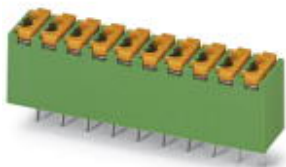


## PCB terminal block - FK-MPT 0,5/12-3,5 - 1891166

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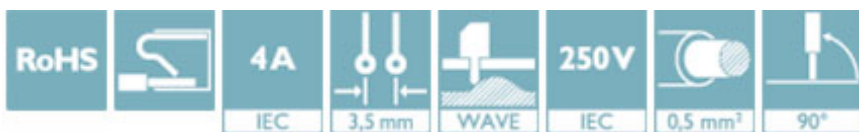
PCB terminal block, nominal current: 4 A, nom. voltage: 250 V, pitch: 3.5 mm, number of positions: 12, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 90 °, color: green



The figure shows a 10-position version of the product

### Why buy this product

- ✓ 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
- ✓ Vertical connection enables multi-row arrangement on the PCB



### Key Commercial Data

|              |               |
|--------------|---------------|
| Packing unit | 50 STK        |
| GTIN         |               |
| GTIN         | 4017918169688 |

### Technical data

#### Dimensions

|                       |            |
|-----------------------|------------|
| Length [ l ]          | 7 mm       |
| Pitch                 | 3.5 mm     |
| Dimension a           | 38.5 mm    |
| Width [ w ]           | 42.5 mm    |
| Constructional height | 9.5 mm     |
| Height [ h ]          | 13 mm      |
| Solder pin [ P ]      | 3.5 mm     |
| Pin dimensions        | 0,35 x 0,9 |
| Hole diameter         | 1 mm       |

# PCB terminal block - FK-MPT 0,5/12-3,5 - 1891166

## Technical data

### General

|  |  |
|--|--|
| Range of articles                      | FK-MPT 0,5/...-V                                       |
| Insulating material group              | IIIa   |
| Rated surge voltage (III/3)            | 2.5 kV   |
| Rated surge voltage (III/2)            | 2.5 kV   |
| Rated surge voltage (II/2)             | 2.5 kV   |
| Rated voltage (III/3)                  | 160 V  |
| Rated voltage (III/2)                  | 250 V  |
| Rated voltage (II/2)                   | 250 V  |
| Connection in acc. with standard       | EN-VDE   |
| Nominal current $I_N$                  | 4 A  |
| Nominal cross section                  | 0.5 mm <sup>2</sup>                                    |
| Maximum load current                   | 4 A (with 0.5 mm <sup>2</sup> conductor cross section) |
| Insulating material                    | PBT  |
| Flammability rating according to UL 94 | V0   |
| Stripping length                       | 6.5 mm   |
| Number of positions                    | 12   |

### Connection data

|                                    |                      |
|------------------------------------|----------------------|
| Conductor cross section solid min. | 0.12 mm <sup>2</sup> |
| Conductor cross section solid max. | 0.5 mm <sup>2</sup>  |
| Conductor cross section AWG min.   | 26                   |
| Conductor cross section AWG max.   | 20                   |

### Standards and Regulations

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

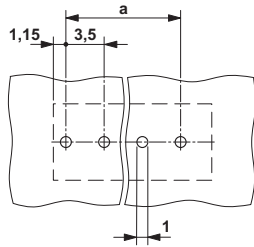
### Environmental Product Compliance

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

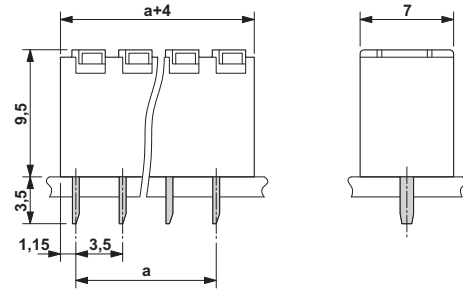
## Drawings

# PCB terminal block - FK-MPT 0,5/12-3,5 - 1891166

Drilling diagram



Dimensional drawing



## Approvals

### Approvals

Approvals

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

Ex Approvals

### Approval details

|                                |       |   |              |
|--------------------------------|-------|---|--------------|
| 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   |              |
| mm <sup>2</sup> /AWG/kcmil     | 28-20 | 28-20   |              |
| Nominal current I <sub>N</sub> | 4 A   | 4 A   |              |
| Nominal voltage U <sub>N</sub> | 300 V | 300 V   |              |


|                                |       |   |            |
|--------------------------------|-------|---|------------|
| SEV                            |       | <a href="https://www.electrosuisse.ch/en/meta/shop/product-certificates.html">https://www.electrosuisse.ch/en/meta/shop/product-certificates.html</a> | IK-3558-M2 |
| mm <sup>2</sup> /AWG/kcmil     | 0.5   |   |            |
| Nominal current I <sub>N</sub> | 3 A   |   |            |
| Nominal voltage U <sub>N</sub> | 160 V |   |            |


|                            |       |   |              |
|----------------------------|-------|---|--------------|
| 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   |              |
| mm <sup>2</sup> /AWG/kcmil | 28-20 | 28-20   |              |

## PCB terminal block - FK-MPT 0,5/12-3,5 - 1891166

### Approvals

|                                | B     | D     |
|--------------------------------|-------|-------|
| Nominal current I <sub>N</sub> | 4 A   | 4 A   |
| Nominal voltage U <sub>N</sub> | 300 V | 300 V |

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

|                  |   |   |
|------------------|---|---|
| cULus 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> |
|------------------|---|---|

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