

## PCB terminal block - MKDS 1,5/ 2-B-5,08 - 1868733

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PCB terminal block, nominal current: 17.5 A, pitch: 5.08 mm, number of positions: 2, connection method: Screw connection with tension sleeve, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green. Connections internally jumpered

### Your advantages

- ✓ Well-known connection principle allows worldwide use
- ✓ Low temperature rise, thanks to maximum contact force
- ✓ Allows connection of two conductors
- ✓ Internal bridging for easily looping through potentials
- ✓ The latching on the side enables various numbers of positions to be combined



### Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 pc  |
| Minimum order quantity               | 50 pc   |
| GTIN                                 | <br>4 017918 141875 |
| GTIN                                 | 4017918141875   |
| Weight per Piece (excluding packing) | 3.180 g   |
| Custom tariff number                 | 85369010  |
| Country of origin                    | Poland  |

### Technical data

#### Item properties

|                           |                    |
|---------------------------|--------------------|
| Brief article description | PCB terminal block |
| Range of articles         | MKDS 1,5/...-B     |
| Pitch                     | 5.08 mm            |
| Number of positions       | 2                  |

# PCB terminal block - MKDS 1,5/ 2-B-5,08 - 1868733

## Technical data

### Item properties

|                       |                                      |
|-----------------------|--------------------------------------|
| Connection method     | Screw connection with tension sleeve |
| Drive form screw head | Slotted (L)                          |
| Screw thread          | M3                                   |
| Mounting type         | Wave soldering                       |
| Pin layout            | Linear pinning                       |
| Number of levels      | 1                                    |
| Number of connections | 2                                    |
| Number of potentials  | 2                                    |

### Connection capacity

|  |                       |
|--|-----------------------|
| Conductor cross section solid  | 0.14 mm² ... 2.5 mm²  |
| Conductor cross section flexible   | 0.14 mm² ... 1.5 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  | 0.14 mm² ... 1 mm²    |
| 2 conductors with same cross section, flexible   | 0.14 mm² ... 0.75 mm² |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve        | 0.25 mm² ... 0.5 mm²  |
| 2 conductors with same cross section, stranded, with TWIN ferrules with plastic sleeve | 0.5 mm² ... 1 mm²     |
| Stripping length   | 7 mm                  |
| Torque   | 0.5 Nm ... 0.6 Nm     |

### Material data - contact

|  |   |
|--|---|
| Note                                     | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/ JEDEC JESD 201 |
| Contact material                         | Cu alloy  |
| Metal surface terminal point (top layer) | Tin (5 - 7 µm Sn)   |
| Metal surface soldering area (top layer) | Tin (5 - 7 µm Sn)   |

### 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

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### Technical data

#### Dimensions for the product

|                             |              |
|-----------------------------|--------------|
| Length [ l ]                | 11.6 mm      |
| Width [ w ]                 | 10.16 mm     |
| Height [ h ]                | 17.3 mm      |
| Pitch                       | 5.08 mm      |
| Height (without solder pin) | 13.8 mm      |
| Solder pin [P]              | 3.5 mm       |
| Pin dimensions              | 0.9 x 0.9 mm |
| Dimension a                 | 5.08 mm      |

#### Dimensions for PCB design

|               |        |
|---------------|--------|
| Hole diameter | 1.3 mm |
|---------------|--------|

#### Packaging information

|                            |                     |
|----------------------------|---------------------|
| Type of packaging          | packed in cardboard |
| Pieces per package         | 50                  |
| 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). |

#### Processing notes

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

#### Electrical tests

|                         |                     |
|-------------------------|---------------------|
| Rated current           | 17.5 A              |
| Conductor cross section | 1.5 mm <sup>2</sup> |

#### Air clearances and creepage distances

|                                  |       |
|----------------------------------|-------|
| Rated insulation voltage (III/3) | 250 V |
|----------------------------------|-------|

#### Standards and Regulations

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

#### Environmental Product Compliance

## PCB terminal block - MKDS 1,5/ 2-B-5,08 - 1868733

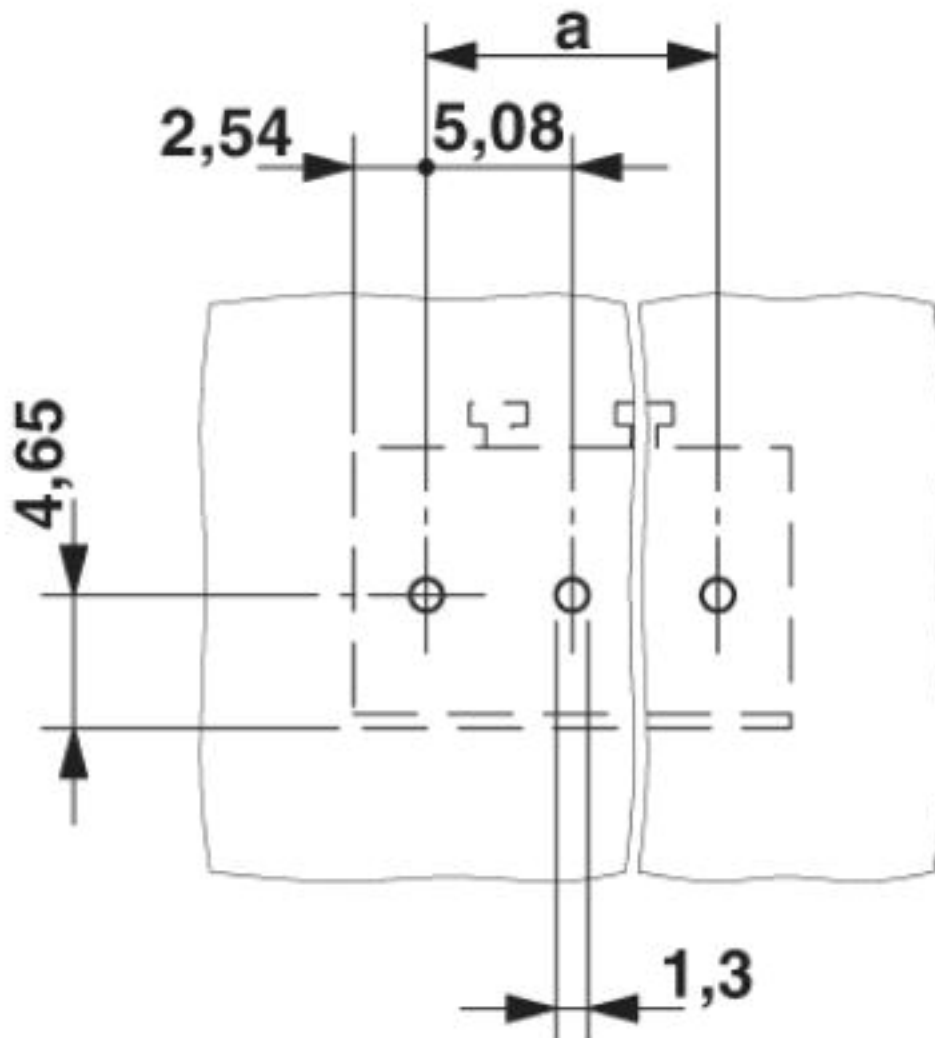
### Technical data

#### Environmental Product Compliance

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

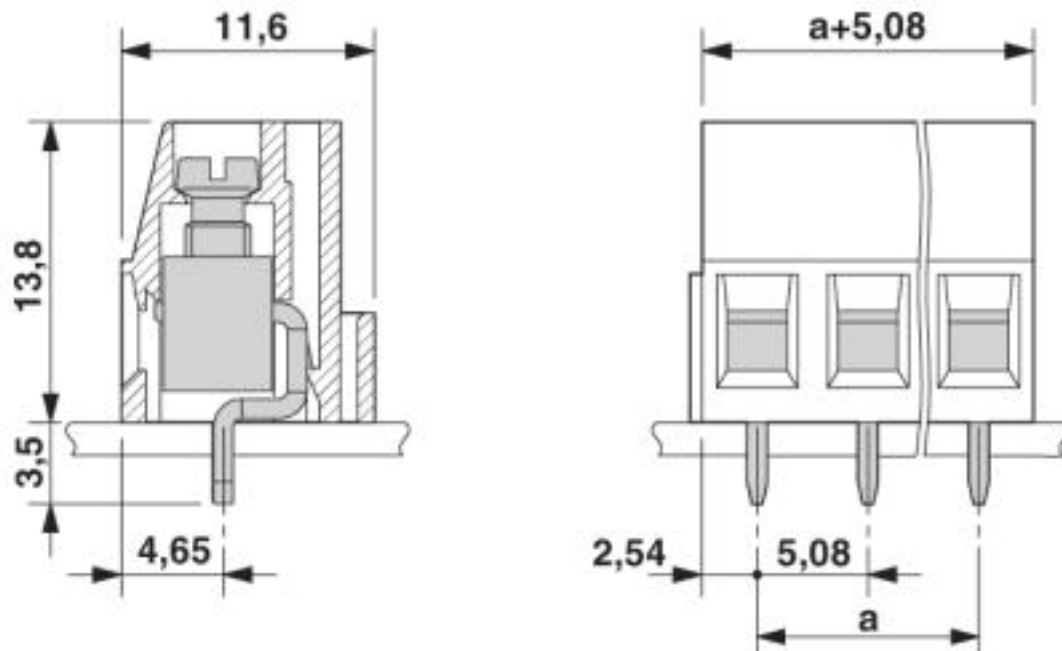
### Drawings

Drilling diagram



## PCB terminal block - MKDS 1,5/ 2-B-5,08 - 1868733

Dimensional drawing



### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27141100 |
| 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 3.0 | EC001121 |
| ETIM 4.0 | EC002643 |
| ETIM 5.0 | EC002643 |
| ETIM 6.0 | EC002643 |
| ETIM 7.0 | EC002643 |

#### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 6.01 | 30211801 |
|-------------|----------|

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### Classifications

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 7.0901 | 39121432 |
| UNSPSC 11     | 39121432 |
| UNSPSC 12.01  | 39121432 |
| UNSPSC 13.2   | 39121432 |

### Approvals


#### Approvals


#### Approvals

IECEE CB Scheme / SEV / EAC / cULus Recognized / DNV GL

#### Ex Approvals

#### Approval details


|                    |   |   |         |
|--------------------|---|---|---------|
| IECEE CB Scheme    |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | CH-8225 |
| Nominal voltage UN | 250 V   |   |         |
| Nominal current IN | 24 A  |   |         |
| mm²/AWG/kcmil      | 2.5   |   |         |

|                    |   |   |            |
|--------------------|---|---|------------|
| SEV                |  | <a href="https://www.electrosuisse.ch/de/meta/shop/produktezertifikate.html">https://www.electrosuisse.ch/de/meta/shop/produktezertifikate.html</a> | IK-3542-M1 |
| Nominal voltage UN | 250 V   |   |            |
| Nominal current IN | 24 A  |   |            |
| mm²/AWG/kcmil      | 2.5   |   |            |

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

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### Approvals

|                    |   |   |                 |
|--------------------|---|---|-----------------|
| 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> | E60425-19770427 |
|                    | B   | D   |                 |
| Nominal voltage UN | 300 V   | 300 V   |                 |
| Nominal current IN | 10 A  | 10 A  |                 |
| mm²/AWG/kcmil      | 30-14   | 30-14   |                 |

|        |   |   |            |
|--------|---|---|------------|
| DNV GL |  | <a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a> | TAE00001EV |
|--------|---|---|------------|

### Accessories

#### Accessories

##### Bridge

Insertion bridge - EBP 2- 5 - 1733169



Insertion bridge, fully insulated, for connectors with 5.0 or 5.08 mm pitch, no. of positions: 2

##### Labeled terminal marker

Marker card - SK 5,08/3,8:FORTL.ZAHLEN - 0804293



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: 5.08 mm, lettering field size: 5.08 x 3.8 mm

##### Screwdriver tools

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### 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