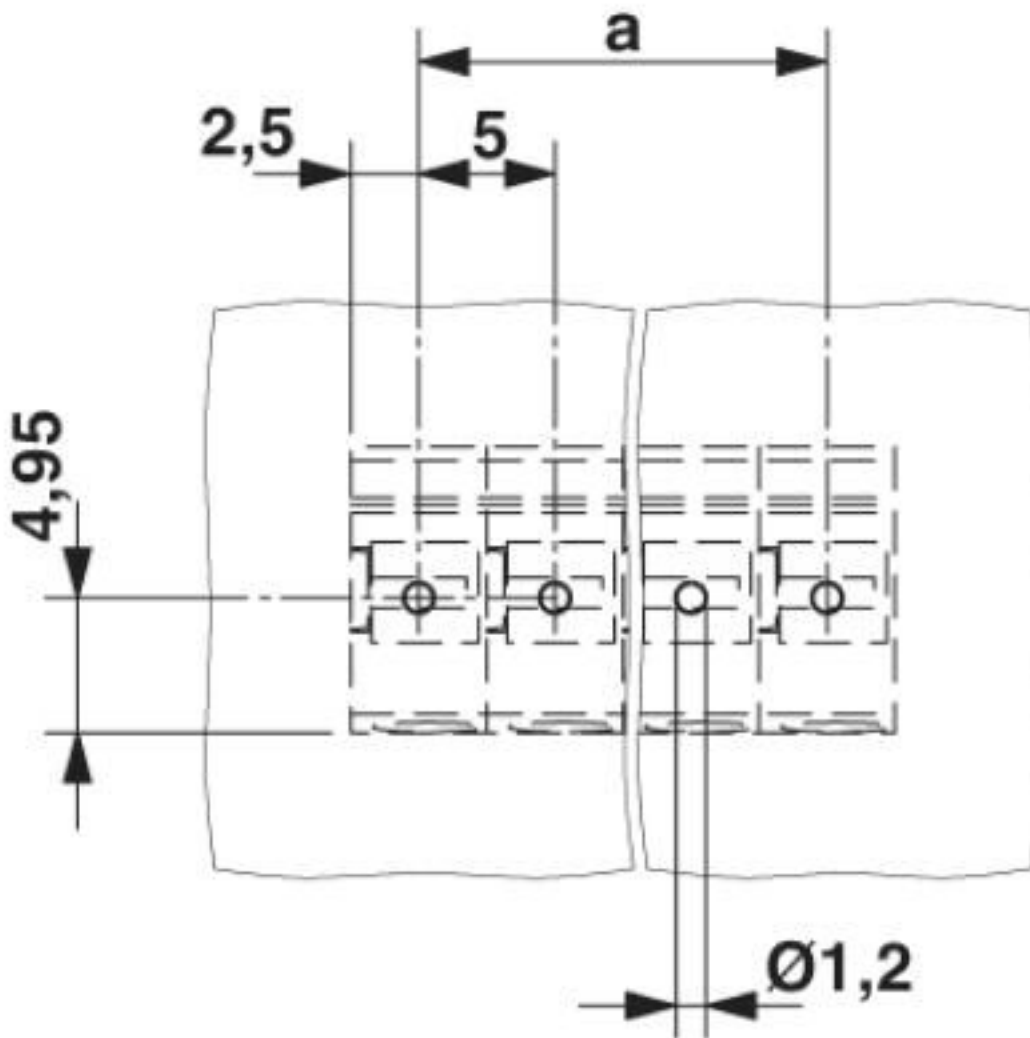
|  |    |
|--|----|
| Flammability rating according to UL 94 | V0 |
|--|----|

### Environmental Product Compliance

|            |   |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

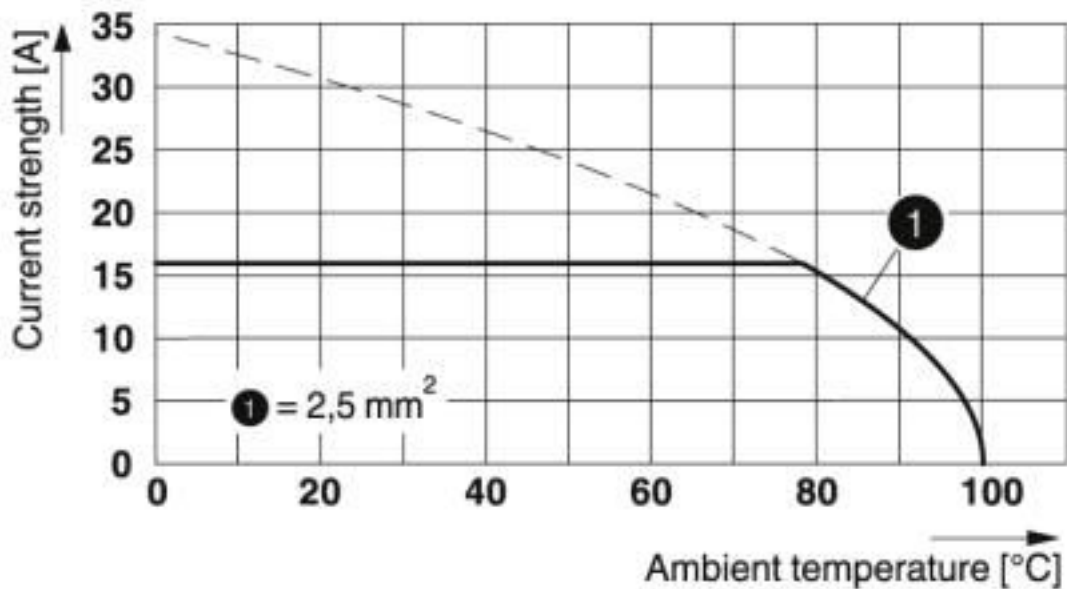
## Drawings

Drilling diagram



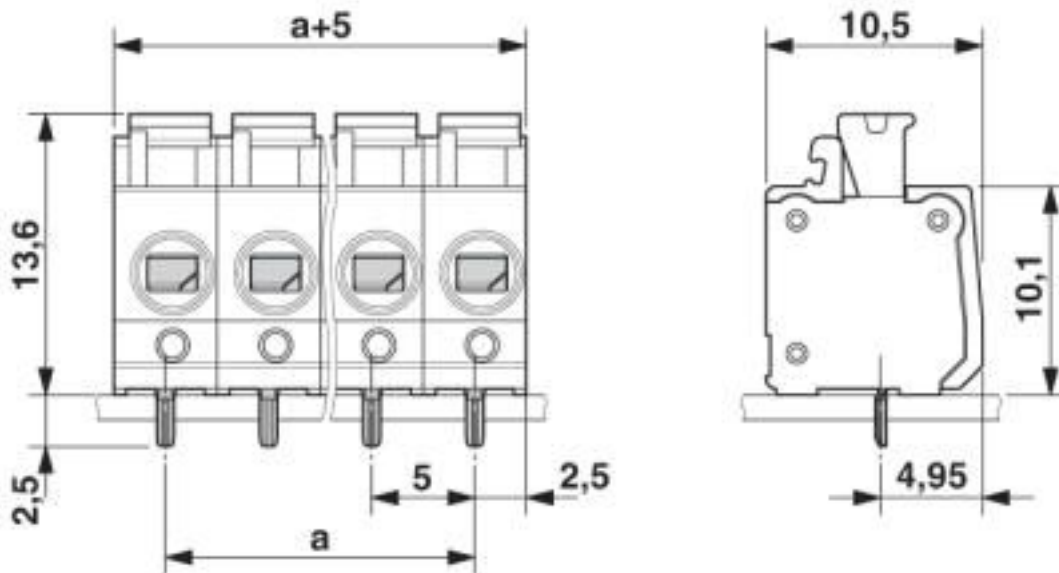
# PCB terminal block - PTS 1,5/ 5-5,0-H - 1792892

Diagram



Type: PTS 1,5/ 4-5,0-H  
 Tested according to DIN EN 60512-5-2:2003-01  
 Reduction factor = 1  
 Number of positions: 4

Dimensional drawing



## Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27440401 |
| eCl@ss 4.0    | 27260700 |

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## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.1 | 27141100 |
| eCl@ss 5.0 | 27141100 |
| 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 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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#### Approvals

IECEE CB Scheme / VDE Zeichengenehmigung / EAC / cULus Recognized

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#### Ex Approvals

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### Approval details

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## Approvals

|                            |          |   |           |
|----------------------------|----------|---|-----------|
| IECEE CB Scheme            |          | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-57682 |
| Nominal voltage UN         | 400 V    |   |           |
| Nominal current IN         | 16 A     |   |           |
| mm <sup>2</sup> /AWG/kcmil | 0.14-2.5 |   |           |

|                            |          |   |          |
|----------------------------|----------|---|----------|
| VDE Zeichengenehmigung     |          | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40038591 |
| Nominal voltage UN         | 400 V    |   |          |
| Nominal current IN         | 16 A     |   |          |
| mm <sup>2</sup> /AWG/kcmil | 0.14-2.5 |   |          |

|     |  |  |         |
|-----|--|--|---------|
| 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> | E60425-20030527 |
|                            | B     | D   |                 |
| Nominal voltage UN         | 300 V | 300 V   |                 |
| Nominal current IN         | 15 A  | 10 A  |                 |
| mm <sup>2</sup> /AWG/kcmil | 26-14 | 26-14   |                 |

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