

## Single PCB terminal block - MKDS 10 HV/ 4-ZB-10,16 - 1709704

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PCB terminal block, Nominal current: 76 A, Nom. voltage: 1000 V, Pitch: 10.16 mm, Number of positions: 4, Connection method: Screw connection, Mounting: Soldering, Conductor/PCB connection direction: 0 °, Color: green

The figure shows a 5-pos. version of the product

### Product Features

- ✓ Compact high-capacity PCB terminal blocks with screw connection up to 16 mm<sup>2</sup>, stranded, and a current carrying capacity of 76 A
- ✓ 10.16 mm pitch
- ✓ Unlimited 600 V UL approval thanks to zigzag pinning
- ✓ Terminal block bases that can be mounted side by side to create any number of positions

### Key commercial data

|                  |               |
|------------------|---------------|
| package_quantity | 50            |
| GTIN             | 4046356074186 |

### Technical data

#### Dimensions

|                |            |
|----------------|------------|
| Length         | 18.8 mm    |
| Height         | 31 mm      |
| Pitch          | 10.16 mm   |
| Dimension a    | 30.48 mm   |
| Pin dimensions | 1 x 0,9 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 <sub>N</sub>   | 76 A               |
| Nominal cross section            | 10 mm <sup>2</sup> |

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## Technical data

### General

|                                         |                                                        |
|-----------------------------------------|--------------------------------------------------------|
| Maximum load current                    | 76 A (with 16 mm <sup>2</sup> conductor cross section) |
| Insulating material                     | PA                                                     |
| Solder pin surface                      | Sn                                                     |
| Inflammability class according to UL 94 | V0                                                     |
| Internal cylindrical gage               | B 6                                                    |
| Stripping length                        | 10 mm                                                  |
| Number of positions                     | 4                                                      |
| 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 stranded min.                                                   | 0.5 mm <sup>2</sup> |
| Conductor cross section stranded max.                                                   | 16 mm <sup>2</sup>  |
| Conductor cross section stranded, with ferrule without plastic sleeve min.              | 0.5 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule without plastic sleeve max.              | 16 mm <sup>2</sup>  |
| Conductor cross section stranded, with ferrule with plastic sleeve min.                 | 0.5 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule with plastic sleeve max.                 | 16 mm <sup>2</sup>  |
| Conductor cross section AWG/kcmil min.                                                  | 20                  |
| Conductor cross section AWG/kcmil 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>   |
| Minimum AWG according to UL/CUL                                                         | 20                  |
| Maximum AWG according to UL/CUL                                                         | 6                   |

## classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27141109 |
|------------|----------|

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## classifications

### eCl@ss

|                   |          |
|-------------------|----------|
| <b>eCl@ss 4.1</b> | 27141109 |
| <b>eCl@ss 5.0</b> | 27141190 |
| <b>eCl@ss 5.1</b> | 27141190 |
| <b>eCl@ss 6.0</b> | 27261101 |
| <b>eCl@ss 7.0</b> | 27440401 |
| <b>eCl@ss 8.0</b> | 27440401 |

### ETIM

|                 |          |
|-----------------|----------|
| <b>ETIM 3.0</b> | EC001121 |
| <b>ETIM 4.0</b> | EC002643 |
| <b>ETIM 5.0</b> | EC002643 |

### UNSPSC

|                      |          |
|----------------------|----------|
| <b>UNSPSC 6.01</b>   | 30211801 |
| <b>UNSPSC 7.0901</b> | 39121432 |
| <b>UNSPSC 11</b>     | 39121432 |
| <b>UNSPSC 12.01</b>  | 39121432 |
| <b>UNSPSC 13.2</b>   | 39121432 |

## approvals

UL Recognized / SEV / cUL Recognized / IECCEB Scheme / GOST / CCA / GOST / cULus Recognized /

### Approval details

| <b>UL Recognized</b>  |          |          |
|----------------------------------------------------------------------------------------------------------|----------|----------|
| <b>Usegroups</b>                                                                                         | <b>B</b> | <b>C</b> |
| Nominal voltage UN                                                                                       | 600 V    | 600 V    |
| Nominal current IN                                                                                       | 60 A     | 60 A     |
| mm²/AWG/kcmil                                                                                            | 20-6     | 20-6     |

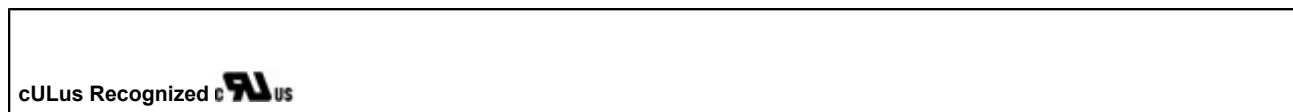
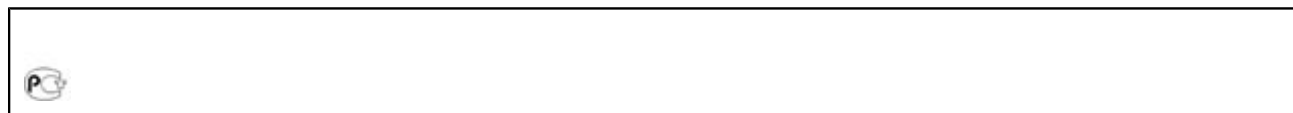
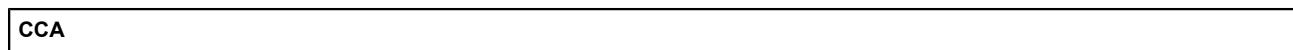
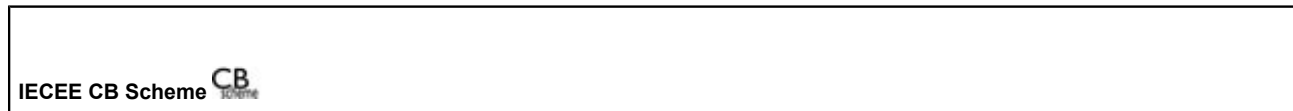
| <b>SEV</b>         |       |
|--------------------|-------|
| Nominal voltage UN | 800 V |
| Nominal current IN |       |
| mm²/AWG/kcmil      | 16    |

|                                                                                                           |
|-----------------------------------------------------------------------------------------------------------|
| <b>cUL Recognized</b>  |
|-----------------------------------------------------------------------------------------------------------|

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### approvals

| Usegroups                  | B     | C     |
|----------------------------|-------|-------|
| Nominal voltage UN         | 600 V | 600 V |
| Nominal current IN         | 60 A  | 60 A  |
| mm <sup>2</sup> /AWG/kcmil | 20-6  | 20-6  |



### accessories

#### Screwdriver tools

SZS 0,6X3,5 - 1205053



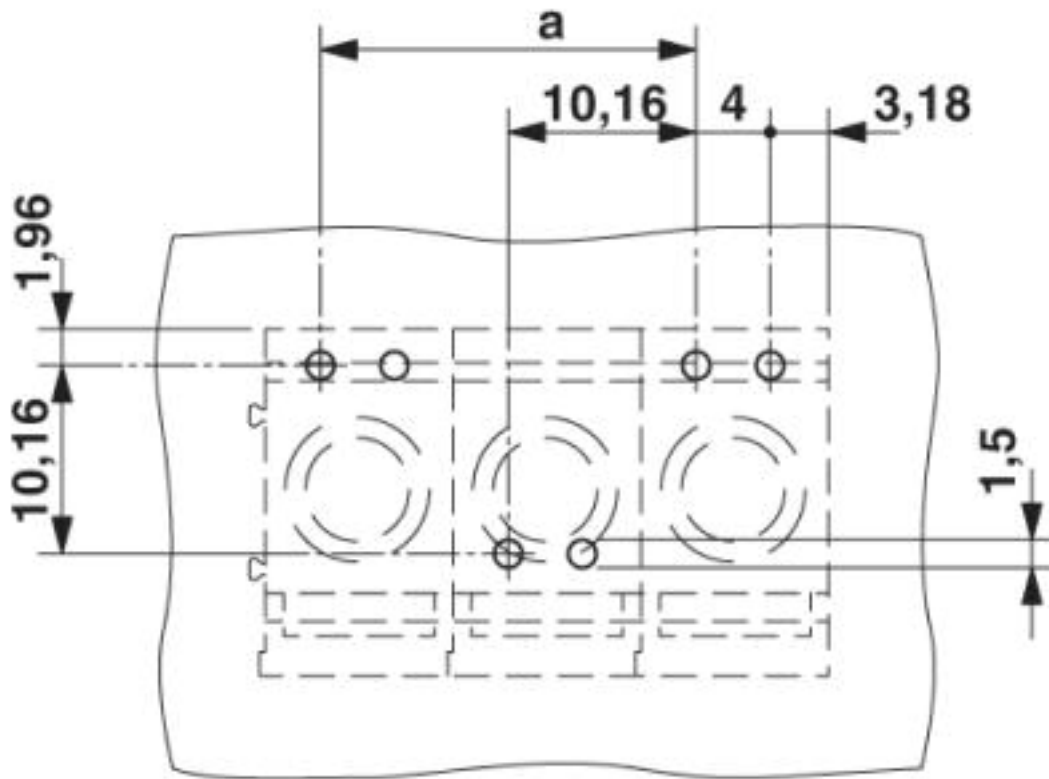
### accessories

SK 10/5: 0-9 - 0804688

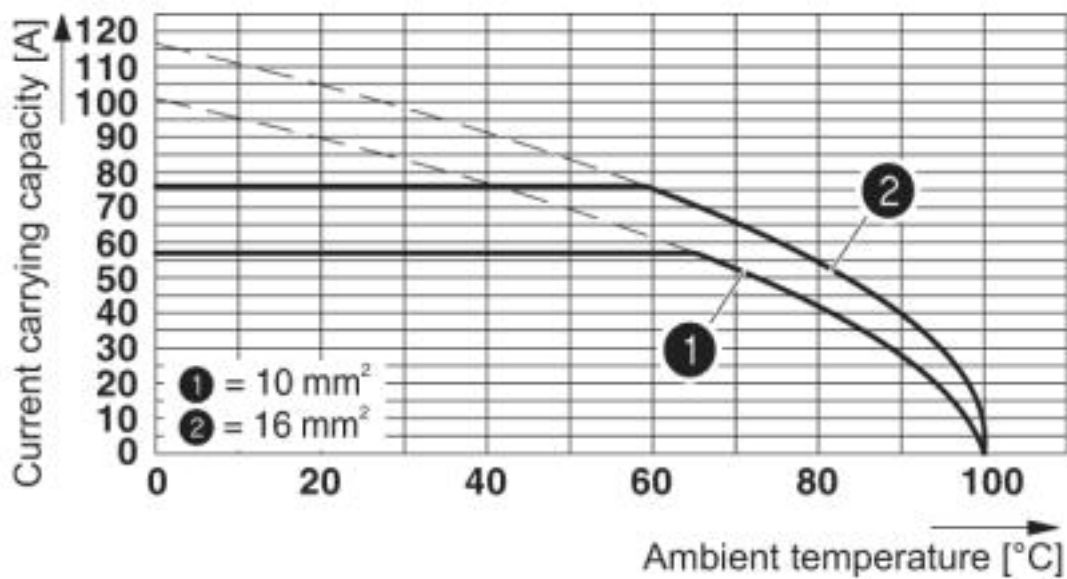
### Drawings

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Drilling diagram

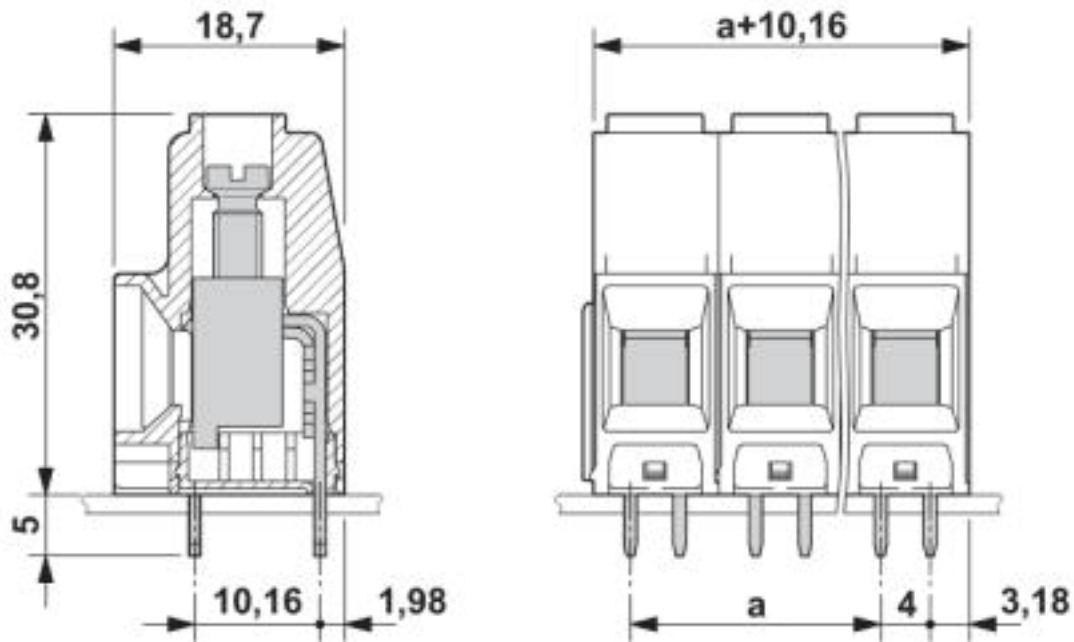


Diagram



## Single PCB terminal block - MKDS 10 HV/ 4-ZB-10,16 - 1709704

Dimensioned drawing



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

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