

## PCB terminal block - PTS 1,5/ 2-5,0-H - 1792863

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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: 2, 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 | 250 pc        |
| GTIN         |               |
| GTIN         | 4046356615341 |

### Technical data

#### Item properties

|                           |                           |
|---------------------------|---------------------------|
| Brief article description | PCB terminal block        |
| Range of articles         | PTS 1,5/..-H              |
| Pitch                     | 5 mm                      |
| Number of positions       | 2                         |
| Connection method         | Push-in spring connection |
| Mounting type             | Wave soldering            |
| Pin layout                | Linear pinning            |
| Number of levels          | 1                         |
| Number of connections     | 2                         |
| Number of potentials      | 2                         |

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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 mm² ... 2.5 mm²      |
| Conductor cross section flexible                                      | 0.14 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      |
| 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 ]                 | 10 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         | 250                 |
| Denomination packing units | Pcs.                |

### Processing notes

|               |                                  |
|---------------|----------------------------------|
| Process       | Wave soldering                   |
| Specification | Following IEC 61760-1:2006-04    |
|               | Following IEC 60068-2-54:2006-04 |

### 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 mm² / solid / > 10 N    |
|                                                          | 0.14 mm² / flexible / > 10 N |
|                                                          | 2.5 mm² / solid / > 50 N     |
|                                                          | 2.5 mm² / 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 mm² |
| 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 |

## PCB terminal block - PTS 1,5/ 2-5,0-H - 1792863

### Technical data

#### Air clearances and creepage distances

|                                                 |        |
|-------------------------------------------------|--------|
| 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 |
| 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 |
|--------|-------------|

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### Technical data

#### Alternating climate test

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

#### Standards and Regulations

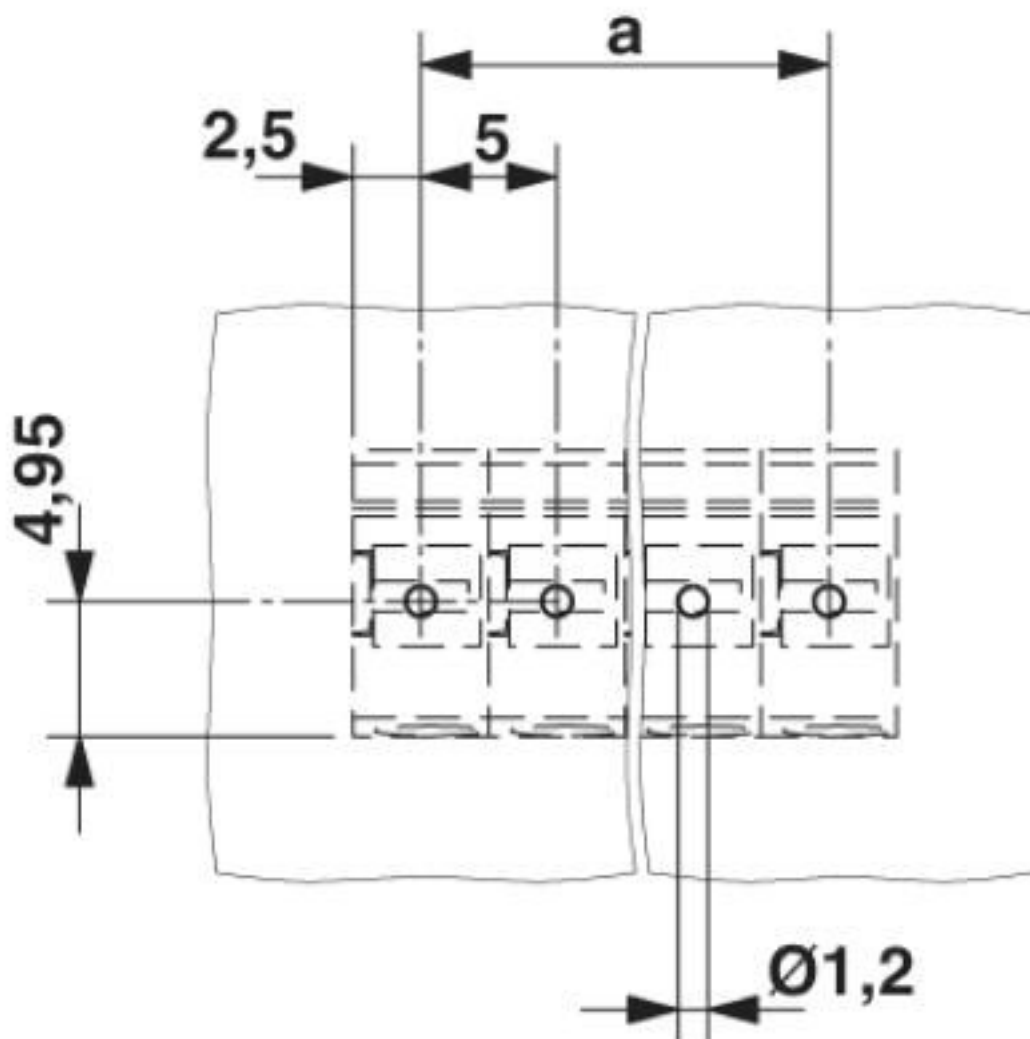
|                                        |     |
|----------------------------------------|-----|
| Connection in acc. with standard       | CUL |
| Flammability rating according to UL 94 | V0  |

#### Environmental Product Compliance

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

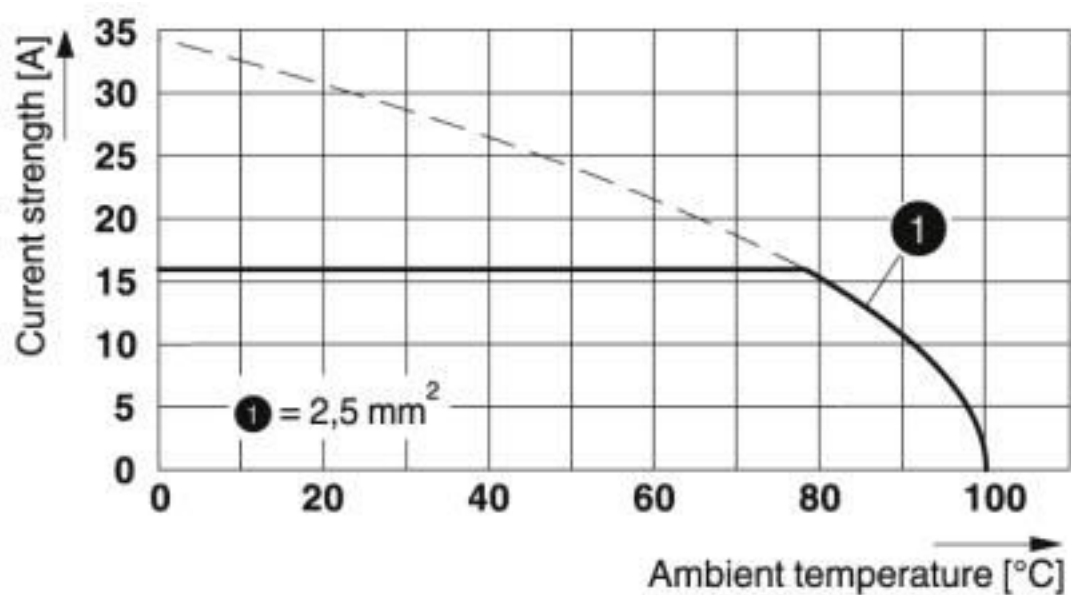
### Drawings

Drilling diagram



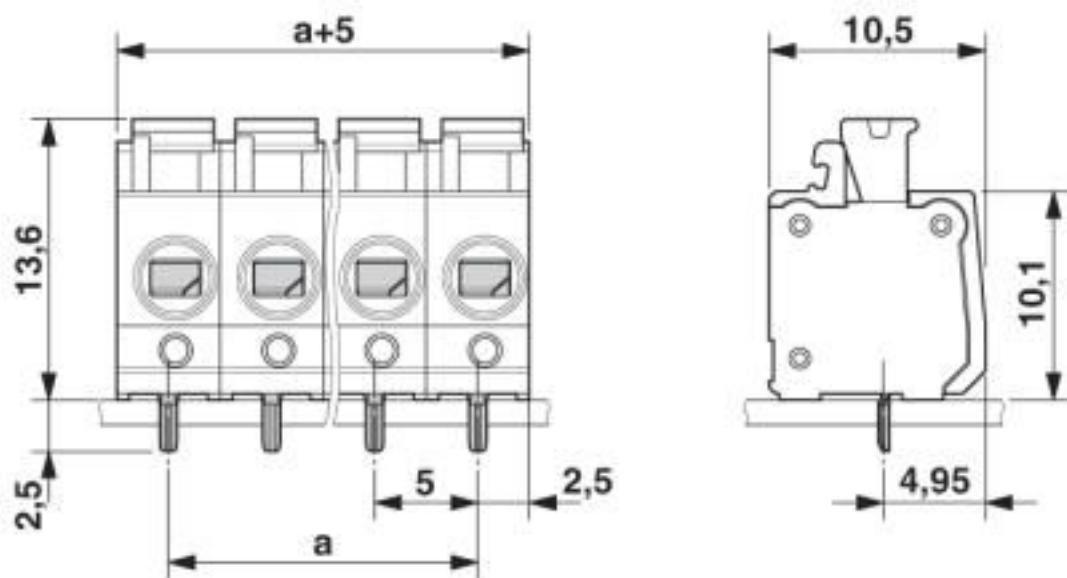
## PCB terminal block - PTS 1,5/ 2-5,0-H - 1792863

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 |

## PCB terminal block - PTS 1,5/ 2-5,0-H - 1792863

### 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

## PCB terminal block - PTS 1,5/ 2-5,0-H - 1792863

### Approvals

|                    |                     |                                                           |           |
|--------------------|---------------------|-----------------------------------------------------------|-----------|
| IECEE CB Scheme    | <b>CB</b><br>scheme | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-57682 |
| Nominal voltage UN | 400 V               |                                                           |           |
| Nominal current IN | 16 A                |                                                           |           |
| mm²/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                                                                              |                                                                                                                                                                                                           |          |
| mm²/AWG/kcmil          | 0.14-2.5                                                                          |                                                                                                                                                                                                           |          |

|     |            |         |
|-----|------------|---------|
| EAC | <b>EAC</b> | 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                                                                                                                                                  |                 |
| mm²/AWG/kcmil      | 26-14                                                                               | 26-14                                                                                                                                                 |                 |

### Accessories

#### Accessories

#### Screwdriver tools

Screwdriver - SZF 0-0,4X2,5 - 1204504



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.4 x 2.5 x 75 mm, 2-component grip, with non-slip grip



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