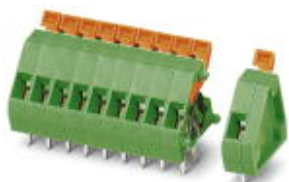


## PCB terminal block - ZFKDS 1-W-3,81 - 1705003

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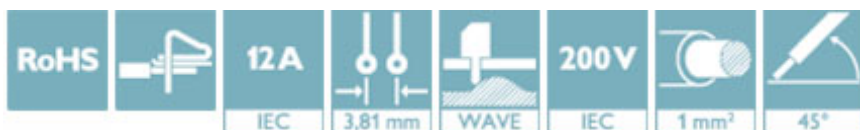


PCB terminal block, nominal current: 12 A, nom. voltage: 200 V, pitch: 3.81 mm, number of positions: 1, connection method: Spring-cage connection, mounting: Wave soldering, conductor/PCB connection direction: 45 °, color: green. Single module for the custom grouping of different numbers of positions. An end terminal block is also needed to terminate the block (see accessories). Blocked items with different numbers of positions are also available.

The figure shows the 10-position version

### Why buy this product

- ✓ Defined contact force ensures that contact remains stable over the long term
- ✓ Can be operated without tools by means of color-coded actuating lever
- ✓ Angled connection enables multi-row arrangement on the PCB
- ✓ The latching on the side enables various numbers of positions to be combined
- ✓ Two solder pins reduce the mechanical strain on the soldering spots



### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 50 STK                                                                                                  |
| Minimum order quantity               | 50 STK                                                                                                  |
| GTIN                                 | <br>4 017918 136222 |
| GTIN                                 | 4017918136222                                                                                           |
| Weight per Piece (excluding packing) | 1.090 g                                                                                                 |
| Custom tariff number                 | 85369010                                                                                                |
| Country of origin                    | Poland                                                                                                  |

### Technical data

#### Dimensions

|                       |         |
|-----------------------|---------|
| Length [ l ]          | 17.5 mm |
| Pitch                 | 3.81 mm |
| Width [ w ]           | 3.81 mm |
| Constructional height | 16 mm   |
| Height [ h ]          | 19.5 mm |
| Solder pin [ P ]      | 3.5 mm  |

# PCB terminal block - ZFKDS 1-W-3,81 - 1705003

## Technical data

### Dimensions

|                |            |
|----------------|------------|
| Pin dimensions | 0,7 x 1 mm |
| Hole diameter  | 1.2 mm     |

### General

|                                        |                                                         |
|----------------------------------------|---------------------------------------------------------|
| Range of articles                      | ZFKDS(A) 1-W                                            |
| Insulating material group              | I                                                       |
| 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)                  | 200 V                                                   |
| Rated voltage (II/2)                   | 400 V                                                   |
| Connection in acc. with standard       | EN-VDE                                                  |
| Nominal current $I_N$                  | 12 A                                                    |
| Nominal cross section                  | 1 mm <sup>2</sup>                                       |
| Maximum load current                   | 12 A (with 1.5 mm <sup>2</sup> conductor cross section) |
| Insulating material                    | PA                                                      |
| Solder pin surface                     | Sn                                                      |
| Flammability rating according to UL 94 | V0                                                      |
| Stripping length                       | 7.5 mm                                                  |
| Number of positions                    | 1                                                       |

### 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                   |

### Standards and Regulations

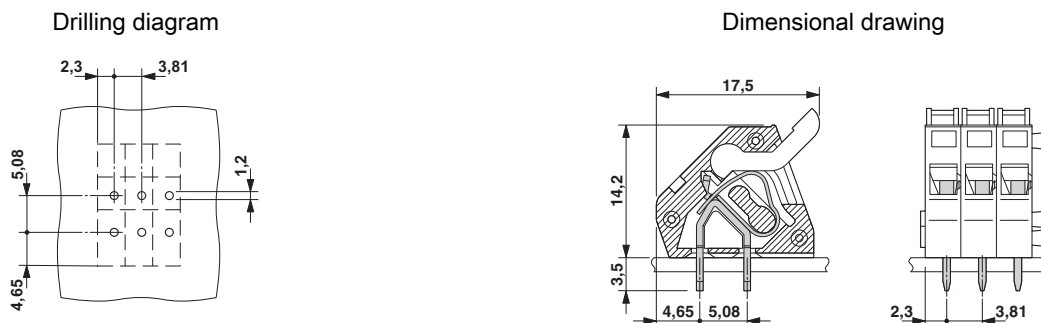
|                                        |        |
|----------------------------------------|--------|
| Connection in acc. with standard       | EN-VDE |
|                                        | CUL    |
| Flammability rating according to UL 94 | V0     |

### Environmental Product Compliance

|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

# PCB terminal block - ZFKDS 1-W-3,81 - 1705003

## Drawings



## 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 |
| ETIM 6.0 | EC002643 |

### UNSPSC

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

## Approvals

### Approvals

#### Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

## PCB terminal block - ZFKDS 1-W-3,81 - 1705003

### Approvals

Ex Approvals

#### Approval details

|                                |                                                                                   |                                                                                                                                                       |              |
|--------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| UL Recognized                  |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|                                | B                                                                                 | D                                                                                                                                                     |              |
| mm²/AWG/kcmil                  | 26-16                                                                             | 26-16                                                                                                                                                 |              |
| Nominal current I <sub>N</sub> | 10 A                                                                              | 10 A                                                                                                                                                  |              |
| Nominal voltage U <sub>N</sub> | 250 V                                                                             | 300 V                                                                                                                                                 |              |

|                                |                                                                                   |                                                                                                                                                       |              |
|--------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| cUL Recognized                 |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|                                | B                                                                                 | D                                                                                                                                                     |              |
| mm²/AWG/kcmil                  | 26-16                                                                             | 26-16                                                                                                                                                 |              |
| Nominal current I <sub>N</sub> | 10 A                                                                              | 10 A                                                                                                                                                  |              |
| Nominal voltage U <sub>N</sub> | 250 V                                                                             | 300 V                                                                                                                                                 |              |

|     |                                                                                     |         |
|-----|-------------------------------------------------------------------------------------|---------|
| EAC |  | B.01742 |
|-----|-------------------------------------------------------------------------------------|---------|

|                  |                                                                                     |                                                                                                                                                       |
|------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| cULus Recognized |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> |
|------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|

### Accessories

#### Accessories

##### Labeled terminal marker

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

## PCB terminal block - ZFKDS 1-W-3,81 - 1705003

### Accessories

Screwdriver - SZF 0-0,4X2,5 - 1204504



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.4 x 2.5 x 75 mm, 2-component grip, with non-slip grip

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### Necessary add-on products

PCB terminal block - ZFKDSA 1-W-6,35 - 1704994



PCB terminal block, nominal current: 12 A, nom. voltage: 200 V, pitch: 3.81 mm, number of positions: 1, connection method: Spring-cage connection, mounting: Wave soldering, conductor/PCB connection direction: 45 °, color: green. End terminal block for terminating custom-grouped blocks.