# PCB terminal block base - MKKDSNH 1,5/ 3-5,08 BK - 1800115

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The figure shows a 2-pos. version of the product

PCB terminal block, nominal current: 13.5 A, rated voltage (III/2): 400 V, Nominal cross section: 1.5 mm², pitch: 5.08 mm, number of positions: 3, connection method: Screw connection with tension sleeve, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: black, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm. The article can be aligned to create different nos. of positions!

## Your advantages

- Well-known connection principle allows worldwide use
- Low temperature rise, thanks to maximum contact force
- Allows connection of two conductors
- Extremely small design for the respective conductor cross section
- Conductor connection on several levels enables higher contact density
- Tall type enables conductor connection for sealed PCBs
- The latching on the side enables various numbers of positions to be combined




## Key Commercial Data

| | |
|---|---|
| Packing unit | 50 pc |
| GTIN | 4 055626 141121 |
| GTIN | 4055626141121 |

## Technical data

### Item properties

| | |
|---|---|
| Brief article description | PCB terminal block |
| Range of articles | MKKDSNH 1,5 |
| Pitch | 5.08 mm |
| Number of positions | 3 |
| Connection method | Screw connection with tension sleeve |
| Drive form screw head | Slotted (L) |
| Mounting type | Wave soldering |
| Pin layout | Linear pinning |

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## Technical data

### Item properties

| | |
|---|---|
| Number of levels | 1 |
| Number of connections | 3 |
| Number of potentials | 3 |

### Electrical parameters

| | |
|---|---|
| Nom. voltage | 400 V |

### Connection capacity

| | |
|---|---|
| Connection method | Screw connection with tension sleeve |
| pluggable | Yes |
| Conductor cross section solid | 0.14 mm² ... 1.5 mm² |
| Conductor cross section flexible | 0.14 mm² ... 1.5 mm² |
| Conductor cross section AWG / kcmil | 26 ... 16 |
| 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 ... 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 ... 0.5 mm² |
| 2 conductors with same cross section, stranded, with TWIN ferrules with plastic sleeve | 0.5 mm² ... 1 mm² |
| Stripping length | 6 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 |
| Surface characteristics | Tin-plated |
| Metal surface terminal point (top layer) | Tin (5 - 7 µm Sn) |
| Metal surface terminal point (middle layer) | Nickel (2 - 3 µm Ni) |
| Metal surface soldering area (top layer) | Tin (5 - 7 µm Sn) |
| Metal surface soldering area (middle layer) | Nickel (2 - 3 µm Ni) |

### 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 ] | 8.6 mm |
| Width [ w ] | 15.24 mm |
| Height [ h ] | 22.6 mm |
| Pitch | 5.08 mm |
| Height (without solder pin) | 19.1 mm |
| Solder pin [P] | 3.5 mm |
| Pin dimensions | 0.5 x 1 mm |
| Dimension a | 10.16 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. |

### 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 60998-2-1:2002-12 |
| | Test passed |

### Pull-out test

| | |
|---|---|
| Pull-out test | IEC 60998-2-1:2002-12 |
| | Test passed |
| Conductor cross section / conductor type / tensile force | 0.14 mm² / solid / > 10 N |
| | 0.14 mm² / flexible / > 10 N |
| | 1.5 mm² / solid / > 40 N |
| | 1.5 mm² / flexible / > 40 N |

### Electrical tests

| | |
|---|---|
| Rated current | 13.5 A |
| Conductor cross section | 1.5 mm² |
| Rated voltage (III/2) | 400 V |
| Rated surge voltage (III/2) | 4 kV |

### Air clearances and creepage distances

| | |
|---|---|
| Clearances and creepage distances | IEC 60664-1:2007-04 |
| Specification | IEC 60664-1:2007-04 |
| Rated insulation voltage (III/3) | 250 V |

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## Technical data

### Air clearances and creepage distances

| | |
|---|---|
| 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 |
| 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) | 2 mm |
| Minimum creepage distance value (II/2) | 3.2 mm |
| Note on connection cross section | With connected conductor 1.5 mm² (solid). |

### Vibration test

| | |
|---|---|
| Specification | IEC 60068-2-6:1995-03 |
| 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 |

### Resistance to ageing, humidity and penetration of solids

| | |
|---|---|
| Dry heat | 168 h/100°C |
| Humid heat | 48 h/30 °C/92 % |

### Standards and Regulations

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

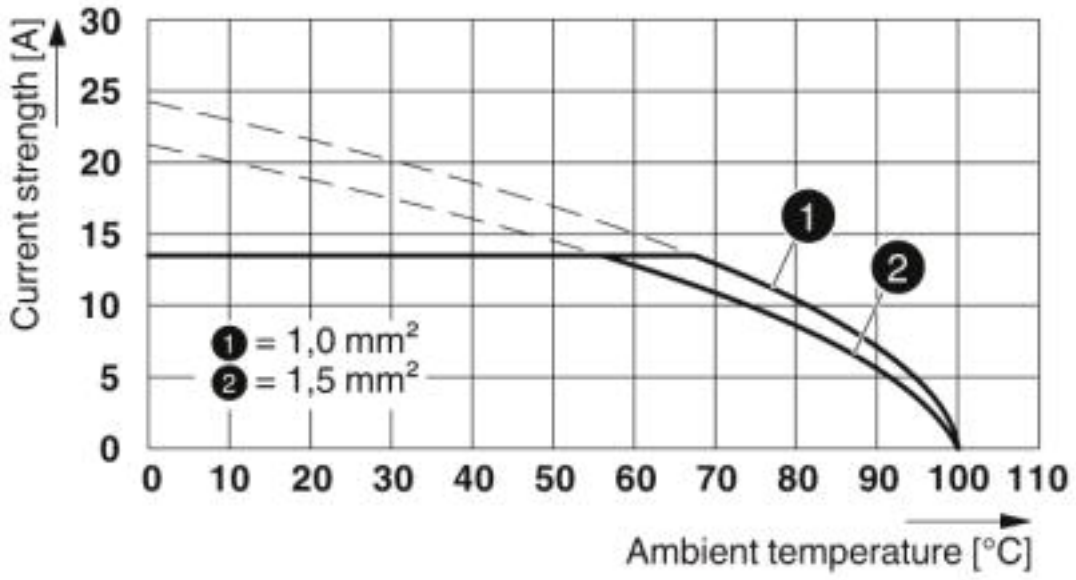
### Environmental Product Compliance

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

# PCB terminal block base - MKKDSNH 1,5/ 3-5,08 BK - 1800115

Diagram




Type: MKKDSNH 1,5/...-5,08
Tested according to DIN EN 60512-5-2:2003-01
Reduction factor = 1
Number of positions: 5

## Approvals

### Approvals

Approvals

EAC

Ex Approvals

### Approval details

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

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