# PCB terminal block - FFKDSA/V1-7,62 - 1790364

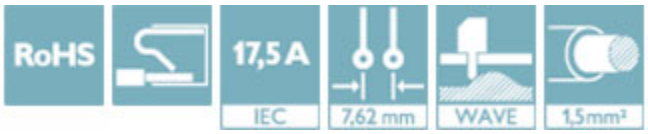
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PCB terminal block, nominal current: 17.5 A, rated voltage (III/2): 630 V, nominal cross section: 1.5 mm², pitch: 7.62 mm, number of positions: 1, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 90 °, color: green, Pin layout: Linear double pinning, Solder pin [P]: 3.4 mm. Single module for the custom grouping of different numbers of positions. An end terminal block is also needed to terminate the block (see accessories). Blocked items with different numbers of positions are also available.

## 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
- Operation and conductor connection from one direction enable integration into front of device
- Two solder pins reduce the mechanical strain on the soldering spots
- The latching on the side enables various numbers of positions to be combined
- Vertical connection enables multi-row arrangement on the PCB




## Key Commercial Data

| | |
|---|---|
| Packing unit | 1 pc |
| GTIN | 4 017918 044275 |
| GTIN | 4017918044275 |
| Weight per Piece (excluding packing) | 1.470 g |
| Custom tariff number | 85369010 |
| Country of origin | Germany |

## Technical data

### Item properties

| | |
|---|---|
| Brief article description | PCB terminal block |
| Range of articles | FFKDS(A)/V1 |
| Pitch | 7.62 mm |

# PCB terminal block - FFKDSA/V1-7,62 - 1790364

## Technical data

### Item properties

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

### Electrical parameters

| | |
|---|---|
| Nom. voltage | 630 V |

### Connection capacity

| | |
|---|---|
| Connection method | Push-in spring connection |
| pluggable | Yes |
| Conductor cross section solid | 0.2 mm² ... 1.5 mm² |
| Conductor cross section flexible | 0.2 mm² ... 1.5 mm² |
| Conductor cross section AWG / kcmil | 24 ... 16 |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm² ... 0.75 mm² |
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.25 mm² ... 0.75 mm² |
| Stripping length | 10 mm |

### 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

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

# PCB terminal block - FFKDSA/V1-7,62 - 1790364

## Technical data

### Dimensions for the product

| | |
|---|---|
| Length [ l ] | 10 mm |
| Width [ w ] | 7.62 mm |
| Height [ h ] | 17 mm |
| Pitch | 7.62 mm |
| Height (without solder pin) | 13.6 mm |
| Solder pin [P] | 3.4 mm |
| Pin spacing | 7.62 mm |
| Pin dimensions | 0.5 x 1 mm |

### Dimensions for PCB design

| | |
|---|---|
| Hole diameter | 1.3 mm |
| Pin spacing | 7.62 mm |

### Packaging information

| | |
|---|---|
| Type of packaging | packed in cardboard |
| Pieces per package | 250 |
| Denomination packing units | Pcs. |

### Ambient conditions

| | |
|---|---|
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Ambient temperature (assembly) | -5 °C ... 100 °C |
| Ambient temperature (operation) | -40 °C ... 100 °C (Depending on the current carrying capacity/derating curve) |

### Termination and connection method

| | |
|---|---|
| Test for conductor damage and slackening | IEC 60999-1:1990-05 |
| | Test passed |

### Pull-out test

| | |
|---|---|
| Pull-out test | IEC 60999-1:1990-05 |
| | Test passed |
| Conductor cross section / conductor type / tensile force | 0.2 mm² / solid / > 10 N |
| | 0.2 mm² / flexible / > 10 N |
| | 1.5 mm² / solid / > 40 N |
| | 1.5 mm² / flexible / > 40 N |

### Mechanical tests according to standard

| | |
|---|---|
| Test specification | IEC 60999-1 (in parts) |

### Electrical tests

| | |
|---|---|
| Rated current | 17.5 A |
| Conductor cross section | 1.5 mm² |

# PCB terminal block - FFKDSA/V1-7,62 - 1790364

## Technical data

### Electrical tests

| | |
|---|---|
| Rated voltage (III/2) | 630 V |
| Rated surge voltage (III/2) | 6 kV |

### Air clearances and creepage distances

| | |
|---|---|
| Clearances and creepage distances | IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09 |
| Specification | IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09 |
| Rated insulation voltage (III/3) | 500 V |
| Rated insulation voltage (III/2) | 630 V |
| Rated insulation 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 |
| Minimum clearance - inhomogeneous field (III/3) | 5.5 mm |
| Minimum clearance - inhomogeneous field (III/2) | 5.5 mm |
| Minimum clearance - inhomogeneous field (II/2) | 5.5 mm |
| Minimum creepage distance value (III/3) | 6.3 mm |
| Minimum creepage distance value (III/2) | 3.2 mm |
| Minimum creepage distance value (II/2) | 5 mm |

### Current carrying capacity / derating curves

| | |
|---|---|
| Specification | IEC 60999-1 (in parts) |

### Vibration test

| | |
|---|---|
| Specification | IEC 60068-2-6:1982 + AMD 2:1985 |
| Result | Test passed |
| Frequency | 10 - 150 - 10 Hz |
| Sweep speed | 1 octave/min |
| Amplitude | 0.35 mm (10 - 60.1 Hz) |
| Acceleration | 5 g (60.1 - 150 Hz) |
| Test duration per axis | 2.5 h |

### Standards and Regulations

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

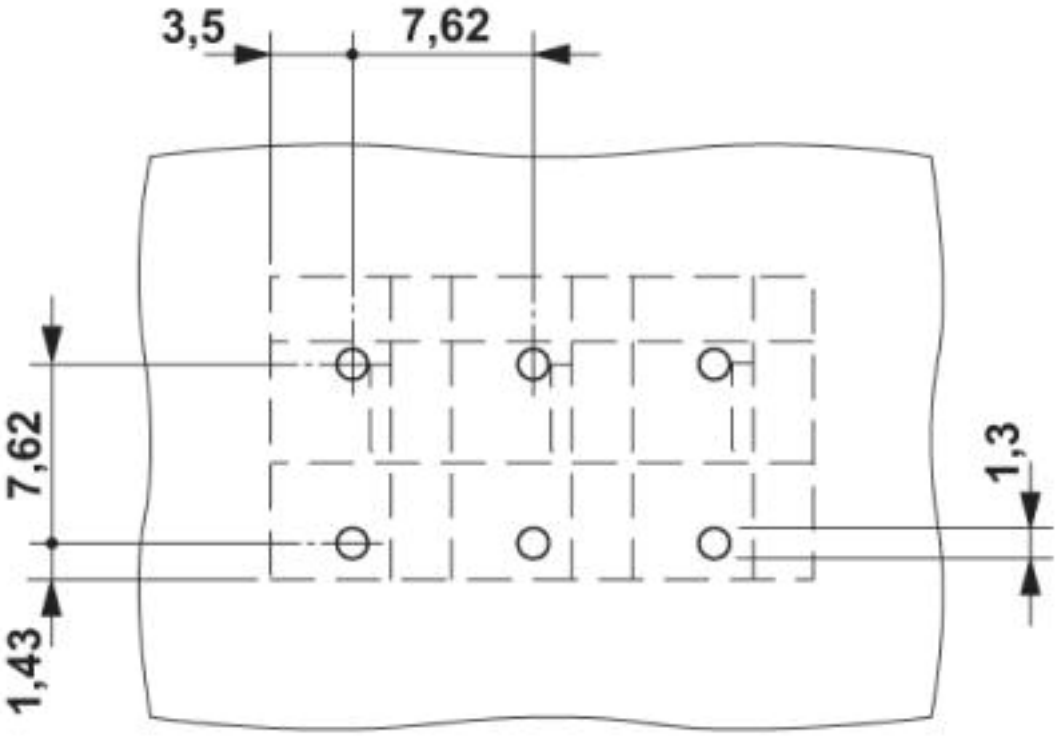
### Environmental Product Compliance

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

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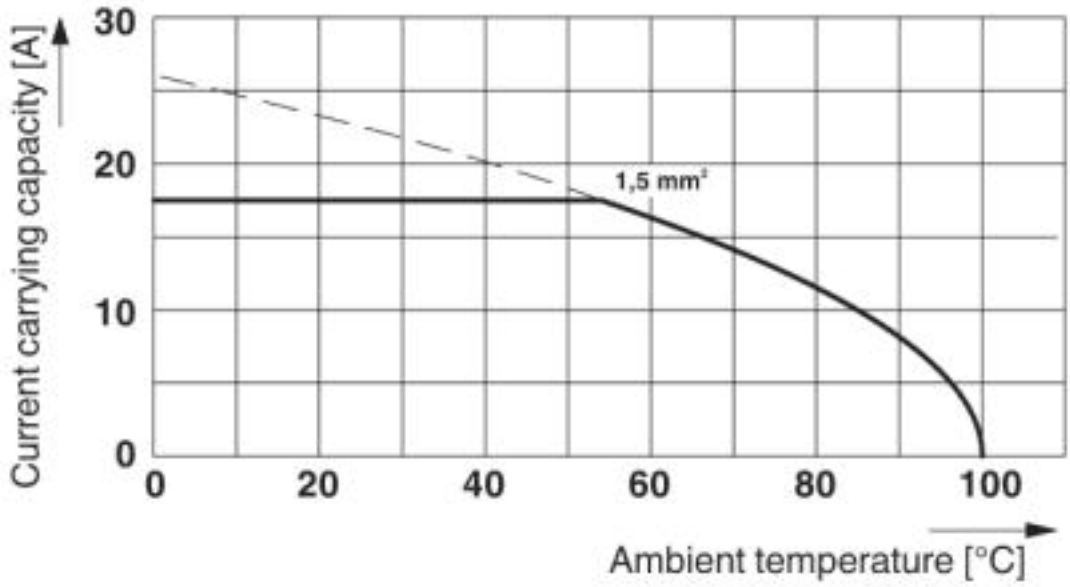
## Drawings

Drilling diagram



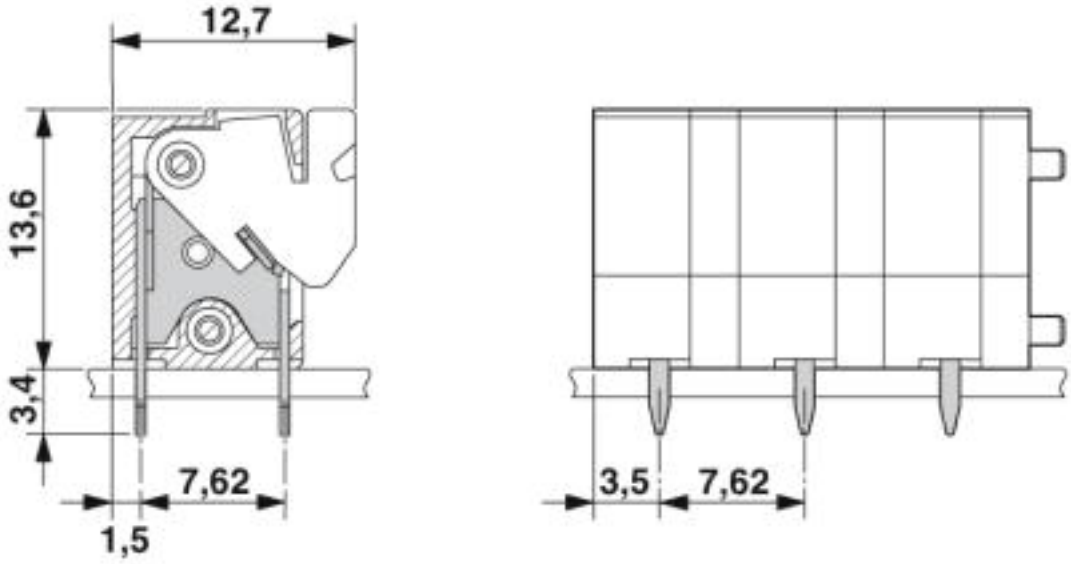
# PCB terminal block - FFKDSA/V1-7,62 - 1790364

Diagram




Type: FFKDSA/V1-7,62
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5

Dimensional drawing



# PCB terminal block - FFKDSA/V1-7,62 - 1790364

## 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

CSA / CCA / KEMA-KEUR / IECEE CB Scheme / EAC / cULus Recognized

Ex Approvals

# PCB terminal block - FFKDSA/V1-7,62 - 1790364

## Approvals

### Approval details

| | | | |
|---|---|---|---|
| CSA | | http://www.csagroup.org/services-industries/product-listing/ | 13631 |

| | B | D |
|---|---|---|
| Nominal voltage UN | 300 V | 300 V |
| Nominal current IN | 10 A | 10 A |
| mm²/AWG/kcmil | 16 | 16 |

| | | |
|---|---|---|
| CCA | | NTR NL-7074 |

| | |
|---|---|
| Nominal voltage UN | 500 V |
| mm²/AWG/kcmil | 1.5 |

| | | | |
|---|---|---|---|
| KEMA-KEUR | | http://www.dekra-certification.com | 2160724.01 |

| | |
|---|---|
| Nominal voltage UN | 500 V |
| mm²/AWG/kcmil | 1.5 |

| | | | |
|---|---|---|---|
| IECEE CB Scheme | | http://www.iecee.org/ | NL-25836 |

| | |
|---|---|
| Nominal voltage UN | 500 V |
| mm²/AWG/kcmil | 1.5 |

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

| | | | |
|---|---|---|---|
| cULus Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | E60425-19870330 |

| | B | D |
|---|---|---|
| Nominal voltage UN | 300 V | 300 V |
| Nominal current IN | 10 A | 10 A |

# PCB terminal block - FFKDSA/V1-7,62 - 1790364

## Approvals

| | B | D |
|---|---|---|
| mm²/AWG/kcmil | 22-16 | 22-16 |

## Accessories

### Accessories

### Labeled terminal marker

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 - SZF 1-0,6X3,5 - 1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

### Necessary add-on products

PCB terminal block - FFKDSA1/V1-7,62 - 1790490



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