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# PCB terminal block - MKDS 1,5/ 9-5,08 - 1715815

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PCB terminal block, nominal current: 17.5 A, nom. voltage: 400 V, pitch: 5.08 mm, number of positions: 9, connection method: Screw connection with tension sleeve, mounting: Wave soldering, conductor/PCB connection direction: 0°, color: green. The article can be aligned to create different nos. of positions!




The figure shows a 10-position version of the product

## Why buy this product

- Well-known connection principle allows worldwide use
- Low temperature rise, thanks to maximum contact force
- Allows connection of two conductors
- The latching on the side enables various numbers of positions to be combined



## Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 50 STK  |
| GTIN         | <br>4 017918 341473 |
| GTIN         | 4017918341473   |

## Technical data

### Dimensions

|                       |              |
|-----------------------|--------------|
| Length [ l ]          | 9.8 mm       |
| Pitch                 | 5.08 mm      |
| Dimension a           | 40.64 mm     |
| Width [ w ]           | 45.72 mm     |
| Constructional height | 13.8 mm      |
| Height [ h ]          | 17.3 mm      |
| Solder pin [P]        | 3.5 mm       |
| Pin dimensions        | 0,9 x 0,9 mm |
| Hole diameter         | 1.3 mm       |

### General

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

# PCB terminal block - MKDS 1,5/ 9-5,08 - 1715815

## 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 $I_N$                  | 17.5 A              |
| Nominal cross section                  | 1.5 mm <sup>2</sup> |
| Maximum load current                   | 22 A                |
| Insulating material                    | PA                  |
| Flammability rating according to UL 94 | V0                  |
| Internal cylindrical gage              | A1                  |
| Stripping length                       | 7 mm                |
| Number of positions                    | 9                   |
| 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.  | 2.5 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.  | 14                   |
| 2 conductors with same cross section, solid min.  | 0.14 mm <sup>2</sup> |
| 2 conductors with same cross section, solid max.  | 1 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>  |

# PCB terminal block - MKDS 1,5/ 9-5,08 - 1715815

## 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

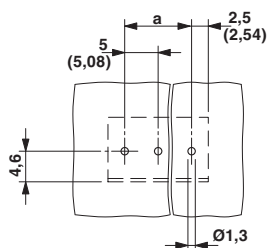
|  |        |
|--|--------|
| Connection in acc. with standard       | EN-VDE |
|  | CSA    |
| Flammability rating according to UL 94 | V0     |

### Environmental Product Compliance

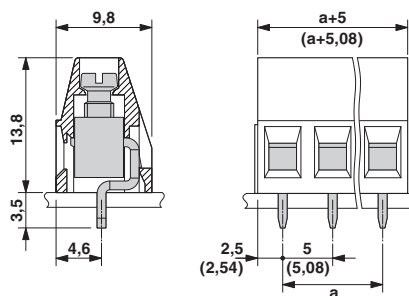
|            |   |
|------------|---|
| REACH SVHC | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 50  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Drawings

Drilling diagram



Dimensional drawing



## Approvals

### Approvals

#### Approvals

CSA / SEV / CCA / EAC / cULus Recognized / DNV GL / IECCE CB Scheme

#### 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 | 300 V   |       |

# PCB terminal block - MKDS 1,5/ 9-5,08 - 1715815

## Approvals

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

|                            |       |   |         |
|----------------------------|-------|---|---------|
| SEV                        |       | <a href="https://www.electrosuisse.ch/en/meta/shop/product-certificates.html">https://www.electrosuisse.ch/en/meta/shop/product-certificates.html</a> | IK-4199 |
| Nominal voltage UN         | 250 V |   |         |
| Nominal current IN         | 24 A  |   |         |
| mm <sup>2</sup> /AWG/kcmil | 2.5   |   |         |

|                            |       |  |         |
|----------------------------|-------|--|---------|
| CCA                        |       |  | IK-3249 |
| Nominal voltage UN         | 250 V |  |         |
| mm <sup>2</sup> /AWG/kcmil | 2.5   |  |         |

|     |  |         |  |
|-----|--|---------|--|
| 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  | 15 A  |                 |
| mm <sup>2</sup> /AWG/kcmil | 30-14 | 30-14   |                 |

|        |   |            |
|--------|---|------------|
| DNV GL | <a href="http://exchange.dnv.com/tari/">http://exchange.dnv.com/tari/</a> | TAE00001EV |
|--------|---|------------|

|                            |       |   |         |
|----------------------------|-------|---|---------|
| IECEE CB Scheme            |       | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | CH-8225 |
| Nominal voltage UN         | 250 V |   |         |
| Nominal current IN         | 24 A  |   |         |
| mm <sup>2</sup> /AWG/kcmil | 2.5   |   |         |

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