

# PCB terminal block - FK-MPT 0,5/ 2-3,5-H - 1928767

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PCB terminal block, nominal current: 4 A, rated voltage (III/2): 250 V, nominal cross section: 0.5 mm<sup>2</sup>, pitch: 3.5 mm, number of positions: 2, 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 | 50 pc         |
| GTIN         |               |
| GTIN         | 4017918591212 |

## Technical data

### Item properties

|                           |                           |
|---------------------------|---------------------------|
| Brief article description | PCB terminal block        |
| Range of articles         | FK-MPT 0,5/..-H           |
| Pitch                     | 3.5 mm                    |
| Number of positions       | 2                         |
| Connection method         | Push-in spring connection |
| Mounting type             | Wave soldering            |
| Pin layout                | Linear pinning            |
| Number of levels          | 1                         |
| Number of connections     | 4                         |
| Number of potentials      | 2                         |

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## Technical data

### 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 mm <sup>2</sup> ... 0.5 mm <sup>2</sup> |
| 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          |
| Flammability rating according to UL 94 | V0           |

### Dimensions for the product

|                             |         |
|-----------------------------|---------|
| Length [ l ]                | 9.5 mm  |
| Width [ w ]                 | 7.5 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    |

### Dimensions for PCB design

## PCB terminal block - FK-MPT 0,5/ 2-3,5-H - 1928767

### Technical data

#### 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 |

#### Standards and Regulations

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

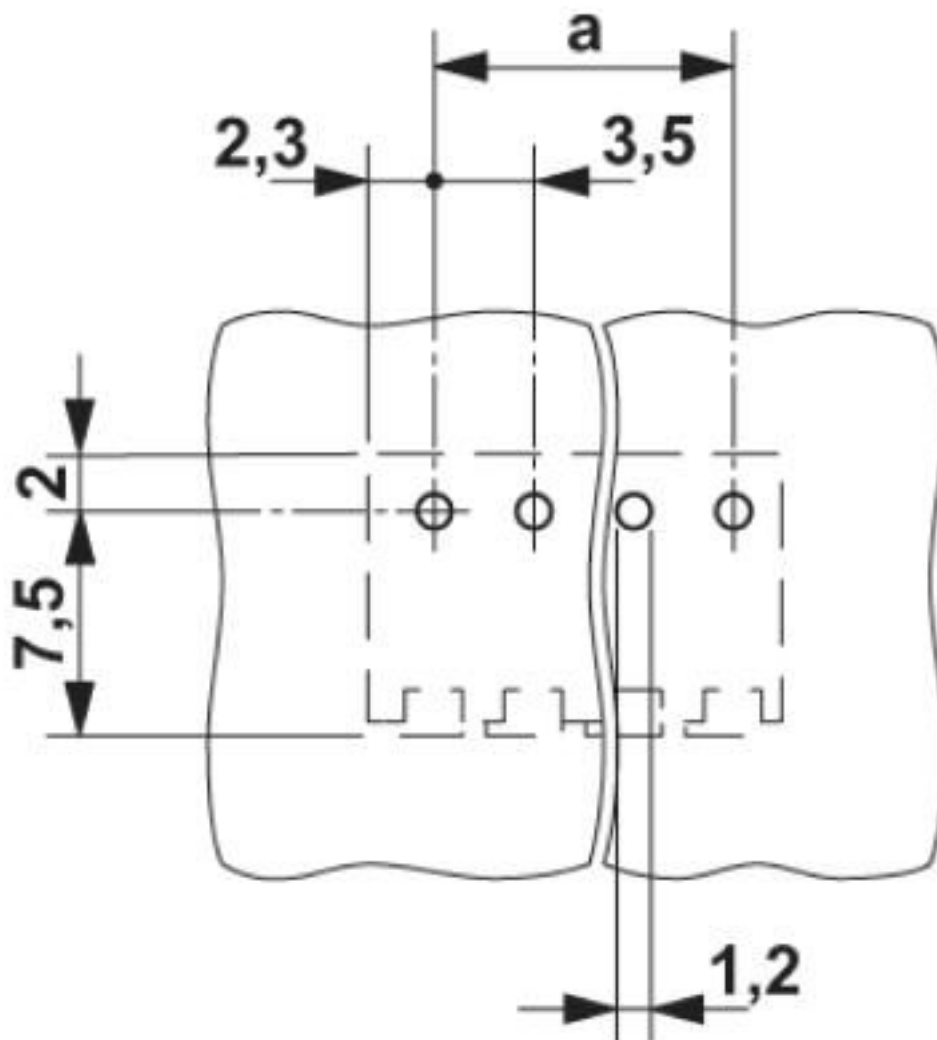
#### Environmental Product Compliance

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

### Drawings

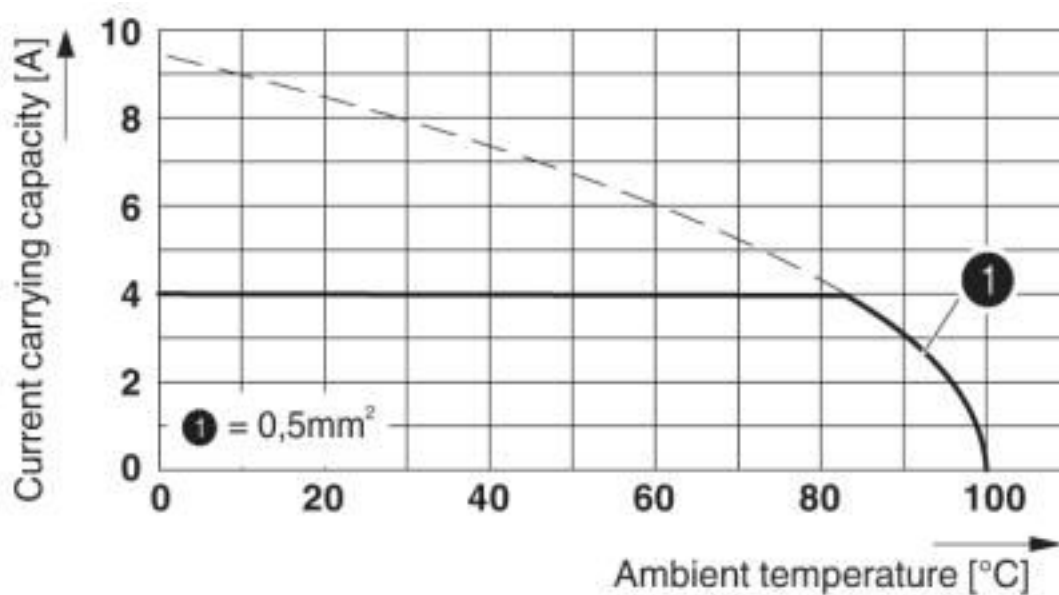
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Drilling diagram



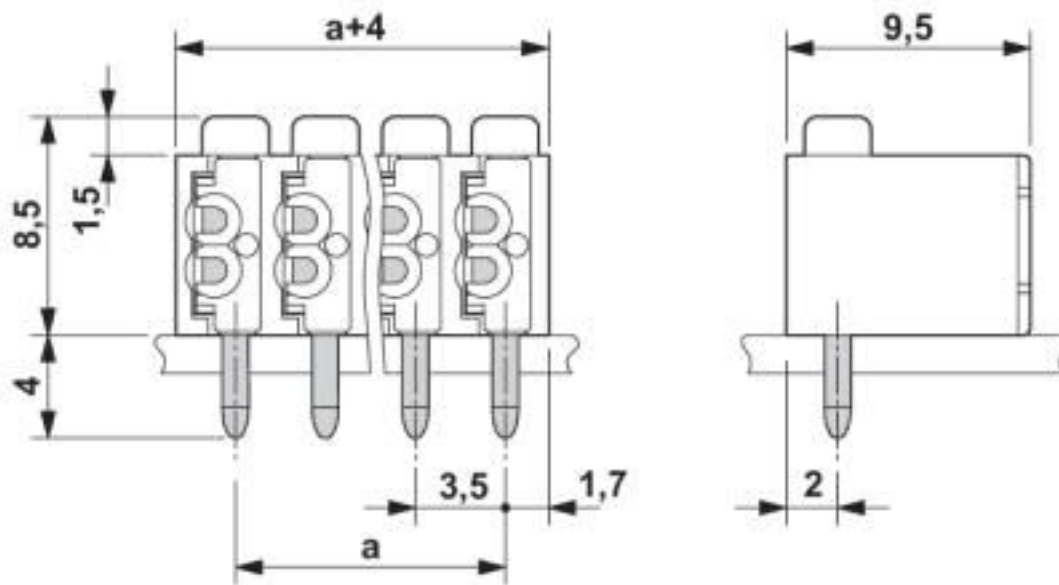
# PCB terminal block - FK-MPT 0,5/ 2-3,5-H - 1928767

Diagram



Derating diagram for 5 positions; reduction factor=0.8

Dimensional drawing



## Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27440401 |
| eCl@ss 4.0    | 27260700 |
| eCl@ss 4.1    | 27141100 |

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## Classifications

### eCl@ss

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

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#### Approvals

UL Recognized / cUL Recognized / SEV / EAC / IECCEB Scheme / cULus Recognized

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#### Ex Approvals


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### Approval details

# PCB terminal block - FK-MPT 0,5/ 2-3,5-H - 1928767


## Approvals


|                            |   |   |              |
|----------------------------|---|---|--------------|
| UL Recognized              |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|                            | B   | D   |              |
| Nominal voltage UN         | 300 V   | 300 V   |              |
| Nominal current IN         | 4 A   | 4 A   |              |
| mm <sup>2</sup> /AWG/kcmil | 28-20   | 28-20   |              |

|                            |   |   |              |
|----------------------------|---|---|--------------|
| cUL Recognized             |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|                            | B   | D   |              |
| Nominal voltage UN         | 300 V   | 300 V   |              |
| Nominal current IN         | 4 A   | 4 A   |              |
| mm <sup>2</sup> /AWG/kcmil | 28-20   | 28-20   |              |

|                            |   |   |         |
|----------------------------|---|---|---------|
| SEV                        |  | <a href="https://www.eurofins.ch/de/">https://www.eurofins.ch/de/</a> | IK-4496 |
| Nominal voltage UN         | 250 V   |   |         |
| Nominal current IN         | 4 A   |   |         |
| mm <sup>2</sup> /AWG/kcmil | 0.12-.5   |   |         |

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

|                            |   |   |          |
|----------------------------|---|---|----------|
| IECEE CB Scheme            |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | CH-10786 |
| Nominal voltage UN         | 250 V   |   |          |
| Nominal current IN         | 4 A   |   |          |
| mm <sup>2</sup> /AWG/kcmil | 0.12-.5   |   |          |

|                  |   |
|------------------|---|
| cULus Recognized |  |
|------------------|---|

## PCB terminal block - FK-MPT 0,5/ 2-3,5-H - 1928767

### Accessories

#### Accessories

#### Screwdriver tools

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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