

## PCB terminal block - MK4DS 1,5/ 2-5,08-BCD BG - 1712694

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PCB terminal block, nominal current: 15 A, nom. voltage: 400 V, pitch: 5.08 mm, number of positions: 2, connection method: Screw connection with tension sleeve, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: Pebble gray. The article can be aligned to create different nos. of positions!

The figure shows a 10-pos. version of the product in green

### Your advantages

- ✓ Well-known connection principle allows worldwide use
- ✓ Low temperature rise, thanks to maximum contact force
- ✓ Allows connection of two conductors
- ✓ 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 | 50 pc                                                                                |
| GTIN         |  |
| GTIN         | 4046356086776                                                                        |

### Technical data

#### Item properties

|                           |                                      |
|---------------------------|--------------------------------------|
| Brief article description | PCB terminal block                   |
| Range of articles         | MK4DS 1,5                            |
| Pitch                     | 5.08 mm                              |
| Number of positions       | 2                                    |
| Connection method         | Screw connection with tension sleeve |
| Drive form screw head     | Slotted (L)                          |
| Screw thread              | M3                                   |
| Mounting type             | Wave soldering                       |
| Pin layout                | Linear pinning                       |
| Number of levels          | 4                                    |

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## Technical data

### Electrical parameters

|                                  |       |
|----------------------------------|-------|
| Rated current                    | 15 A  |
| Rated insulation voltage (III/2) | 400 V |
| Rated surge voltage (III/2)      | 4 kV  |

### Connection capacity

|                                                                                        |                                               |
|----------------------------------------------------------------------------------------|-----------------------------------------------|
| Conductor cross section solid                                                          | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>  |
| Conductor cross section flexible                                                       | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>  |
| Conductor cross section AWG / kcmil                                                    | 26 ... 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>  |
| 2 conductors with same cross section, solid                                            | 0.14 mm <sup>2</sup> ... 1 mm <sup>2</sup>    |
| 2 conductors with same cross section, flexible                                         | 0.14 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve        | 0.25 mm <sup>2</sup> ... 0.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, with TWIN ferrules with plastic sleeve | 0.5 mm <sup>2</sup> ... 0.5 mm <sup>2</sup>   |
| Stripping length                                                                       | 7 mm                                          |
| Torque                                                                                 | 0.5 Nm ... 0.6 Nm                             |

### 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 (5 - 7 µm Sn)                                                                 |
| Metal surface soldering area (top layer) | Tin (5 - 7 µm Sn)                                                                 |

### 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 ]                | 42.9 mm      |
| Width [ w ]                 | 12.65 mm     |
| Height [ h ]                | 51.5 mm      |
| Pitch                       | 5.08 mm      |
| Height (without solder pin) | 48 mm        |
| Solder pin [P]              | 3.5 mm       |
| Pin dimensions              | 0.9 x 0.9 mm |

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## Technical data

### Dimensions for the product

|             |         |
|-------------|---------|
| Dimension a | 5.08 mm |
|-------------|---------|

### Dimensions for PCB design

|               |        |
|---------------|--------|
| Hole diameter | 1.3 mm |
|---------------|--------|

### Packaging information

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

### Electrical tests

|                                  |       |
|----------------------------------|-------|
| Rated current                    | 15 A  |
| Rated insulation voltage (III/2) | 400 V |
| Rated surge voltage (III/2)      | 4 kV  |

### Air clearances and creepage distances

|                                  |       |
|----------------------------------|-------|
| Insulating material group        | I     |
| Voltage                          | 250 V |
| Rated insulation voltage (III/3) | 250 V |
| Rated insulation voltage (III/2) | 400 V |
| Rated insulation 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  |

### Standards and Regulations

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

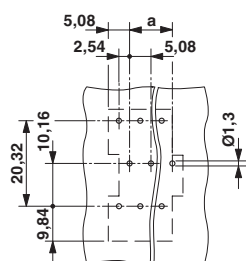
### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| 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" |

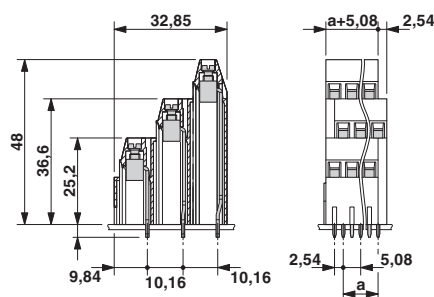
## Drawings

## PCB terminal block - MK4DS 1,5/ 2-5,08-BCD BG - 1712694

Drilling diagram



Dimensional drawing



### Approvals

#### Approvals

#### Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

#### Ex Approvals

#### Approval details

|                            |                                                                                     |                                                                                                                                                       |              |
|----------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| UL 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> | FILE E 60425 |
|                            | D                                                                                   | B                                                                                                                                                     |              |
| Nominal voltage UN         | 300 V                                                                               | 125 V                                                                                                                                                 |              |
| Nominal current IN         | 10 A                                                                                | 10 A                                                                                                                                                  |              |
| mm <sup>2</sup> /AWG/kcmil | 30-14                                                                               | 30-14                                                                                                                                                 |              |

|                            |                                                                                     |                                                                                                                                                       |              |
|----------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| cUL 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> | FILE E 60425 |
|                            | D                                                                                   | B                                                                                                                                                     |              |
| Nominal voltage UN         | 300 V                                                                               | 125 V                                                                                                                                                 |              |
| Nominal current IN         | 10 A                                                                                | 10 A                                                                                                                                                  |              |
| mm <sup>2</sup> /AWG/kcmil | 30-14                                                                               | 30-14                                                                                                                                                 |              |

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

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### Approvals

cULus Recognized



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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
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