

## PCB terminal block - SMKDSN 1,5/ 3 - 1869075

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PCB terminal block, nominal current: 13.5 A, nom. voltage: 400 V, pitch: 5 mm, number of positions: 3, connection method: Screw connection with tension sleeve, mounting: Wave soldering, conductor/PCB connection direction: 45 °, color: green




The figure shows a 10-position version of the product

### Your advantages

- ✓ Well-known connection principle allows worldwide use
- ✓ Low temperature rise, thanks to maximum contact force
- ✓ Allows connection of two conductors
- ✓ Angled connection enables multi-row arrangement on the PCB
- ✓ Extremely small design for the respective conductor cross section



### Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 250 pc  |
| GTIN         | <br>4 017918 149048 |
| GTIN         | 4017918149048   |

### Technical data

#### Dimensions

|                |         |
|----------------|---------|
| Length [ l ]   | 12 mm   |
| Pitch          | 5 mm    |
| Dimension a    | 10 mm   |
| Width [ w ]    | 16 mm   |
| Height         | 11 mm   |
| Height [ h ]   | 14.5 mm |
| Solder pin [P] | 3.5 mm  |
| Hole diameter  | 1.3 mm  |

#### General

|                   |            |
|-------------------|------------|
| Range of articles | SMKDSN 1,5 |
|-------------------|------------|

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## Technical data

### General

|  |                     |
|--|---------------------|
| Insulating material group              | I                   |
| Rated surge voltage (III/3)            | 4 kV                |
| Rated surge voltage (III/2)            | 4 kV                |
| Rated surge voltage (II/2)             | 4 kV                |
| Rated voltage (III/3)                  | 250 V               |
| Rated voltage (III/2)                  | 400 V               |
| Rated voltage (II/2)                   | 630 V               |
| Connection in acc. with standard       | EN-VDE              |
| Nominal current I <sub>N</sub>         | 13.5 A              |
| Nominal cross section                  | 1.5 mm <sup>2</sup> |
| Maximum load current                   | 13.5 A              |
| Insulating material                    | PA                  |
| Flammability rating according to UL 94 | V0                  |
| Internal cylindrical gage              | A1                  |
| Stripping length                       | 6 mm                |
| Number of positions                    | 3                   |
| Screw thread                           | M3                  |
| Tightening torque, min                 | 0.5 Nm              |
| Tightening torque max                  | 0.6 Nm              |

### Connection data

|   |                      |
|---|----------------------|
| Conductor cross section solid min.  | 0.14 mm <sup>2</sup> |
| Conductor cross section solid max.  | 1.5 mm <sup>2</sup>  |
| Conductor cross section flexible min.   | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible max.   | 1.5 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule without plastic sleeve min.              | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max.              | 1.5 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule with plastic sleeve min.                 | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                 | 1.5 mm <sup>2</sup>  |
| Conductor cross section AWG min.  | 26                   |
| Conductor cross section AWG max.  | 16                   |
| 2 conductors with same cross section, solid min.  | 0.14 mm <sup>2</sup> |
| 2 conductors with same cross section, solid max.  | 0.75 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded min.                                     | 0.14 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded max.                                     | 0.75 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.   | 0.25 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.   | 0.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.5 mm <sup>2</sup>  |

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## Technical data

### Connection data

|   |                   |
|---|-------------------|
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 1 mm <sup>2</sup> |
|---|-------------------|

### Standards and Regulations

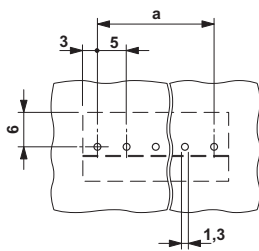
|  |        |
|--|--------|
| Connection in acc. with standard       | EN-VDE |
|  | CSA    |
| Flammability rating according to UL 94 | V0     |

### Environmental Product Compliance

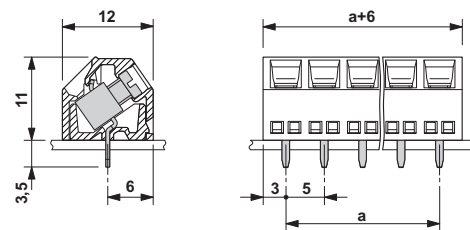
|            |   |
|------------|---|
|            | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 50  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Drawings

Drilling diagram



Dimensional drawing



## Approvals

### Approvals

#### Approvals

CSA / IECCEB Scheme / SEV / 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 |
|                    | D     | B   |       |
| Nominal voltage UN | 300 V | 150 V   |       |


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### Approvals

|                            | D     | B     |
|----------------------------|-------|-------|
| Nominal current IN         | 10 A  | 10 A  |
| mm <sup>2</sup> /AWG/kcmil | 28-14 | 28-14 |

|                            |   |   |         |
|----------------------------|---|---|---------|
| IECEE CB Scheme            |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | CH-8225 |
| Nominal voltage UN         | 250 V   |   |         |
| Nominal current IN         | 13.5 A  |   |         |
| mm <sup>2</sup> /AWG/kcmil | 1.5   |   |         |

|                            |   |   |            |
|----------------------------|---|---|------------|
| SEV                        |  | <a href="https://www.electrosuisse.ch/de/meta/shop/produktezertifikate.html">https://www.electrosuisse.ch/de/meta/shop/produktezertifikate.html</a> | IK-3542-M1 |
| Nominal voltage UN         | 250 V   |   |            |
| Nominal current IN         | 13.5 A  |   |            |
| mm <sup>2</sup> /AWG/kcmil | 1.5   |   |            |

|     |   |  |         |
|-----|---|--|---------|
| 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> | E60425-19770427 |
|----------------------------|---|---|-----------------|
|                            | D   | B   |                 |
| Nominal voltage UN         | 300 V   | 300 V   |                 |
| Nominal current IN         | 10 A  | 10 A  |                 |
| mm <sup>2</sup> /AWG/kcmil | 30-14   | 30-14   |                 |

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