# PCB terminal block - KDS10 - 1704020

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

PCB terminal block, Nominal current: 76 A, Nom. voltage: 320 V, Pitch: 10 mm, Number of positions: 1, Connection method: Screw connection, Mounting: Soldering, Conductor/PCB connection direction: 0 °, Color: green, The article can be aligned to create different nos. of positions!

## Product Features

- Potential distribution by means of bridges
- High-capacity PCB terminal blocks with a current carrying capacity of up to 76 A at the solder connection
- Individual adjustment of voltage requirements using RZ pitch spacers
- Can also be used as a feed-through terminal block up to 76 A

## Key commercial data

| | |
|---|---|
| **package_quantity** | 50 |
| **GTIN** | 4017918023164 |

## Technical data

### Dimensions

| | |
|---|---|
| **Length** | 36.8 mm |
| **Pitch** | 10 mm |
| **Pin dimensions** | 1 x 0,9 mm |
| **Hole diameter** | 1.4 mm |

### General

| | |
|---|---|
| **Range of articles** | KDS10 |
| **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)** | 320 V |
| **Rated voltage (II/2)** | 630 V |
| **Connection in acc. with standard** | EN-VDE |
| **Nominal current $I_N$** | 76 A |
| **Nominal cross section** | 10 mm² |
| **Maximum load current** | 76 A (with 16 mm² conductor cross section) |
| **Insulating material** | PA |

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## Technical data

### General

| | |
|---|---|
| **Solder pin surface** | Sn |
| **Inflammability class according to UL 94** | V0 |
| **Internal cylindrical gage** | B 6 |
| **Stripping length** | 12 mm |
| **Number of positions** | 1 |
| **Screw thread** | M4 |
| **Tightening torque, min** | 1.2 Nm |
| **Tightening torque max** | 1.5 Nm |

### Connection data

| | |
|---|---|
| **Conductor cross section solid min.** | 0.5 mm² |
| **Conductor cross section solid max.** | 16 mm² |
| **Conductor cross section stranded min.** | 0.5 mm² |
| **Conductor cross section stranded max.** | 10 mm² |
| **Conductor cross section stranded, with ferrule without plastic sleeve min.** | 0.5 mm² |
| **Conductor cross section stranded, with ferrule without plastic sleeve max.** | 10 mm² |
| **Conductor cross section stranded, with ferrule with plastic sleeve min.** | 0.5 mm² |
| **Conductor cross section stranded, with ferrule with plastic sleeve max.** | 10 mm² |
| **Conductor cross section AWG/kcmil min.** | 20 |
| **Conductor cross section AWG/kcmil max** | 6 |
| **2 conductors with same cross section, solid min.** | 0.5 mm² |
| **2 conductors with same cross section, solid max.** | 4 mm² |
| **2 conductors with same cross section, stranded min.** | 0.5 mm² |
| **2 conductors with same cross section, stranded max.** | 4 mm² |
| **2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.** | 0.5 mm² |
| **2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.** | 2.5 mm² |
| **2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.** | 0.5 mm² |
| **2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.** | 6 mm² |
| **Minimum AWG according to UL/CUL** | 24 |
| **Maximum AWG according to UL/CUL** | 6 |

## classifications

### eCl@ss

| | |
|---|---|
| **eCl@ss 4.0** | 27141109 |
| **eCl@ss 4.1** | 27141109 |
| **eCl@ss 5.0** | 27141190 |

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## classifications

### eCl@ss

| | |
|---|---|
| **eCl@ss 5.1** | 27141190 |
| **eCl@ss 6.0** | 27261101 |
| **eCl@ss 7.0** | 27440401 |
| **eCl@ss 8.0** | 27440401 |

### ETIM

| | |
|---|---|
| **ETIM 3.0** | EC001121 |
| **ETIM 4.0** | EC002643 |
| **ETIM 5.0** | EC002643 |

### UNSPSC

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

## approvals

CSA / UL Recognized / SEV / cUL Recognized / GOST / GL / RS / CCA / GOST / cULus Recognized /

### Approval details

**CSA**

| **Usegroups** | **B** | **C** |
|---|---|---|
| Nominal voltage UN | 300 V | 300 V |
| Nominal current IN | 65 A | 65 A |
| mm²/AWG/kcmil | 18-6 | 18-6 |

**UL Recognized**

| **Usegroups** | **B** | **C** | **D** |
|---|---|---|---|
| Nominal voltage UN | 250 V | 300 V | 600 V |
| Nominal current IN | 65 A | 65 A | 5 A |
| mm²/AWG/kcmil | 24-6 | 24-6 | 24-6 |

| **SEV** | |
|---|---|
| | |
| Nominal voltage UN | 400 V |

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## approvals

| | |
|---|---|
| Nominal current IN | |
| mm²/AWG/kcmil | 16 |

**cUL Recognized**

| Usegroups | B | C | D |
|---|---|---|---|
| Nominal voltage UN | 250 V | 300 V | 600 V |
| Nominal current IN | 65 A | 65 A | 5 A |
| mm²/AWG/kcmil | 24-6 | 24-6 | 24-6 |

**GOST**

**GL**

**RS**

**CCA**

| | |
|---|---|
| Nominal voltage UN | 400 V |
| Nominal current IN | |
| mm²/AWG/kcmil | 16 |

**cULus Recognized**

## accessories

### Pitch spacer

RZ-KDS10 - 1701065

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accessories

**Bridge**

FBI 10-10 - 0203276

**Test socket**

PSB 4/7/6 - 0303299

**Screwdriver tools**

SZS 1,0X4,0 VDE - 1205066

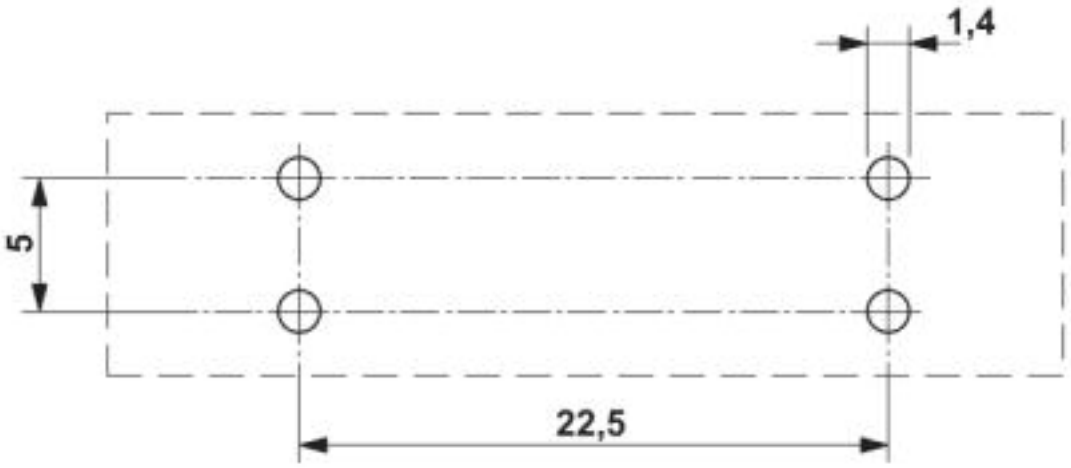
**Labeled terminal marker**

ZB10,LGS:FORTL.ZAHLEN - 1053014

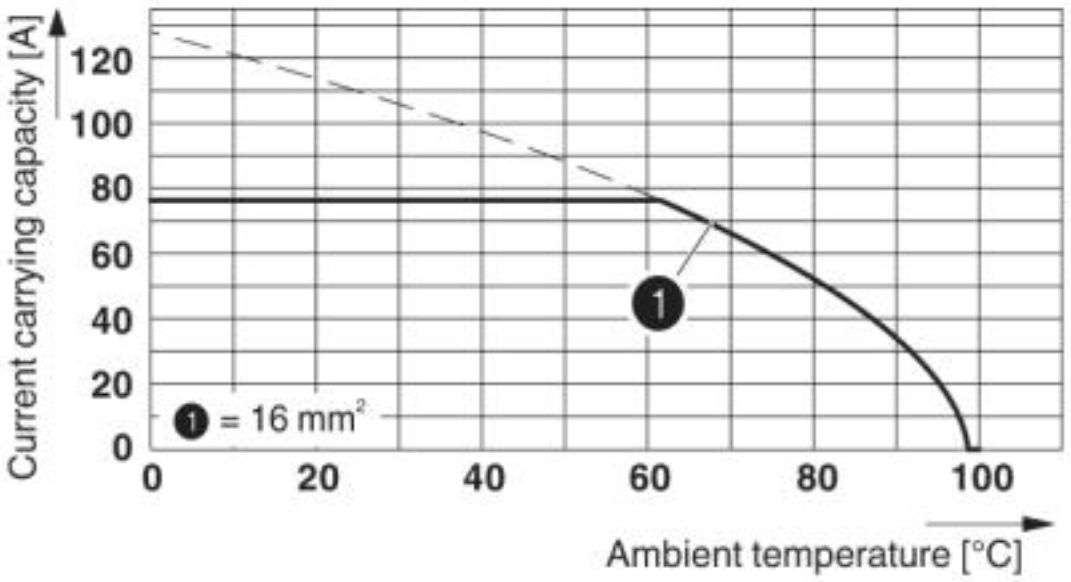
## Drawings

# PCB terminal block - KDS10 - 1704020

Drilling diagram




Diagram




Type: KDS 10Test following DIN EN 60512-5-2:2003-01Reduction factor = 1No. of positions: 5

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Dimensioned drawing