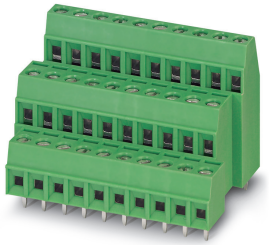
# PCB terminal block - MK3DS 1/12-3,81 - 1727832

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The figure shows a 10-pos. version with 30 contacts

PCB terminal block, nominal current: 8 A, rated voltage (III/2): 160 V, nominal cross section: 1 mm², Number of potentials: 36, Number of rows: 3, Number of positions per row: 12, product range: MK3DS 1, pitch: 3.81 mm, 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, type of packaging: packed in cardboard

## 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 116453 |
| GTIN | 4017918116453 |
| Weight per Piece (excluding packing) | 26.220 g |
| Custom tariff number | 85369010 |
| Country of origin | Germany |

## Technical data

### Item properties

| | |
|---|---|
| Brief article description | PCB terminal block |
| Range of articles | MK3DS 1 |

# PCB terminal block - MK3DS 1/12-3,81 - 1727832

## Technical data

### Item properties

| | |
|---|---|
| Pitch | 3.81 mm |
| Number of positions | 12 |
| Drive form screw head | Slotted (L) |
| Screw thread | M2 |
| Mounting type | Wave soldering |
| Pin layout | Linear pinning |
| Number of levels | 3 |
| Number of connections | 36 |
| Number of potentials | 36 |

### Electrical parameters

| | |
|---|---|
| Nominal current | 8 A |
| Nom. voltage | 160 V |
| Rated voltage (III/3) | 160 V |
| Rated voltage (III/2) | 160 V |
| Rated voltage (II/2) | 320 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 - MK3DS 1/12-3,81 - 1727832

## 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

| | |
|---|---|
| Caption | Schematische Abbildung - weitere Details siehe Produktfamilienzeichnung im Download Center |
| Length [ l ] | 25 mm |
| Width [ w ] | 47.62 mm |
| Height [ h ] | 27.4 mm |
| Pitch | 3.81 mm |
| Height (without solder pin) | 23.9 mm |
| Solder pin [P] | 3.5 mm |
| Pin dimensions | 0.5 x 0.9 mm |

### Dimensions for PCB design

| | |
|---|---|
| Hole diameter | 1.1 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) | 160 V |
| Rated surge voltage (III/2) | 2.5 kV |

### Air clearances and creepage distances

### Standards and Regulations

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

# PCB terminal block - MK3DS 1/12-3,81 - 1727832

## Technical data

### Standards and Regulations

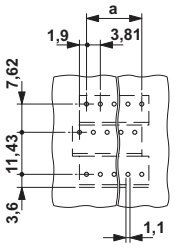
| | |
|---|---|
| | CSA |
| Flammability rating according to UL 94 | V0 |

### Environmental Product Compliance

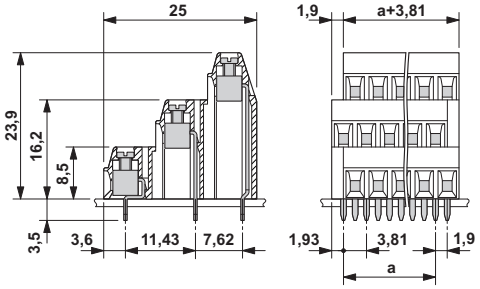
| | |
|---|---|
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration” |

## Drawings

Drilling diagram




Dimensional drawing




## Classifications

### eCl@ss

| | |
|---|---|
| eCl@ss 10.0.1 | 27440401 |
| eCl@ss 11.0 | 27460101 |
| 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 |

# PCB terminal block - MK3DS 1/12-3,81 - 1727832

## Classifications

### ETIM

| | |
|---|---|
| ETIM 7.0 | EC002643 |

### UNSPSC

| | |
|---|---|
| UNSPSC 6.01 | 30211801 |
| UNSPSC 7.0901 | 39121432 |
| 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-A1

| | |
|---|---|
| Nominal voltage UN | 125 V |

# PCB terminal block - MK3DS 1/12-3,81 - 1727832

## Approvals

| | |
|---|---|
| Nominal current IN | 8 A |
| mm²/AWG/kcmil | 1.5 |

SEV https://www.eurofins.ch/de/ IK-4486-A1

| | |
|---|---|
| Nominal voltage UN | 125 V |
| Nominal current IN | 8 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 3,81/2,8:FORTL.ZAHLEN - 0804109



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: 3.81 mm, lettering field size: 3.81 x 2.8 mm

### Screwdriver tools

# PCB terminal block - MK3DS 1/12-3,81 - 1727832

## Accessories

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

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