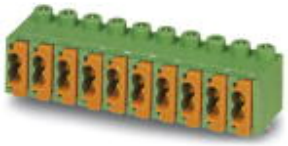
# PCB terminal block - FK-MPT 0,5/12-3,5-H - 1928864

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PCB terminal block, nominal current: 4 A, rated voltage (III/2): 250 V, nominal cross section: 0.5 mm², pitch: 3.5 mm, number of positions: 12, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 4 mm



The figure shows a 10-position version of the product

## Your advantages

- Time saving push-in connection, tools not required
- Defined contact force ensures that contact remains stable over the long term
- Intuitive use through colour coded actuation lever
- Potentials can be easily looped through – ideal for BUS applications
- Small component size for applications where space is at a premium




## Key Commercial Data

| | |
|---|---|
| Packing unit | 1 pc |
| Minimum order quantity | 50 pc |
| GTIN | 4 017918 591311 |
| GTIN | 4017918591311 |
| Weight per Piece (excluding packing) | 5.660 g |
| Custom tariff number | 85369010 |
| Country of origin | Germany |

## Technical data

### Item properties

| | |
|---|---|
| Brief article description | PCB terminal block |
| Range of articles | FK-MPT 0,5/..-H |
| Pitch | 3.5 mm |

# PCB terminal block - FK-MPT 0,5/12-3,5-H - 1928864

## Technical data

### Item properties

| | |
|---|---|
| Number of positions | 12 |
| Connection method | Push-in spring connection |
| Mounting type | Wave soldering |
| Pin layout | Linear pinning |
| Number of levels | 1 |
| Number of connections | 24 |
| Number of potentials | 12 |

### Electrical parameters

| | |
|---|---|
| Nominal current | 4 A |
| Nom. voltage | 250 V |
| Rated voltage | 160 V |
| Rated voltage (III/2) | 250 V |
| Rated voltage (II/2) | 250 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 | Push-in spring connection |
| pluggable | no |
| Conductor cross section solid | 0.12 mm² ... 0.5 mm² |
| Conductor cross section AWG / kcmil | 26 ... 20 |
| Stripping length | 6.5 mm |

### Material data - contact

| | |
|---|---|
| Note | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/ JEDEC JESD 201 |
| Contact material | Steel/copper |
| Surface characteristics | Tin-plated |
| Metal surface terminal point (top layer) | Tin (5 - 7 µm Sn) |
| Metal surface terminal point (middle layer) | Copper (2 - 3 µm Cu) |
| Metal surface soldering area (top layer) | Tin (5 - 7 µm Sn) |
| Metal surface soldering area (middle layer) | Copper (2 - 3 µm Cu) |

### Material data - housing

| | |
|---|---|
| Housing color | green (6021) |
| Insulating material | PBT |
| Insulating material group | IIIa |
| CTI according to IEC 60112 | 225 |

# PCB terminal block - FK-MPT 0,5/12-3,5-H - 1928864

## Technical data

### Material data - housing

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

### Dimensions for the product

| | |
|---|---|
| Length [ l ] | 9.5 mm |
| Width [ w ] | 42.5 mm |
| Height [ h ] | 12.5 mm |
| Pitch | 3.5 mm |
| Height (without solder pin) | 8.5 mm |
| Solder pin [P] | 4 mm |
| Pin spacing | 3.5 mm |
| Pin dimensions | 1 mm |
| Dimension a | 38.5 mm |

### Dimensions for PCB design

| | |
|---|---|
| Hole diameter | 1.2 mm |
| Pin spacing | 3.5 mm |

### Packaging information

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

### Electrical tests

| | |
|---|---|
| Rated current | 4 A |
| Rated voltage (III/2) | 250 V |
| Rated surge voltage (III/2) | 2.5 kV |

### Current carrying capacity / derating curves

### Standards and Regulations

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

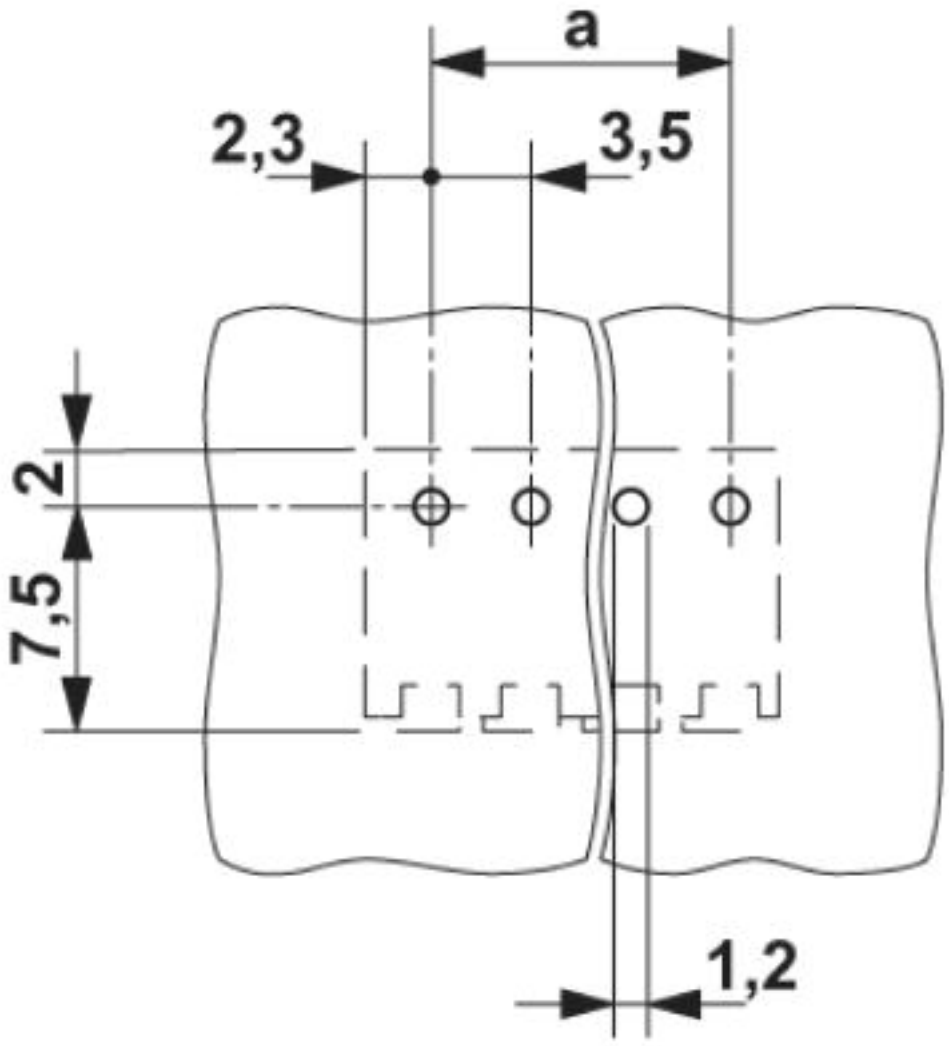
### Environmental Product Compliance

| | |
|---|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

## Drawings

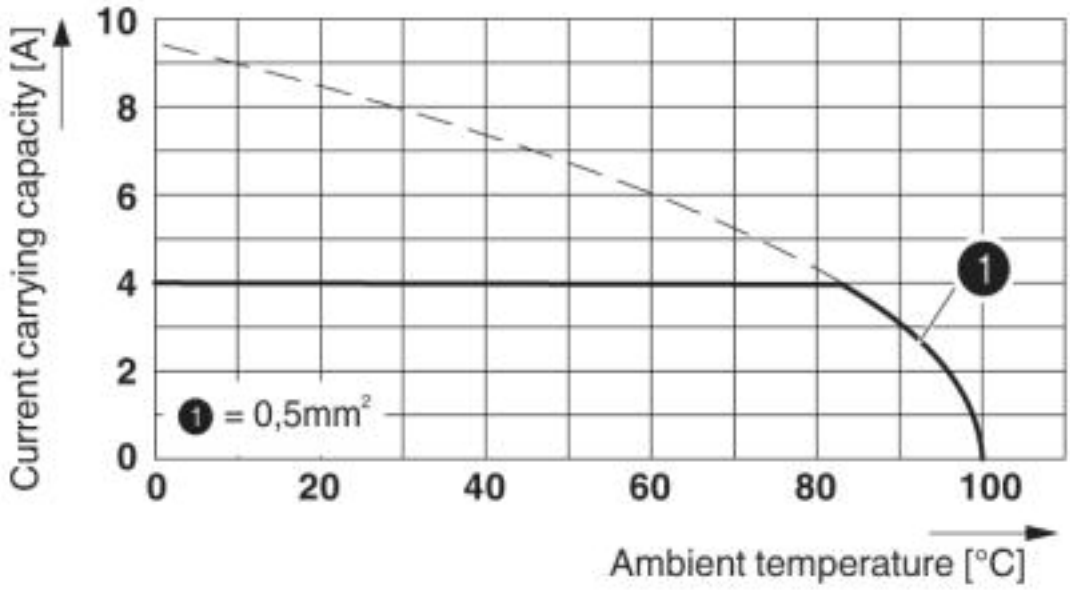
# PCB terminal block - FK-MPT 0,5/12-3,5-H - 1928864

Drilling diagram



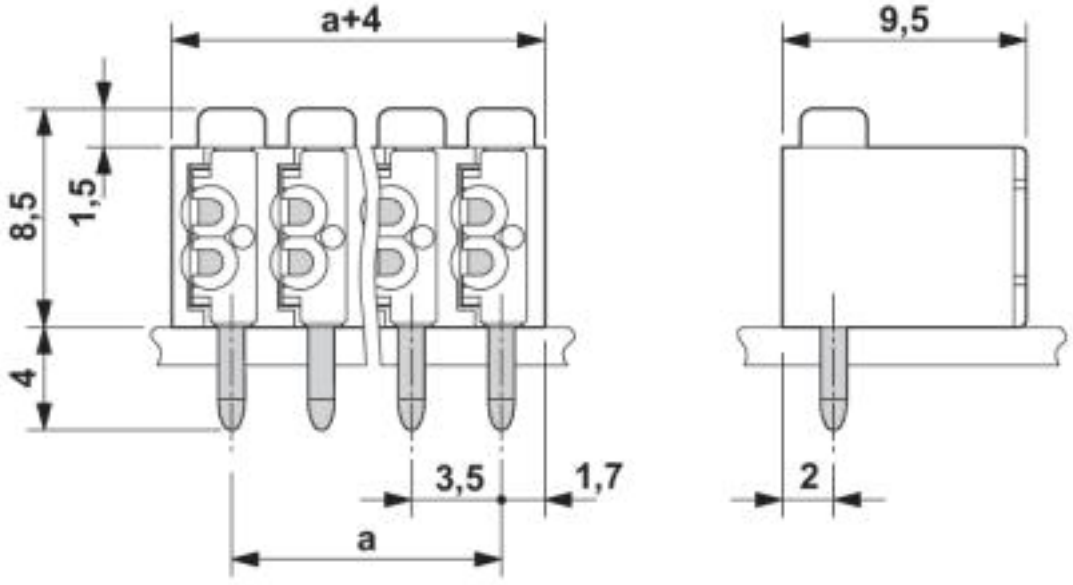
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Diagram




Derating diagram for 5 positions; reduction factor=0.8

Dimensional drawing



# PCB terminal block - FK-MPT 0,5/12-3,5-H - 1928864

## Classifications

### eCl@ss

| | |
|---|---|
| eCl@ss 4.0 | 27260700 |
| 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 | 34131203 |
| 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

UL Recognized / cUL Recognized / SEV / EAC / cULus Recognized

Ex Approvals

# PCB terminal block - FK-MPT 0,5/12-3,5-H - 1928864

## Approvals

### Approval details

UL Recognized — http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm — FILE E 60425

| | B | D |
|---|---|---|
| Nominal voltage UN | 300 V | 300 V |
| Nominal current IN | 4 A | 4 A |
| mm²/AWG/kcmil | 28-20 | 28-20 |

cUL Recognized — http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm — FILE E 60425

| | B | D |
|---|---|---|
| Nominal voltage UN | 300 V | 300 V |
| Nominal current IN | 4 A | 4 A |
| mm²/AWG/kcmil | 28-20 | 28-20 |

SEV — https://www.electrosuisse.ch/de/meta/shop/produktezertifikate.html — IK-3558-M2

| | |
|---|---|
| Nominal voltage UN | 160 V |
| Nominal current IN | 4 A |
| mm²/AWG/kcmil | 0.5 |

EAC — B.01687

cULus Recognized

## Accessories

### Accessories

### Screwdriver tools

# PCB terminal block - FK-MPT 0,5/12-3,5-H - 1928864

## Accessories

Screwdriver - SZF 0-0,4X2,5 - 1204504



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.4 x 2.5 x 75 mm, 2-component grip, with non-slip grip

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