

## PCB terminal block - MKDS 10 HV/ 7-ZB-10,16 - 1709733

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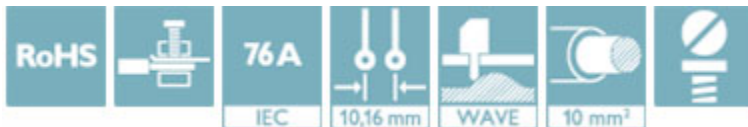


PCB terminal block, nominal current: 76 A, pitch: 10.16 mm, number of positions: 7, connection method: Screw connection with tension sleeve, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green

The figure shows a 5-pos. 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
- ✓ Unrestricted 600-V-UL approval thanks to compact zig-zag pinning
- ✓ Integrated protective guide prevents incorrect insertion of the conductor underneath the tension sleeve



### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 pc                                                                                                    |
| Minimum order quantity               | 50 pc                                                                                                   |
| GTIN                                 | <br>4 046356 074155 |
| GTIN                                 | 4046356074155                                                                                           |
| Weight per Piece (excluding packing) | 56.740 g                                                                                                |
| Custom tariff number                 | 85369010                                                                                                |
| Country of origin                    | Germany                                                                                                 |

### Technical data

#### Dimensions

|              |          |
|--------------|----------|
| Length [ l ] | 18.7 mm  |
| Pitch        | 10.16 mm |
| Dimension a  | 60.96 mm |

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## Technical data

### Dimensions

|                |          |
|----------------|----------|
| Width [ w ]    | 71.12 mm |
| Height         | 30.8 mm  |
| Height [ h ]   | 35.8 mm  |
| Solder pin [P] | 5 mm     |
| Hole diameter  | 1.5 mm   |

### General

|                                        |                                                        |
|----------------------------------------|--------------------------------------------------------|
| Range of articles                      | MKDS 10 HV                                             |
| Insulating material group              | I                                                      |
| Rated surge voltage (III/3)            | 8 kV                                                   |
| Rated surge voltage (III/2)            | 8 kV                                                   |
| Rated surge voltage (II/2)             | 8 kV                                                   |
| Rated voltage (III/3)                  | 800 V                                                  |
| Rated voltage (III/2)                  | 1000 V                                                 |
| Rated voltage (II/2)                   | 1000 V                                                 |
| Connection in acc. with standard       | EN-VDE                                                 |
| Nominal current $I_N$                  | 76 A                                                   |
| Nominal cross section                  | 10 mm <sup>2</sup>                                     |
| Maximum load current                   | 76 A (with 16 mm <sup>2</sup> conductor cross section) |
| Insulating material                    | PA                                                     |
| Flammability rating according to UL 94 | V0                                                     |
| Internal cylindrical gage              | B6                                                     |
| Stripping length                       | 10 mm                                                  |
| Number of positions                    | 7                                                      |
| Screw thread                           | M4                                                     |
| Tightening torque, min                 | 1.2 Nm                                                 |
| Tightening torque max                  | 1.5 Nm                                                 |

### Connection data

|                                                                            |                     |
|----------------------------------------------------------------------------|---------------------|
| Conductor cross section solid min.                                         | 0.5 mm <sup>2</sup> |
| Conductor cross section solid max.                                         | 16 mm <sup>2</sup>  |
| Conductor cross section flexible min.                                      | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible max.                                      | 16 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 16 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule with plastic sleeve min.    | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.    | 16 mm <sup>2</sup>  |
| Conductor cross section AWG min.                                           | 20                  |

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### Technical data

#### Connection data

|                                                                                         |                     |
|-----------------------------------------------------------------------------------------|---------------------|
| Conductor cross section AWG max.                                                        | 6                   |
| 2 conductors with same cross section, solid min.                                        | 0.5 mm <sup>2</sup> |
| 2 conductors with same cross section, solid max.                                        | 6 mm <sup>2</sup>   |
| 2 conductors with same cross section, stranded min.                                     | 0.5 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded max.                                     | 6 mm <sup>2</sup>   |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.   | 0.5 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.   | 4 mm <sup>2</sup>   |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.5 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 6 mm <sup>2</sup>   |

#### Standards and Regulations

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

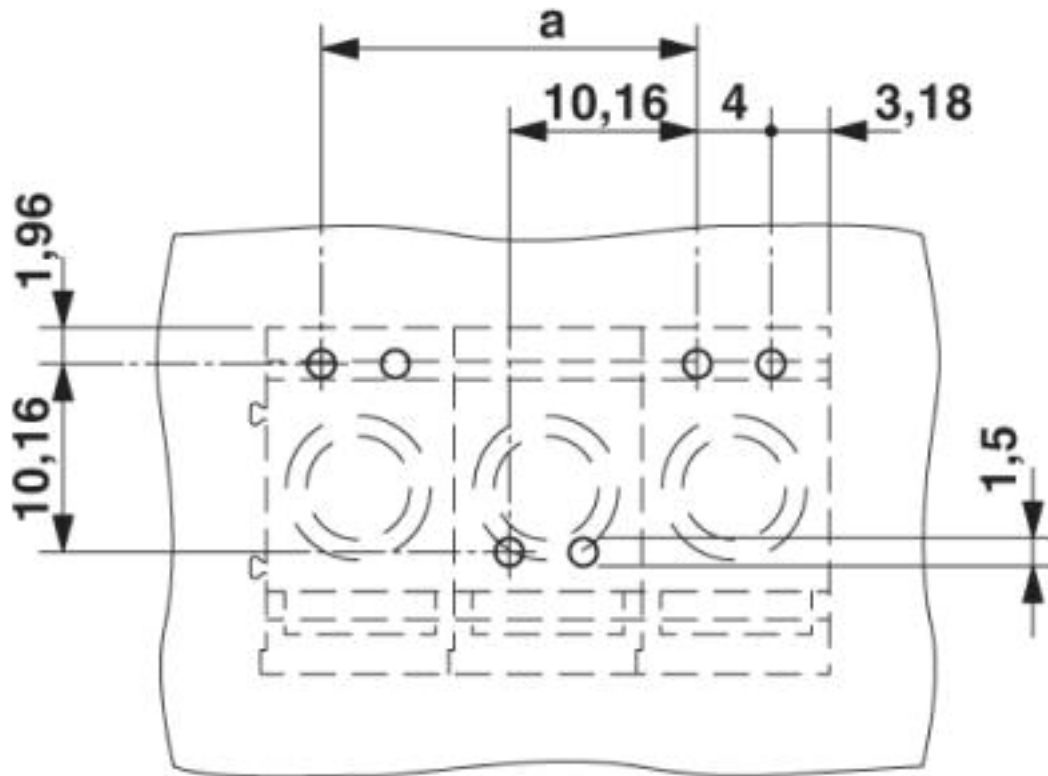
#### Environmental Product Compliance

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

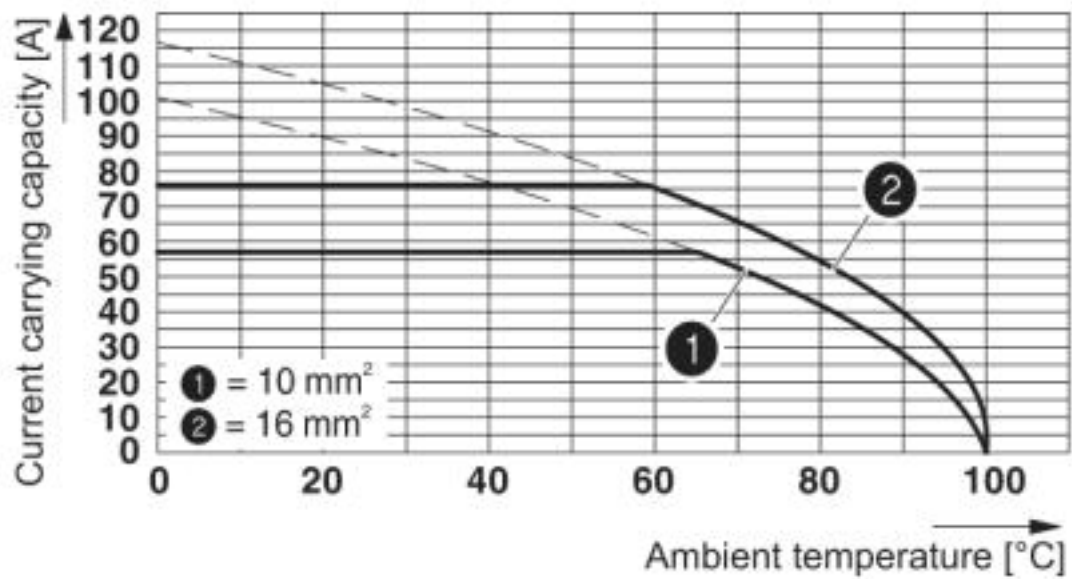
### Drawings

## PCB terminal block - MKDS 10 HV/ 7-ZB-10,16 - 1709733

Drilling diagram

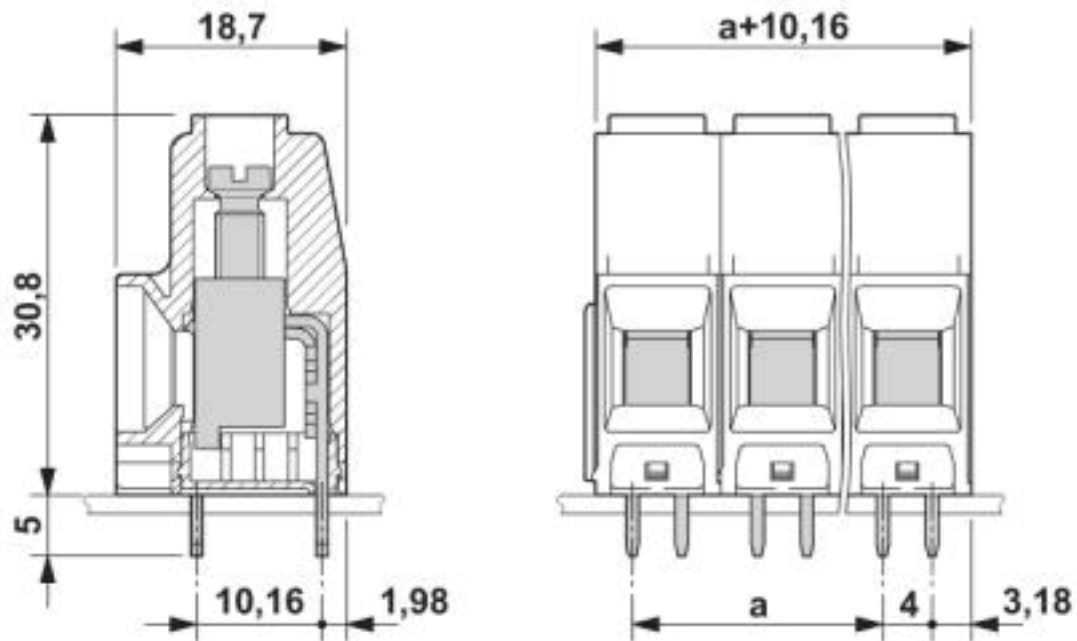


Diagram



## PCB terminal block - MKDS 10 HV/ 7-ZB-10,16 - 1709733

Dimensional drawing



The figure shows the dimensional drawing of the 3-pos. version of the product

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| 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 |
| ETIM 5.0 | EC002643 |
| ETIM 6.0 | EC002643 |
| ETIM 7.0 | EC002643 |

## PCB terminal block - MKDS 10 HV/ 7-ZB-10,16 - 1709733

### Classifications

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211801 |
| UNSPSC 7.0901 | 39121432 |
| UNSPSC 11     | 39121432 |
| UNSPSC 12.01  | 39121432 |
| UNSPSC 13.2   | 39121432 |

### Approvals

#### Approvals

#### Approvals

IECEE CB Scheme / SEV / EAC / cULus Recognized

#### Ex Approvals

#### Approval details

|                    |                                                                                     |                                                           |         |
|--------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------|---------|
| IECEE CB Scheme    |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | CH-8225 |
| Nominal voltage UN | 800 V                                                                               |                                                           |         |
| Nominal current IN | 76 A                                                                                |                                                           |         |
| mm²/AWG/kcmil      | 10                                                                                  |                                                           |         |

|                    |                                                                                     |                                                                                                                                                     |            |
|--------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 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 | 800 V                                                                               |                                                                                                                                                     |            |
| Nominal current IN | 76 A                                                                                |                                                                                                                                                     |            |
| mm²/AWG/kcmil      | 10                                                                                  |                                                                                                                                                     |            |

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

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## Approvals

|                    |                                                                                   |                                                                                                                                                       |                 |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 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 |
|                    | B                                                                                 | C                                                                                                                                                     |                 |
| Nominal voltage UN | 600 V                                                                             | 600 V                                                                                                                                                 |                 |
| Nominal current IN | 60 A                                                                              | 60 A                                                                                                                                                  |                 |
| mm²/AWG/kcmil      | 20-6                                                                              | 20-6                                                                                                                                                  |                 |

## Accessories

### Accessories

#### Crimping tool

Crimping pliers - CRIMPFOX 6 - 1212034



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.25 mm² ... 6.0 mm², lateral entry, trapezoidal crimp

Crimping pliers - CRIMPFOX 16 S - 1207983



Crimping pliers for ferrules up to 16 mm²

#### Screwdriver tools

Screwdriver - SZS 0,6X3,5 - 1205053



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

## Terminal marking

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### Accessories

Marker strip - SK 5,0 WH:REEL - 0805221



Marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 5 mm, lettering field size: continuous x 5 mm, Number of individual labels: 90000