

## PCB terminal block - ZFKKDSA 1,5-5,08-20 - 1701649

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PCB terminal block, nominal current: 12 A, rated voltage (III/2): 400 V, nominal cross section: 1.5 mm<sup>2</sup>, pitch: 5.08 mm, number of positions: 20, connection method: Spring-cage connection, mounting: Wave soldering, conductor/PCB connection direction: 45 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm

### 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
- ✓ Conductor connection on several levels enables higher contact density
- ✓ The latching on the side enables various numbers of positions to be combined



### Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 10 pc   |
| GTIN         | <br>4 046356 554466 |
| GTIN         | 4046356554466   |

### Technical data

#### Item properties

|                           |                        |
|---------------------------|------------------------|
| Brief article description | PCB terminal block     |
| Range of articles         | ZFKKDS(A) 1,5          |
| Pitch                     | 5.08 mm                |
| Number of positions       | 20                     |
| Connection method         | Spring-cage connection |
| Mounting type             | Wave soldering         |
| Pin layout                | Linear pinning         |
| Number of levels          | 2                      |
| Number of connections     | 40                     |
| Number of potentials      | 40                     |

#### Electrical parameters

|                 |      |
|-----------------|------|
| Nominal current | 12 A |
|-----------------|------|

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### Technical data

#### Electrical parameters

|                             |       |
|-----------------------------|-------|
| 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 ]                | 24 mm    |
| Width [ w ]                 | 102.6 mm |
| Height [ h ]                | 29 mm    |
| Pitch                       | 5.08 mm  |
| Height (without solder pin) | 25.5 mm  |
| Solder pin [P]              | 3.5 mm   |

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## Technical data

### Dimensions for the product

|                |            |
|----------------|------------|
| Pin spacing    | 15.24 mm   |
| Pin dimensions | 0.7 x 1 mm |

### Dimensions for PCB design

|               |          |
|---------------|----------|
| Hole diameter | 1.3 mm   |
| Pin spacing   | 15.24 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) |

### Electrical tests

|                             |                     |
|-----------------------------|---------------------|
| Rated current               | 12 A                |
| Conductor cross section     | 1.5 mm <sup>2</sup> |
| Rated voltage (III/2)       | 400 V               |
| Rated surge voltage (III/2) | 4 kV                |

### Air clearances and creepage distances

|   |                     |
|---|---------------------|
| Clearances and creepage distances               | IEC 60664-1:2007-04 |
| Specification                                   | IEC 60664-1:2007-04 |
| Minimum clearance - inhomogeneous field (III/3) | 3 mm                |
| Minimum clearance - inhomogeneous field (III/2) | 2 mm                |
| Minimum clearance - inhomogeneous field (II/2)  | 3 mm                |
| Minimum creepage distance value (III/3)         | 3.2 mm              |
| Minimum creepage distance value (III/2)         | 2 mm                |
| Minimum creepage distance value (II/2)          | 3.2 mm              |

### 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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## Classifications

### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27440401 |
| eCl@ss 4.0    | 27260700 |
| eCl@ss 4.1    | 27260700 |
| eCl@ss 5.0    | 27260700 |
| 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

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#### Approvals

CSA / EAC / cULus Recognized

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#### Ex Approvals

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### Approval details

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## Approvals

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

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