

## KDS10/SO

Order No.: 1704059

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

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1704059>

PCB terminal block, nominal current: 76 A, rated voltage: 630 V, pitch: 10.0 mm, number of positions: 1, mounting type: Soldering, connection method: Screw connection, connection direction from the conductor to the PCB: 0°

### Commercial data

|                          |                    |
|--------------------------|--------------------|
| EAN                      | 4017918023188      |
| Pack                     | 50 Pcs.            |
| Customs tariff           | 85369010           |
| Weight/Piece             | 0.01698 KG         |
| Catalog page information | Page 297 (CC-2007) |

### Product notes

WEEE/RoHS-compliant since:  
01/01/2003



<http://www.download.phoenixcontact.com>  
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

### Technical data

#### Dimensions / positions

|                     |            |
|---------------------|------------|
| Pitch               | 10 mm      |
| Number of positions | 1          |
| Pin dimensions      | 1 x 0,9 mm |

|                        |        |
|------------------------|--------|
| Hole diameter          | 1.4 mm |
| Screw thread           | M 4    |
| Tightening torque, min | 1.2 Nm |

**Technical data**

|                                    |                                                        |
|------------------------------------|--------------------------------------------------------|
| Insulating material group          | I                                                      |
| Rated surge voltage (III/3)        | 6 kV                                                   |
| Rated surge voltage (III/2)        | 6 kV                                                   |
| Rated surge voltage (II/2)         | 6 kV                                                   |
| Rated voltage (III/2)              | 630 V                                                  |
| Rated voltage (II/2)               | 1000 V                                                 |
| Connection in acc. with standard   | EN-VDE                                                 |
| Nominal current $I_N$              | 76 A                                                   |
| Nominal voltage $U_N$              | 630 V                                                  |
| Nominal cross section              | 16 mm <sup>2</sup>                                     |
| Maximum load current               | 76 A (with 16 mm <sup>2</sup> conductor cross section) |
| Insulating material                | PA                                                     |
| Inflammability class acc. to UL 94 | V0                                                     |
| Internal cylindrical gage          | B6                                                     |
| Stripping length                   | 12 mm                                                  |

**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.                                      | 10 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. | 10 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.    | 10 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.                                        | 4 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.                                     | 4 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.   | 2.5 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>   |

### Certificates / Approvals

#### Approval logo



#### CSA

|                                |       |
|--------------------------------|-------|
| Nominal voltage U <sub>N</sub> | 300 V |
| Nominal current I <sub>N</sub> | 65 A  |
| AWG/kcmil                      | 18-6  |

#### CUL

|                                |       |
|--------------------------------|-------|
| Nominal voltage U <sub>N</sub> | 600 V |
| Nominal current I <sub>N</sub> | 65 A  |
| AWG/kcmil                      | 24-6  |

#### UL

|                                |                        |
|--------------------------------|------------------------|
| Nominal voltage U <sub>N</sub> | 600 V                  |
| Nominal current I <sub>N</sub> | 65 A                   |
| AWG/kcmil                      | 24-6                   |
| Certification                  | CSA, CUL, GL, GOST, UL |

**Accessories**

| Item | Designation | Description |
|------|-------------|-------------|
|------|-------------|-------------|

**Assembly**

|         |          |                                                                                                          |
|---------|----------|----------------------------------------------------------------------------------------------------------|
| 1701065 | RZ-KDS10 | Pitch spacer, raises the pitch by 2.5 mm, interlocks with terminal block of the same shape, color: green |
|---------|----------|----------------------------------------------------------------------------------------------------------|

**Bridges**

|         |           |                                                                                   |
|---------|-----------|-----------------------------------------------------------------------------------|
| 0203276 | FBI 10-10 | Fixed bridge, 10-pos., screw heads with insulating collar, divisible, with screws |
|---------|-----------|-----------------------------------------------------------------------------------|

**Marking**

|         |                       |                                                                                                               |
|---------|-----------------------|---------------------------------------------------------------------------------------------------------------|
| 1053014 | ZB10,LGS:FORTL.ZAHLEN | Zack strip, 10-section, printed horizontally: with the numbers, 1-10, 11-20 etc. up to 991-1000, color: white |
|---------|-----------------------|---------------------------------------------------------------------------------------------------------------|

**Plug/Adapter**

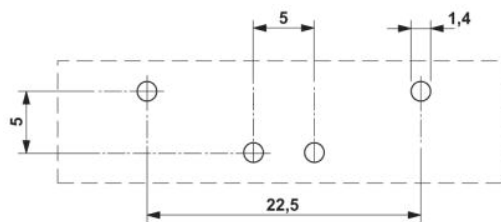
|         |           |                                                                                             |
|---------|-----------|---------------------------------------------------------------------------------------------|
| 0303299 | PSB 4/7/6 | Test plug socket, not insulated, length: 7 mm, screw thread width: 4 mm, socket width: 6 mm |
|---------|-----------|---------------------------------------------------------------------------------------------|

**Tools**

|         |             |                                                                                                                                                     |
|---------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 1205066 | SZS 1,0X4,0 | Screwdriver, bladed, matches all screw terminal blocks with 10 mm <sup>2</sup> and 16 mm <sup>2</sup> connection cross section, blade: 1.0 x 4.0 mm |
|---------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|

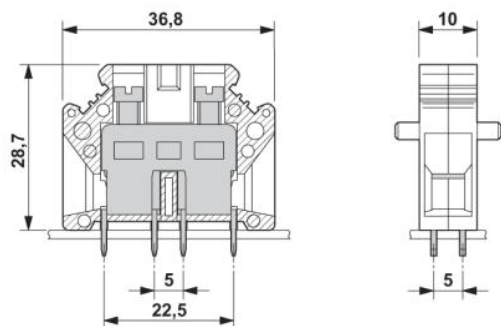
**Drawings**

Drilling diagram



Dimensioned drawing

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