

# PCB terminal block - ZFKDSA 1,5-5,08- 4 - 1891496

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PCB terminal block, nominal current: 16 A, rated voltage (III/2): 400 V, nominal cross section: 1.5 mm<sup>2</sup>, pitch: 5.08 mm, number of positions: 4, connection method: Spring-cage connection, mounting: Wave soldering, conductor/PCB connection direction: 45 °, color: green, Pin layout: Linear double pinning, Solder pin [P]: 3.5 mm



The figure shows a 10-position version of the product

## Your advantages

- Defined contact force ensures that contact remains stable over the long term
- Clamping space opened by means of fixed screwdriver enables convenient conductor connection
- Angled connection enables multi-row arrangement on the PCB
- The latching on the side enables various numbers of positions to be combined
- Two solder pins reduce the mechanical strain on the soldering spots



## Key Commercial Data

|              |               |
|--------------|---------------|
| Packing unit | 50 pc         |
| GTIN         |               |
| GTIN         | 4017918173821 |

## Technical data

### Item properties

|                           |                        |
|---------------------------|------------------------|
| Brief article description | PCB terminal block     |
| Range of articles         | ZFKDS(A) 1,5           |
| Pitch                     | 5.08 mm                |
| Number of positions       | 4                      |
| Connection method         | Spring-cage connection |
| Mounting type             | Wave soldering         |
| Pin layout                | Linear double pinning  |
| Number of levels          | 1                      |
| Number of connections     | 4                      |
| Number of potentials      | 4                      |

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## Technical data

### Electrical parameters

|                             |       |
|-----------------------------|-------|
| Nominal current             | 16 A  |
| Nom. voltage                | 400 V |
| Rated voltage               | 250 V |
| Rated voltage (III/2)       | 400 V |
| Rated voltage (II/2)        | 630 V |
| Rated surge voltage (III/3) | 4 kV  |
| Rated surge voltage (III/2) | 4 kV  |
| Rated surge voltage (II/2)  | 4 kV  |

### Connection capacity

|   |  |
|---|--|
| Connection method   | Spring-cage connection                       |
| pluggable   | Yes  |
| Conductor cross section solid   | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>  |
| Conductor cross section flexible                                      | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>  |
| Conductor cross section AWG / kcmil                                   | 24 ... 14                                    |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross section, flexible, with ferrule, with plastic sleeve  | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Stripping length  | 7.5 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                  | hot-dip tin-plated  |
| Metal surface terminal point (top layer) | Tin (10 - 16 µm Sn)   |
| Metal surface soldering area (top layer) | Tin (10 - 16 µm Sn)   |

### Material data - housing

|   |              |
|---|--------------|
| Housing color   | green (6021) |
| 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 ]                | 16.9 mm  |
| Width [ w ]                 | 22.86 mm |
| Height [ h ]                | 17.7 mm  |
| Pitch                       | 5.08 mm  |
| Height (without solder pin) | 14.2 mm  |

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## Technical data

### Dimensions for the product

|                |            |
|----------------|------------|
| Solder pin [P] | 3.5 mm     |
| Pin spacing    | 5.08 mm    |
| Pin dimensions | 0.7 x 1 mm |

### Dimensions for PCB design

|               |         |
|---------------|---------|
| Hole diameter | 1.3 mm  |
| Pin spacing   | 5.08 mm |

### Packaging information

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

### Electrical tests

|                             |                     |
|-----------------------------|---------------------|
| Rated current               | 16 A                |
| Conductor cross section     | 1.5 mm <sup>2</sup> |
| Rated voltage (III/2)       | 400 V               |
| Rated surge voltage (III/2) | 4 kV                |

### 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          |

## Classifications

### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27440401 |
| 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 |

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## Classifications

### ETIM

|          |          |
|----------|----------|
| 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 / IECCE CB Scheme / EAC / cULus Recognized

#### Ex Approvals


### Approval details


|                            |   |   |       |
|----------------------------|---|---|-------|
| CSA                        |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|                            | B   | D   |       |
| Nominal voltage UN         | 300 V   | 300 V   |       |
| Nominal current IN         | 10 A  | 10 A  |       |
| mm <sup>2</sup> /AWG/kcmil | 28-12   | 28-12   |       |

|                            |             |
|----------------------------|-------------|
| CCA                        | NTR NL-7074 |
| Nominal voltage UN         | 250 V       |
| mm <sup>2</sup> /AWG/kcmil | 1.5         |


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## Approvals

|                            |   |   |            |
|----------------------------|---|---|------------|
| KEMA-KEUR                  |  | <a href="http://www.dekra-certification.com">http://www.dekra-certification.com</a> | 2160724.01 |
| Nominal voltage UN         |   | 250 V   |            |
| mm <sup>2</sup> /AWG/kcmil |   | 1.5   |            |

|                            |   |   |          |
|----------------------------|---|---|----------|
| IECEE CB Scheme            |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | NL-25836 |
| Nominal voltage UN         |   | 250 V   |          |
| mm <sup>2</sup> /AWG/kcmil |   | 1.5   |          |

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

|                            |   |   |                 |
|----------------------------|---|---|-----------------|
| 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> | E60425-19941110 |
|                            | B   | D   |                 |
| Nominal voltage UN         | 250 V   | 300 V   |                 |
| Nominal current IN         | 10 A  | 10 A  |                 |
| mm <sup>2</sup> /AWG/kcmil | 26-12   | 26-12   |                 |

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