

## PCB terminal block - SMKDS 5/ 2-9,5 - 1720017

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PCB terminal block, Nominal current: 32 A, Nom. voltage: 1000 V, Pitch: 9.52 mm, Number of positions: 2, Connection method: Screw connection with tension sleeve, Mounting: Wave soldering, Conductor/PCB connection direction: 35 °, Color: green, The article can be aligned to create different nos. of positions!

### Why buy this product

- ✓ Well-known connection principle allows worldwide use
- ✓ Low temperature rise, thanks to maximum contact force
- ✓ Allows connection of two conductors
- ✓ The latching on the side enables various numbers of positions to be combined
- ✓ Angled connection enables multi-row arrangement on the PCB



### Key Commercial Data

|                                      |                                                                                      |
|--------------------------------------|--------------------------------------------------------------------------------------|
| Packing unit                         | 50 STK                                                                               |
| Minimum order quantity               | 50 STK                                                                               |
| GTIN                                 |  |
| GTIN                                 | 4017918024970                                                                        |
| Weight per Piece (excluding packing) | 6.520 g                                                                              |
| Custom tariff number                 | 85369010                                                                             |
| Country of origin                    | Poland                                                                               |

### Technical data

#### Dimensions

|                          |              |
|--------------------------|--------------|
| Length                   | 18.5 mm      |
| Pitch                    | 9.52 mm      |
| Dimension a              | 9.52 mm      |
| Constructional height    | 22 mm        |
| Length of the solder pin | 5 mm         |
| Pin dimensions           | 0,9 x 0,9 mm |
| Hole diameter            | 1.3 mm       |

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## Technical data

### General

|                                        |                   |
|----------------------------------------|-------------------|
| Range of articles                      | SMKDS 5           |
| 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/3)                  | 690 V             |
| Rated voltage (III/2)                  | 1000 V            |
| Rated voltage (II/2)                   | 1000 V            |
| Connection in acc. with standard       | EN-VDE            |
| Nominal current $I_N$                  | 32 A              |
| Nominal cross section                  | 4 mm <sup>2</sup> |
| Maximum load current                   | 32 A              |
| Insulating material                    | PA                |
| Solder pin surface                     | Sn                |
| Flammability rating according to UL 94 | V2                |
| Internal cylindrical gage              | A4                |
| Stripping length                       | 8 mm              |
| Number of positions                    | 2                 |
| Screw thread                           | M3                |
| Tightening torque, min                 | 0.5 Nm            |
| Tightening torque max                  | 0.6 Nm            |

### Connection data

|                                                                                       |                      |
|---------------------------------------------------------------------------------------|----------------------|
| Conductor cross section solid min.                                                    | 0.2 mm <sup>2</sup>  |
| Conductor cross section solid max.                                                    | 6 mm <sup>2</sup>    |
| Conductor cross section flexible min.                                                 | 0.2 mm <sup>2</sup>  |
| Conductor cross section flexible max.                                                 | 4 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.            | 4 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.               | 4 mm <sup>2</sup>    |
| Conductor cross section AWG min.                                                      | 24                   |
| Conductor cross section AWG max.                                                      | 10                   |
| 2 conductors with same cross section, solid min.                                      | 0.2 mm <sup>2</sup>  |
| 2 conductors with same cross section, solid max.                                      | 1.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded min.                                   | 0.2 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded max.                                   | 1.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. | 0.25 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. | 0.75 mm <sup>2</sup> |

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### Technical data

#### Connection data

|                                                                                         |                     |
|-----------------------------------------------------------------------------------------|---------------------|
| 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. | 2.5 mm <sup>2</sup> |

#### Standards and Regulations

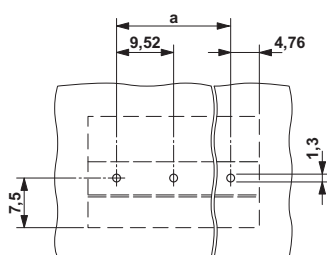
|                                        |        |
|----------------------------------------|--------|
| Connection in acc. with standard       | EN-VDE |
|                                        | CSA    |
| Flammability rating according to UL 94 | V2     |

#### Environmental Product Compliance

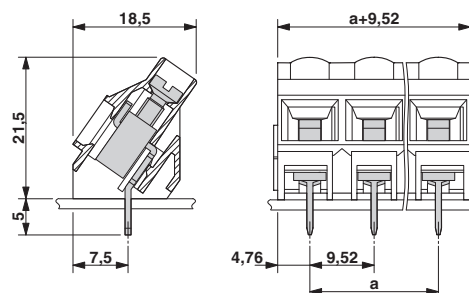
|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| China RoHS | Environmentally Friendly Use Period = 50                                                            |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

### Drawings

Drilling diagram



Dimensional drawing



### 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 |

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## Classifications

### 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 / SEV / cUL Recognized / CCA / EAC / cULus Recognized

#### Ex Approvals

### Approval details

|                                |                                                                                     |                                                                                                                                                                                           |       |
|--------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| CSA                            |  | <a href="http://www.csagroup.org/services/testing-and-certification/certified-product-listing/">http://www.csagroup.org/services/testing-and-certification/certified-product-listing/</a> | 13631 |
|                                | B                                                                                   | C                                                                                                                                                                                         |       |
| mm²/AWG/kcmil                  | 28-10                                                                               | 28-10                                                                                                                                                                                     |       |
| Nominal current I <sub>N</sub> | 30 A                                                                                | 30 A                                                                                                                                                                                      |       |
| Nominal voltage U <sub>N</sub> | 300 V                                                                               | 300 V                                                                                                                                                                                     |       |

|                                |                                                                                     |                                                                                                                                                       |              |
|--------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 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                                                                                   | C                                                                                                                                                     |              |
| mm²/AWG/kcmil                  | 30-10                                                                               | 30-10                                                                                                                                                 |              |
| Nominal current I <sub>N</sub> | 30 A                                                                                | 30 A                                                                                                                                                  |              |
| Nominal voltage U <sub>N</sub> | 250 V                                                                               | 300 V                                                                                                                                                 |              |

|                                |                                                                                     |                                                                                                                                                       |         |
|--------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| SEV                            |  | <a href="https://www.electrosuisse.ch/en/meta/shop/product-certificates.html">https://www.electrosuisse.ch/en/meta/shop/product-certificates.html</a> | IK-3248 |
|                                |                                                                                     |                                                                                                                                                       |         |
| mm²/AWG/kcmil                  | 6                                                                                   |                                                                                                                                                       |         |
| Nominal current I <sub>N</sub> | 32 A                                                                                |                                                                                                                                                       |         |
| Nominal voltage U <sub>N</sub> | 690 V                                                                               |                                                                                                                                                       |         |

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### Approvals

|                    |                                                                                   |                                                                                                                                                       |              |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 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                                                                                 | C                                                                                                                                                     |              |
| mm²/AWG/kcmil      | 30-10                                                                             | 30-10                                                                                                                                                 |              |
| Nominal current IN | 30 A                                                                              | 30 A                                                                                                                                                  |              |
| Nominal voltage UN | 250 V                                                                             | 300 V                                                                                                                                                 |              |

|                    |         |
|--------------------|---------|
| CCA                | IK-3249 |
| mm²/AWG/kcmil      | 6       |
| Nominal voltage UN | 690 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

#### Screwdriver tools

Screwdriver - SZS 0,6X3,5 - 1205053



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

#### Terminal marking

Marker strip - SK 5,0 WH:REEL - 0805221



Marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMaster 300/600, THERMOMARK X1.2, THERMOMARK S1.1, Mounting type: Adhesive, Lettering field: continuous x 5 mm

