# PCB terminal block - FFKDSA1/V-2,54- 9 - 1888276

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The figure shows the 10-position version

PCB terminal block, nominal current: 6 A, rated voltage (III/2): 160 V, Nominal cross section: 0.5 mm², pitch: 2.54 mm, number of positions: 9, 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. The article can be aligned to create different nos. of positions!

## 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 | 10 pc |
| Minimum order quantity | 10 pc |
| GTIN | 4 017918 324704 |
| GTIN | 4017918324704 |

## Technical data

### Item properties

| | |
|---|---|
| Brief article description | PCB terminal block |
| Range of articles | FFKDS(A) 0,5/..-V |
| Pitch | 2.54 mm |
| Number of positions | 9 |
| Connection method | Push-in spring connection |
| Mounting type | Wave soldering |
| Pin layout | Linear double pinning |

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## Technical data

### Item properties

| | |
|---|---|
| Number of levels | 1 |
| Number of connections | 9 |
| Number of potentials | 9 |

### Electrical parameters

| | |
|---|---|
| Nom. voltage | 160 V |

### Connection capacity

| | |
|---|---|
| Connection method | Push-in spring connection |
| pluggable | Yes |
| Conductor cross section solid | 0.14 mm² ... 0.5 mm² |
| Conductor cross section flexible | 0.14 mm² ... 0.5 mm² |
| Conductor cross section AWG / kcmil | 26 ... 20 |
| Stripping length | 11 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 |

### Dimensions for the product

| | |
|---|---|
| Length [ l ] | 12.6 mm |
| Width [ w ] | 25.36 mm |
| Height [ h ] | 17 mm |
| Pitch | 2.54 mm |
| Height (without solder pin) | 13.6 mm |
| Solder pin [P] | 3.4 mm |
| Pin spacing | 5.08 mm |
| Pin dimensions | 0.5 x 0.8 mm |
| Dimension a | 20.32 mm |

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## Technical data

### Dimensions for PCB design

| | |
|---|---|
| Hole diameter | 1.1 mm |
| Pin spacing | 5.08 mm |

### Packaging information

| | |
|---|---|
| Type of packaging | packed in cardboard |
| Pieces per package | 10 |
| 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 | 0.14 mm² / solid / > 7 N |
| | 0.14 mm² / flexible / > 7 N |
| | 0.5 mm² / solid / > 30 N |
| | 0.5 mm² / flexible / > 30 N |

### Electrical tests

| | |
|---|---|
| Rated current | 6 A |
| Conductor cross section | 0.5 mm² |
| Rated voltage (III/2) | 160 V |
| Rated surge voltage (III/2) | 2.5 kV |

### Air clearances and creepage distances

| | |
|---|---|
| Clearances and creepage distances | IEC 60664-1:2007-04 |
| Specification | IEC 60664-1:2007-04 |
| Rated insulation voltage (III/3) | 63 V |
| Rated insulation voltage (III/2) | 160 V |
| Rated insulation voltage (II/2) | 320 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 |
| Minimum clearance - inhomogeneous field (III/3) | 1.5 mm |
| Minimum clearance - inhomogeneous field (III/2) | 1.5 mm |
| Minimum clearance - inhomogeneous field (II/2) | 1.5 mm |

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## Technical data

### Air clearances and creepage distances

| | |
|---|---|
| Minimum creepage distance value (III/3) | 1.6 mm |
| Minimum creepage distance value (III/2) | 1.5 mm |
| Minimum creepage distance value (II/2) | 1.6 mm |

### 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 |

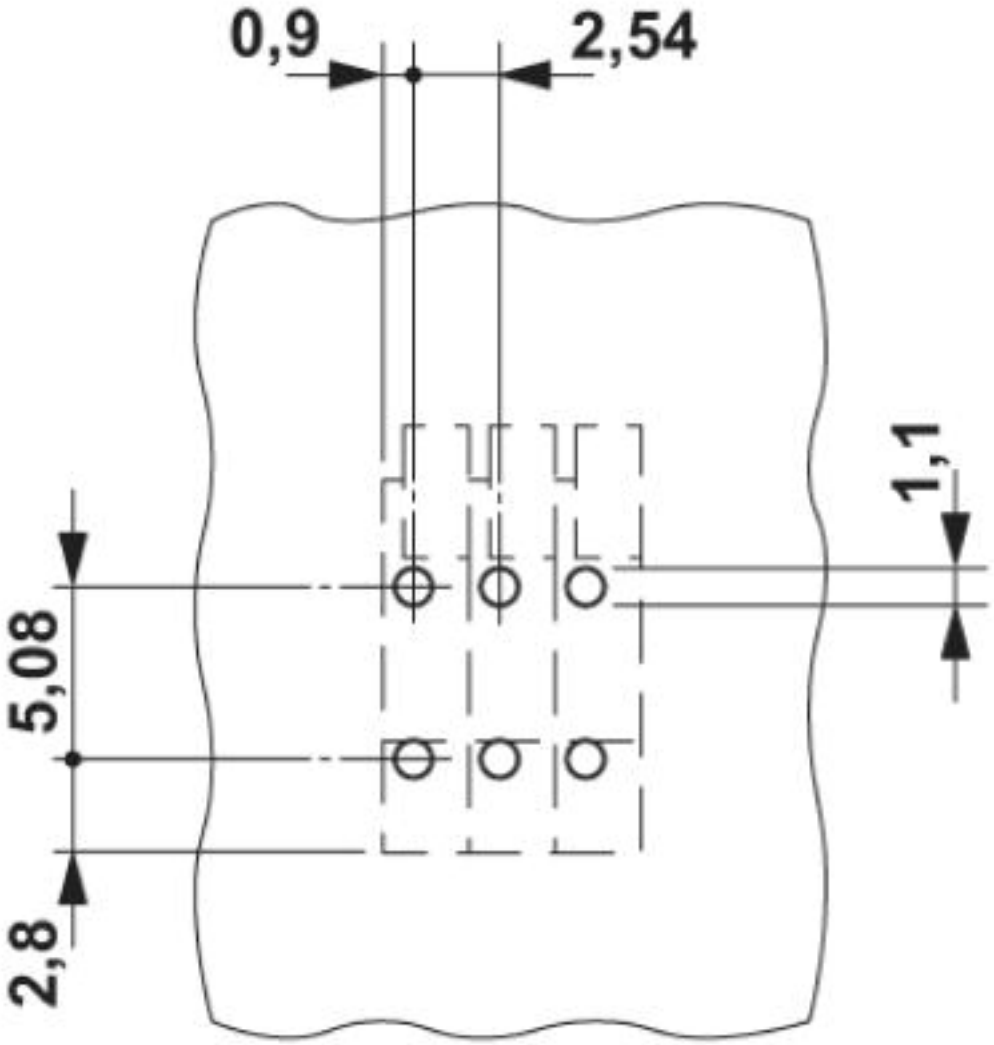
### Environmental Product Compliance

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

## Drawings

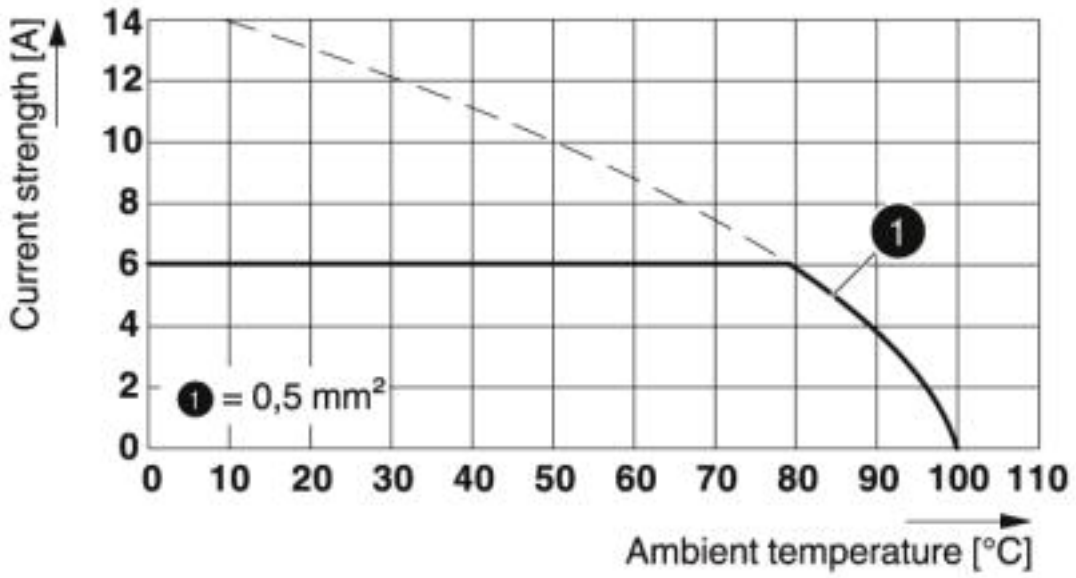
# PCB terminal block - FFKDSA1/V-2,54- 9 - 1888276

Drilling diagram



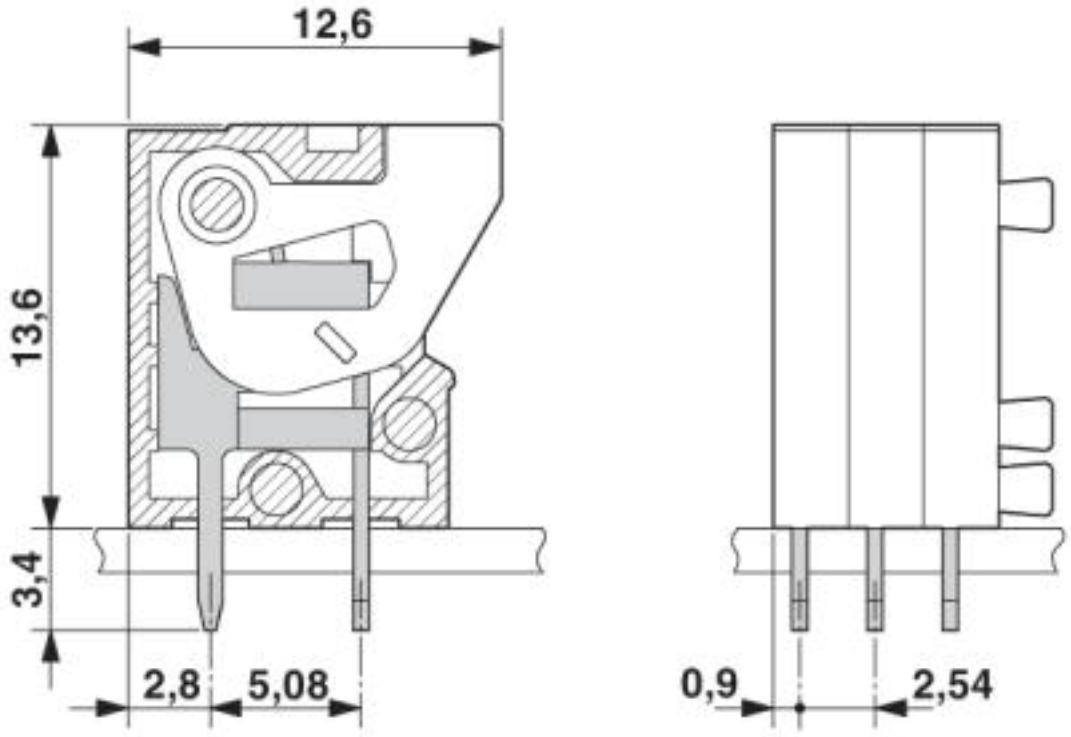
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Diagram




Type: FFKDS/V-2,54
Tested according to DIN EN 60512-5-2:2003-01
Reduction factor = 1
Number of positions: 5

Dimensional drawing



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## Approvals

### Approvals

Approvals

CSA / EAC / cULus Recognized

Ex Approvals

### Approval details

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

| | |
|---|---|
| | B |
| Nominal voltage UN | 150 V |
| Nominal current IN | 6 A |
| mm²/AWG/kcmil | 20 |

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

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

| | |
|---|---|
| | B |
| Nominal voltage UN | 150 V |
| Nominal current IN | 6 A |
| mm²/AWG/kcmil | 26-20 |

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