

## PCB terminal block - MKDS 1/ 3-3,81 SMD BK - 1727243

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://download.phoenixcontact.com>)

PCB terminal block, Nominal current: 8 A, Nom. voltage: 160 V, Pitch: 3.81 mm, Number of positions: 3, Connection method: Screw connection, Mounting: SMD/THT/THR, Conductor/PCB connection direction: 0 °, Color: black



The figure shows a 10-position version of the product

### Why buy this product

- 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   |
| Minimum order quantity | 28  |
| Catalog page           | Page 74 (CC-2011)   |
| GTIN                   | <br>4 017918 025618 |
| Custom tariff number   | 85369010  |
| Country of origin      | POLAND  |

### Technical data

#### Dimensions / positions

|                        |         |
|------------------------|---------|
| Length                 | 7.3 mm  |
| Pitch                  | 3.81 mm |
| Dimension a            | 7.62 mm |
| Number of positions    | 3       |
| Screw thread           | M2      |
| Tightening torque, min | 0.22 Nm |
| Tightening torque max  | 0.25 Nm |

#### Technical data

|                           |               |
|---------------------------|---------------|
| Range of articles         | MKDS 1/..-SMD |
| Insulating material group | IIIa          |

# PCB terminal block - MKDS 1/ 3-3,81 SMD BK - 1727243

## Technical data

### Technical data

|   |  |
|---|--|
| 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 <sub>N</sub>          | 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   |
| Inflammability class according to UL 94 | V0   |
| Stripping length                        | 5 mm   |
| Nominal voltage, UL/CUL Use Group B     | 300 V  |
| Nominal current, UL/CUL Use Group B     | 10 A   |
| Nominal voltage, UL/CUL Use Group D     | 300 V  |
| Nominal current, UL/CUL Use Group D     | 10 A   |

### 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 stranded min.                                      | 0.14 mm <sup>2</sup> |
| Conductor cross section stranded max.                                      | 1 mm <sup>2</sup>    |
| Conductor cross section stranded, with ferrule without plastic sleeve min. | 0.25 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule without plastic sleeve max. | 0.5 mm <sup>2</sup>  |
| Conductor cross section stranded, with ferrule with plastic sleeve min.    | 0.25 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule with plastic sleeve max.    | 0.5 mm <sup>2</sup>  |
| Conductor cross section AWG/kcmil min.                                     | 26                   |
| Conductor cross section AWG/kcmil 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> |
| 2 conductors with same cross section, stranded max.                        | 0.2 mm <sup>2</sup>  |
| Minimum AWG according to UL/CUL  | 30                   |
| Maximum AWG according to UL/CUL  | 16                   |

## Classifications

### eclass

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

# PCB terminal block - MKDS 1/ 3-3,81 SMD BK - 1727243

## Classifications

### eclass

|            |          |
|------------|----------|
| 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 |

### 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 / UL Recognized / cUL Recognized / GOST / cULus Recognized

#### Ex Approvals

#### Approvals submitted

### Approval details

|   |       |       |
|---|-------|-------|
|  |       |       |
|   | B     | D     |
| mm <sup>2</sup> /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 |

# PCB terminal block - MKDS 1/ 3-3,81 SMD BK - 1727243

## Approvals

UL Recognized

|                            |        | B      | D |
|----------------------------|--------|--------|---|
| mm <sup>2</sup> /AWG/kcmil | 30-16  | 30-16  |   |
| Nominal current IN         | 13.5 A | 13.5 A |   |
| Nominal voltage UN         | 300 V  | 150 V  |   |

cUL Recognized

|                            |        | B      | D |
|----------------------------|--------|--------|---|
| mm <sup>2</sup> /AWG/kcmil | 30-16  | 30-16  |   |
| Nominal current IN         | 13.5 A | 13.5 A |   |
| Nominal voltage UN         | 300 V  | 150 V  |   |

GOST

cULus Recognized

## Accessories

### Accessories

### Marking

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



Marker cards, 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

### Tools

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

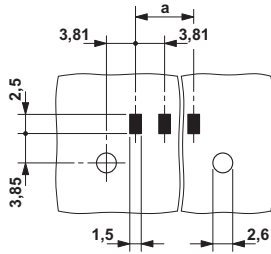


Screwdriver, bladed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip

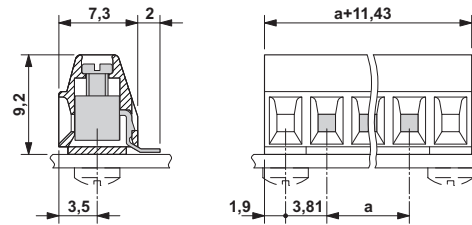
# PCB terminal block - MKDS 1/ 3-3,81 SMD BK - 1727243

## Drawings

Drilling diagram



Dimensioned drawing



© Phoenix Contact 2012 - all rights reserved  
<http://www.phoenixcontact.com>