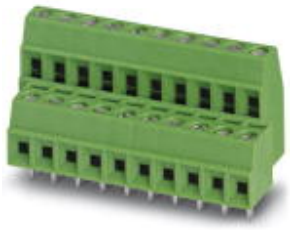
# PCB terminal block - MKKDS 1/12-3,5 - 1751497

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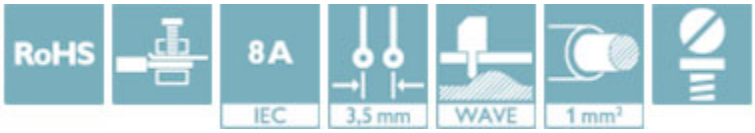


The figure shows a 10-pos. version with 20 contacts

PCB terminal block, nominal current: 8 A, rated voltage (III/2): 200 V, nominal cross section: 1 mm², pitch: 3.5 mm, number of positions: 12, connection method: Screw connection with tension sleeve, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm

## 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




## Key Commercial Data

| | |
|---|---|
| Packing unit | 1 pc |
| Minimum order quantity | 50 pc |
| GTIN | 4 017918 103958 |
| GTIN | 4017918103958 |
| Weight per Piece (excluding packing) | 14.650 g |
| Custom tariff number | 85369010 |
| Country of origin | Germany |

## Technical data

### Item properties

| | |
|---|---|
| Brief article description | PCB terminal block |
| Range of articles | MKKDS 1 |
| Pitch | 3.5 mm |

# PCB terminal block - MKKDS 1/12-3,5 - 1751497

## Technical data

### Item properties

| | |
|---|---|
| Number of positions | 12 |
| Connection method | Screw connection with tension sleeve |
| Drive form screw head | Slotted (L) |
| Screw thread | M2 |
| Mounting type | Wave soldering |
| Pin layout | Linear pinning |
| Number of levels | 2 |
| Number of connections | 24 |
| Number of potentials | 24 |

### Electrical parameters

| | |
|---|---|
| Nominal current | 8 A |
| Nom. voltage | 200 V |
| Rated voltage | 160 V |
| Rated voltage (III/2) | 200 V |
| Rated voltage (II/2) | 400 V |
| Rated surge voltage (III/3) | 2.5 kV |
| Rated surge voltage (III/2) | 2.5 kV |
| Rated surge voltage (II/2) | 2.5 kV |

### Connection capacity

| | |
|---|---|
| Connection method | Screw connection with tension sleeve |
| pluggable | no |
| Conductor cross section solid | 0.14 mm² ... 1.5 mm² |
| Conductor cross section flexible | 0.14 mm² ... 1 mm² |
| Conductor cross section AWG / kcmil | 26 ... 16 |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm² ... 0.5 mm² |
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.25 mm² ... 0.5 mm² |
| 2 conductors with same cross section, solid | 0.14 mm² ... 0.5 mm² |
| 2 conductors with same cross section, flexible | 0.14 mm² ... 0.2 mm² |
| Stripping length | 5 mm |
| Torque | 0.22 Nm ... 0.25 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 terminal point (middle layer) | Nickel (2 - 3 µm Ni) |

# PCB terminal block - MKKDS 1/12-3,5 - 1751497

## Technical data

### Material data - contact

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

| | |
|---|---|
| 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 ] | 16.3 mm |
| Width [ w ] | 44.25 mm |
| Height [ h ] | 19.7 mm |
| Pitch | 3.5 mm |
| Height (without solder pin) | 16.2 mm |
| Solder pin [P] | 3.5 mm |
| Pin spacing | 11.4 mm |
| Pin dimensions | 0.5 x 0.9 mm |
| Dimension a | 38.5 mm |

### Dimensions for PCB design

| | |
|---|---|
| Hole diameter | 1.1 mm |
| Pin spacing | 11.4 mm |

### Packaging information

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

### Electrical tests

| | |
|---|---|
| Rated current | 8 A |
| Conductor cross section | 1 mm² |
| Rated voltage (III/2) | 200 V |
| Rated surge voltage (III/2) | 2.5 kV |

### Standards and Regulations

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

# PCB terminal block - MKKDS 1/12-3,5 - 1751497

## Technical data

### Standards and Regulations

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

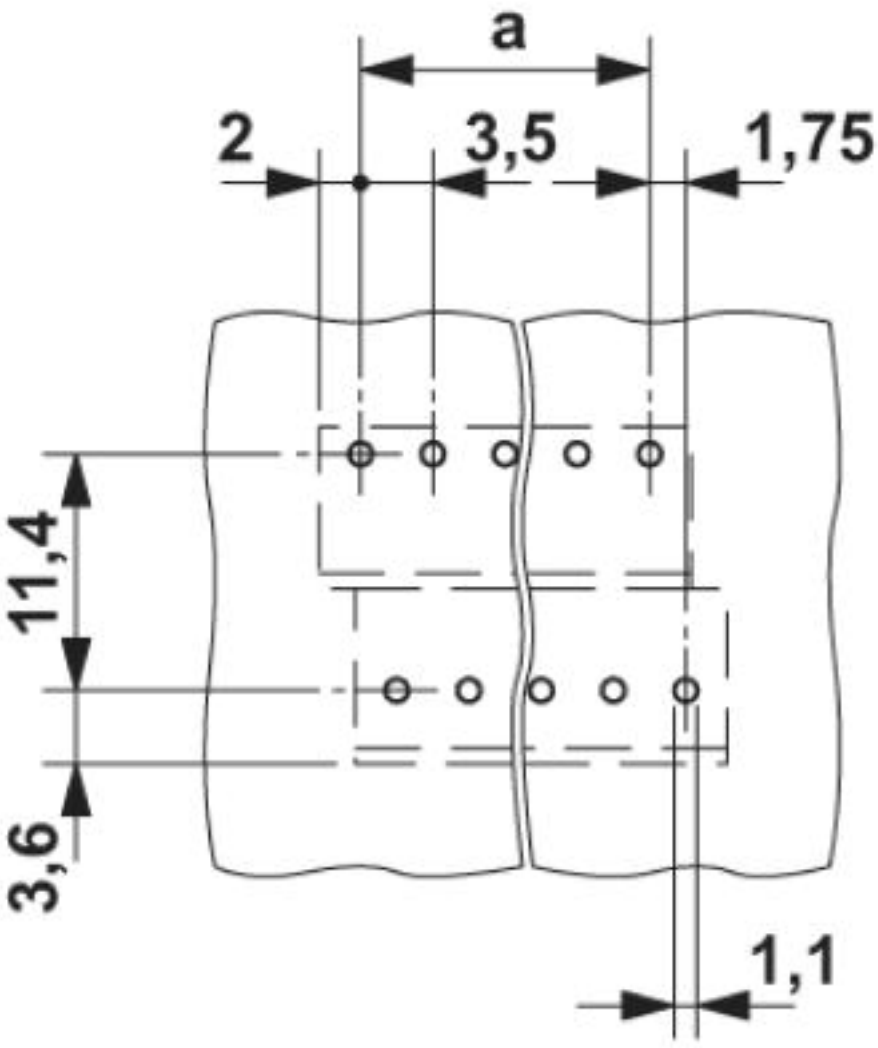
### Environmental Product Compliance

| | |
|---|---|
| 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” |

## Drawings

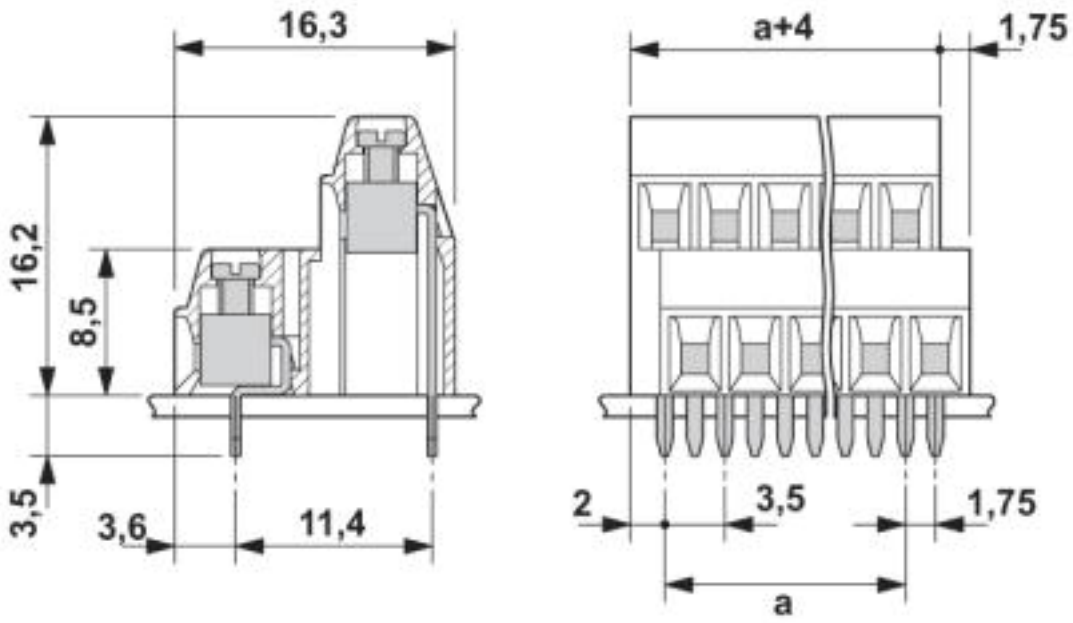
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Drilling diagram



# PCB terminal block - MKKDS 1/12-3,5 - 1751497

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 |
| UNSPSC 7.0901 | 39121432 |

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## Classifications

### UNSPSC

| | |
|---|---|
| UNSPSC 11 | 39121432 |
| 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

Approvals

CSA / IECEE CB Scheme / SEV / EAC / cULus Recognized

Ex Approvals

### Approval details

CSA http://www.csagroup.org/services-industries/product-listing/ 13631

| | B | D |
|---|---|---|
| Nominal voltage UN | 150 V | 300 V |
| Nominal current IN | 10 A | 10 A |
| mm²/AWG/kcmil | 28-16 | 28-16 |

IECEE CB Scheme http://www.iecee.org/ CH-10724

| | |
|---|---|
| Nominal voltage UN | 125 V |
| Nominal current IN | 10 A |
| mm²/AWG/kcmil | 1.5 |

# PCB terminal block - MKKDS 1/12-3,5 - 1751497

## Approvals

| | | | |
|---|---|---|---|
| SEV | | https://www.electrosuisse.ch/de/meta/shop/produktezertifikate.html | IK-4486 |

| | |
|---|---|
| Nominal voltage UN | 125 V |
| Nominal current IN | 10 A |
| mm²/AWG/kcmil | 1.5 |

| | | |
|---|---|---|
| EAC | | B.01687 |

| | | |
|---|---|---|
| cULus Recognized | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | E60425-19770427 |

| | B | D |
|---|---|---|
| Nominal voltage UN | 300 V | 300 V |
| Nominal current IN | 10 A | 10 A |
| mm²/AWG/kcmil | 30-16 | 30-16 |

## Accessories

### Accessories

### Labeled terminal marker

Marker card - SK 3,5/2,8:FORTL.ZAHLEN - 0804073



Marker card, Card, white, labeled, Horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 99, mounting type: adhesive, for terminal block width: 3.5 mm, lettering field size: 3.5 x 2.8 mm

### Marker pen

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

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## Accessories

### Screwdriver tools

Screwdriver - SZS 0,4X2,5 VDE - 1205037



Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip

### Terminal marking

Marker card - SK U/2,8 WH:UNBEDRUCKT - 0803883



Marker card, Sheet, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 2.8 mm, Number of individual labels: 3600

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