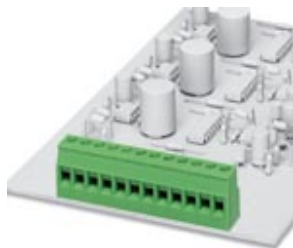


## PCB terminal block - MKDSD 2,5/ 2-5,08 BD:-12,+11 - 1703479

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PCB terminal block, nominal current: 24 A, nom. voltage: 400 V, 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

The figure shows a combination as a 12-position version

### Your advantages

- ✓ Well-known connection principle allows worldwide use
- ✓ Low temperature rise, thanks to maximum contact force
- ✓ Allows connection of two conductors
- ✓ Two solder pins reduce the mechanical strain on the soldering spots
- ✓ Integrated protective guide prevents incorrect insertion of the conductor underneath the tension sleeve



### Key Commercial Data

|                        |                                                                                      |
|------------------------|--------------------------------------------------------------------------------------|
| Packing unit           | 50 pc                                                                                |
| Minimum order quantity | 50 pc                                                                                |
| GTIN                   |  |
| GTIN                   | 4046356654692                                                                        |

### Technical data

#### Item properties

|                           |                                      |
|---------------------------|--------------------------------------|
| Brief article description | PCB terminal block                   |
| Range of articles         | MKDSD 2,5                            |
| Pitch                     | 5.08 mm                              |
| Number of positions       | 2                                    |
| Connection method         | Screw connection with tension sleeve |
| Drive form screw head     | Slotted (L)                          |
| Screw thread              | M3                                   |
| Mounting type             | Wave soldering                       |
| Pin layout                | Linear double pinning                |

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## Technical data

### Item properties

|                  |   |
|------------------|---|
| Number of levels | 1 |
|------------------|---|

### Electrical parameters

|                                  |       |
|----------------------------------|-------|
| Rated current                    | 24 A  |
| Rated insulation voltage (III/2) | 400 V |
| Rated surge voltage (III/2)      | 4 kV  |

### Connection capacity

|                                                                                        |                       |
|----------------------------------------------------------------------------------------|-----------------------|
| 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 ... 2.5 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 ... 0.75 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 ... 0.75 mm² |
| 2 conductors with same cross section, stranded, with TWIN ferrules with plastic sleeve | 0.5 mm² ... 1.5 mm²   |
| Stripping length                                                                       | 8 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

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Caption      | Schematic representation – for additional information, see product range drawing in the Download Center |
| Length [ l ] | 11.62 mm                                                                                                |
| Width [ w ]  | 11.34 mm                                                                                                |
| Height [ h ] | 21.7 mm                                                                                                 |
| Pitch        | 5.08 mm                                                                                                 |

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## Technical data

### Dimensions for the product

|                             |              |
|-----------------------------|--------------|
| Height (without solder pin) | 18 mm        |
| Solder pin [P]              | 3.7 mm       |
| Pin dimensions              | 1.1 x 0.8 mm |
| Dimension a                 | 5.08 mm      |

### Dimensions for PCB design

|               |        |
|---------------|--------|
| Hole diameter | 1.4 mm |
|---------------|--------|

### Packaging information

|                            |                     |
|----------------------------|---------------------|
| Type of packaging          | packed in cardboard |
| Pieces per package         | 50                  |
| Denomination packing units | Pcs.                |

### Electrical tests

|                                  |       |
|----------------------------------|-------|
| Rated current                    | 24 A  |
| Rated insulation voltage (III/2) | 400 V |
| Rated surge voltage (III/2)      | 4 kV  |

### Air clearances and creepage distances

|                                  |       |
|----------------------------------|-------|
| Insulating material group        | I     |
| Voltage                          | 250 V |
| 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  |

### Standards and Regulations

|                                  |        |
|----------------------------------|--------|
| Connection in acc. with standard | EN-VDE |
|                                  | CSA    |

### 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" |

## Approvals

### Approvals

Approvals

CSA / CCA / SEV / EAC / cULus Recognized

# PCB terminal block - MKDSD 2,5/ 2-5,08 BD:-12,+11 - 1703479

## Approvals

Ex Approvals

## Approval details

|                    |                                                                                   |                                                                                                                                         |       |
|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| CSA                |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|                    | D                                                                                 | B                                                                                                                                       |       |
| Nominal voltage UN | 300 V                                                                             | 300 V                                                                                                                                   |       |
| Nominal current IN | 10 A                                                                              | 10 A                                                                                                                                    |       |
| mm²/AWG/kcmil      | 28-12                                                                             | 28-12                                                                                                                                   |       |

|                    |         |
|--------------------|---------|
| CCA                | IK-2389 |
| Nominal voltage UN | 400 V   |
| 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-3535 |
| Nominal voltage UN | 400 V                                                                               |                                                                                                                                                     |         |
| mm²/AWG/kcmil      | 2.5                                                                                 |                                                                                                                                                     |         |

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

|                    |                                                                                     |                                                                                                                                                       |                 |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 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 |
|                    | D                                                                                   | B                                                                                                                                                     |                 |
| Nominal voltage UN | 300 V                                                                               | 300 V                                                                                                                                                 |                 |
| Nominal current IN | 10 A                                                                                | 20 A                                                                                                                                                  |                 |
| mm²/AWG/kcmil      | 30-12                                                                               | 30-12                                                                                                                                                 |                 |

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