

## PCB terminal block - MKDS 1/ 6-3,81 SMD BK - 1727272

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PCB terminal block, Nominal current: 8 A, Nom. voltage: 160 V, Pitch: 3.81 mm, Number of positions: 6, Connection method: Screw connection with tension sleeve, Mounting: SMD soldering, Conductor/PCB connection direction: 0 °, Color: black



The figure shows a 10-position version of the product

### Product Features

- Type of packaging: tube magazine
- Standard PCB terminal block types made from high-temperature-resistant plastics
- Box packaging or tape-on-reel packing according to IEC 60286-3 for automated mounting available on request
- Use in SMT reflow processes



### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 pc                                                                                                    |
| Minimum order quantity               | 17 pc                                                                                                   |
| GTIN                                 | <br>4 017918 025649 |
| Weight per Piece (excluding packing) | 6.29 g                                                                                                  |
| Custom tariff number                 | 85369010                                                                                                |
| Country of origin                    | Poland                                                                                                  |

### Technical data

#### Dimensions

|                       |          |
|-----------------------|----------|
| Length                | 7.3 mm   |
| Pitch                 | 3.81 mm  |
| Dimension a           | 19.05 mm |
| Constructional height | 10 mm    |

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## Technical data

### Dimensions

|                          |      |
|--------------------------|------|
| Length of the solder pin | 2 mm |
|--------------------------|------|

### General

|                                        |                                                        |
|----------------------------------------|--------------------------------------------------------|
| Range of articles                      | MKDS 1/...SMD                                          |
| Insulating material group              | IIIa                                                   |
| Rated surge voltage (III/3)            | 2.5 kV                                                 |
| Rated surge voltage (III/2)            | 2.5 kV                                                 |
| Rated surge voltage (II/2)             | 2.5 kV                                                 |
| Rated voltage (III/3)                  | 160 V                                                  |
| Rated voltage (III/2)                  | 160 V                                                  |
| Rated voltage (II/2)                   | 250 V                                                  |
| Connection in acc. with standard       | EN-VDE                                                 |
| Nominal current $I_N$                  | 8 A                                                    |
| Nominal cross section                  | 1 mm <sup>2</sup>                                      |
| Maximum load current                   | 8 A (with 1.5 mm <sup>2</sup> conductor cross section) |
| Insulating material                    | PA-F                                                   |
| Solder pin surface                     | Sn                                                     |
| Flammability rating according to UL 94 | V0                                                     |
| Stripping length                       | 5 mm                                                   |
| Number of positions                    | 6                                                      |
| Screw thread                           | M2                                                     |
| Tightening torque, min                 | 0.22 Nm                                                |
| Tightening torque max                  | 0.25 Nm                                                |

### Connection data

|                                                                            |                      |
|----------------------------------------------------------------------------|----------------------|
| Conductor cross section solid min.                                         | 0.14 mm <sup>2</sup> |
| Conductor cross section solid max.                                         | 1.5 mm <sup>2</sup>  |
| Conductor cross section flexible min.                                      | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible max.                                      | 1 mm <sup>2</sup>    |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 0.5 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule with plastic sleeve min.    | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.    | 0.5 mm <sup>2</sup>  |
| Conductor cross section AWG min.                                           | 26                   |
| Conductor cross section AWG max.                                           | 16                   |
| 2 conductors with same cross section, solid min.                           | 0.14 mm <sup>2</sup> |
| 2 conductors with same cross section, solid max.                           | 0.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded min.                        | 0.14 mm <sup>2</sup> |

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## Technical data

### Connection data

|                                                     |                     |
|-----------------------------------------------------|---------------------|
| 2 conductors with same cross section, stranded max. | 0.2 mm <sup>2</sup> |
|-----------------------------------------------------|---------------------|

### Standards and Regulations

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

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27141109 |
| eCl@ss 4.1 | 27141109 |
| eCl@ss 5.0 | 27141190 |
| eCl@ss 5.1 | 27141190 |
| eCl@ss 6.0 | 27261101 |
| 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 |

### UNSPSC

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

## Approvals

### Approvals

#### Approvals

CSA / EAC / EAC / cULus Recognized / cULus Recognized

## PCB terminal block - MKDS 1/ 6-3,81 SMD BK - 1727272

### Approvals

Ex Approvals

Approvals submitted

### Approval details

|                                                                                       |       |       |
|---------------------------------------------------------------------------------------|-------|-------|
| CSA  |       |       |
|                                                                                       | B     | D     |
| mm²/AWG/kcmil                                                                         | 28-16 | 28-16 |
| Nominal current I <sub>N</sub>                                                        | 10 A  | 10 A  |
| Nominal voltage U <sub>N</sub>                                                        | 150 V | 300 V |

|     |
|-----|
| EAC |
|-----|

|     |
|-----|
| EAC |
|-----|

|                                |       |       |
|--------------------------------|-------|-------|
| cULus Recognized               |       |       |
|                                | B     | D     |
| mm²/AWG/kcmil                  | 30-16 | 30-16 |
| Nominal current I <sub>N</sub> | 10 A  | 10 A  |
| Nominal voltage U <sub>N</sub> | 300 V | 300 V |

|                                                                                                      |
|------------------------------------------------------------------------------------------------------|
| cULus Recognized  |
|------------------------------------------------------------------------------------------------------|

### Accessories

Accessories

Labeled terminal marker

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## Accessories

Marker card - SK 3,81/2,8:FORTL.ZAHLEN - 0804109



Marker card, Card, white, labeled, Horizontal: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - (99)100, Mounting type: Adhesive, for terminal block width: 3.81 mm, Lettering field: 3.81 x 2.8 mm

## Screwdriver tools

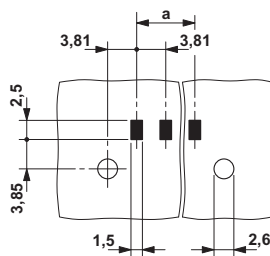
Screwdriver - SZS 0,4X2,5 VDE - 1205037



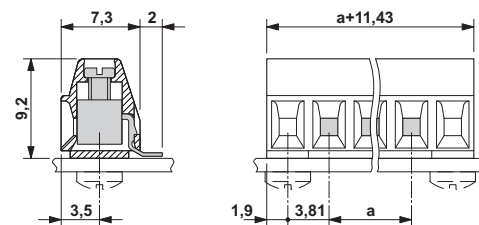
Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip

## Drawings

### Drilling diagram



## Dimensional drawing



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