# PCB terminal block - GMKDSN 1,5/ 8-7,62 - 1707085

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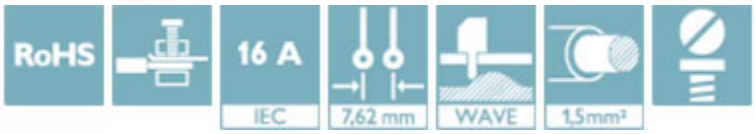
PCB terminal block, nominal current: 16 A, rated voltage (III/2): 630 V, nominal cross section: 1.5 mm², pitch: 7.62 mm, number of positions: 8, connection method: Screw connection with tension sleeve, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm. The article can be aligned to create different nos. of positions!



The figure shows an 10-position version

## 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
- Larger pitch for increased voltage requirements
- 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 | 4 017918 023423 |
| GTIN | 4017918023423 |
| Weight per Piece (excluding packing) | 9.060 g |
| Custom tariff number | 85369010 |
| Country of origin | Germany |

## Technical data

### Item properties

| | |
|---|---|
| Brief article description | PCB terminal block |
| Range of articles | GMKDSN 1,5 |

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## Technical data

### Item properties

| | |
|---|---|
| Pitch | 7.62 mm |
| Number of positions | 8 |
| 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 | 8 |
| Number of potentials | 8 |

### Electrical parameters

| | |
|---|---|
| Nominal current | 16 A |
| Nom. voltage | 630 V |
| Rated voltage | 400 V |
| Rated voltage (III/2) | 630 V |
| Rated voltage (II/2) | 1000 V |
| Rated surge voltage (III/3) | 6 kV |
| Rated surge voltage (III/2) | 6 kV |
| Rated surge voltage (II/2) | 6 kV |

### 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

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## Technical data

### 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

| | |
|---|---|
| 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 | Schematic representation – for additional information, see product range drawing in the Download Center |
| Length [ l ] | 8.1 mm |
| Width [ w ] | 60.96 mm |
| Height [ h ] | 13.5 mm |
| Pitch | 7.62 mm |
| Height (without solder pin) | 10 mm |
| Solder pin [P] | 3.5 mm |
| Pin dimensions | 0.5 x 1 mm |
| Dimension a | 53.34 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 |

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## Technical data

### General product information

| | |
|---|---|
| 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). |

### Electrical tests

| | |
|---|---|
| Rated current | 16 A |
| Conductor cross section | 1.5 mm² |
| Rated voltage (III/2) | 630 V |
| Rated surge voltage (III/2) | 6 kV |

### Standards and Regulations

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

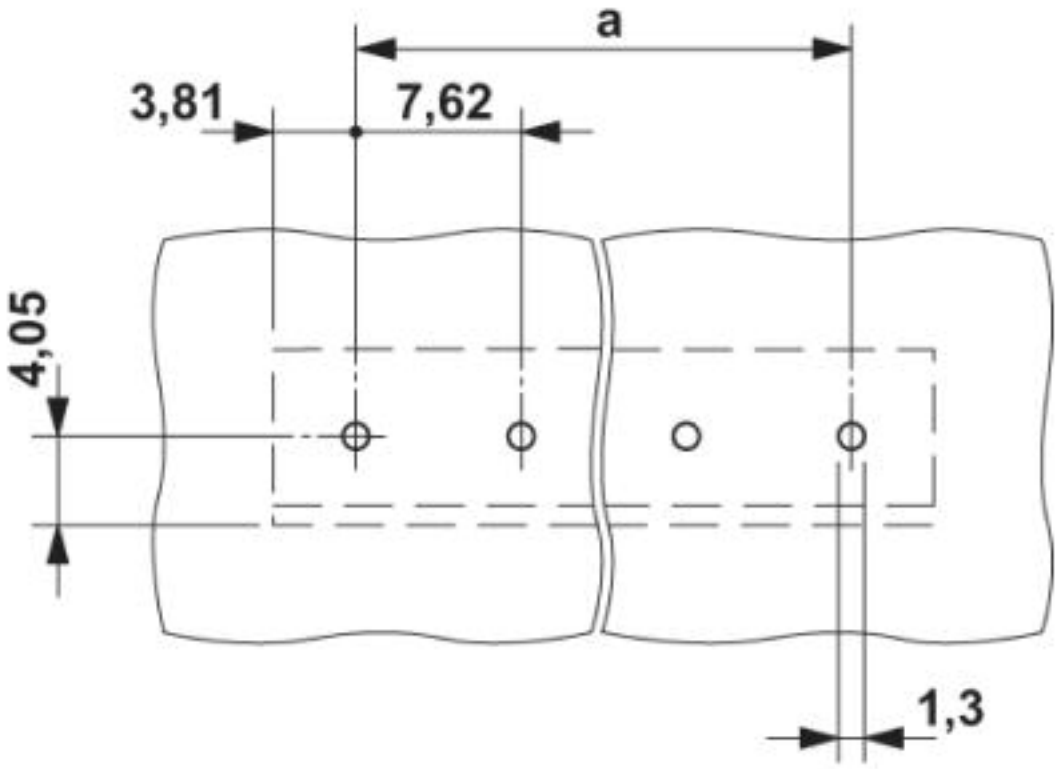
### Environmental Product Compliance

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

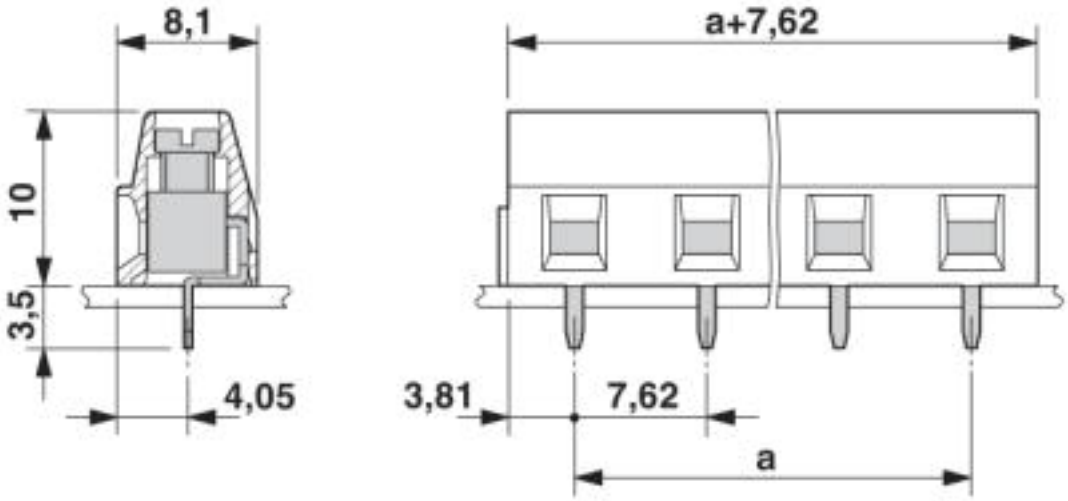
## Drawings

# PCB terminal block - GMKDSN 1,5/ 8-7,62 - 1707085

Drilling diagram




Dimensional drawing



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## 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 |
| 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

IECEE CB Scheme / SEV / EAC / cULus Recognized

Ex Approvals

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## Approvals

### Approval details

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

| | |
|---|---|
| Nominal voltage UN | 400 V |
| Nominal current IN | 16 A |
| mm²/AWG/kcmil | 1.5 |

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

| | |
|---|---|
| Nominal voltage UN | 400 V |
| Nominal current IN | 16 A |
| mm²/AWG/kcmil | 1.5 |

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

| | | | |
|---|---|---|---|
| cULus Recognized | c UL us | 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 | 30-14 | 30-14 |

## Accessories

### Accessories

Labeled terminal marker

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## Accessories

Marker card - SK 7,62/5:FORTL.ZAHLEN - 0804552



Marker card, Card, white, labeled, Horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: adhesive, for terminal block width: 7.62 mm, lettering field size: 7.62 x 5 mm

## 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

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