

## PCB terminal block - GMKDS 3/ 3 - 1731035

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PCB terminal block, Nominal current: 24 A, Nom. voltage: 630 V, Pitch: 7.5 mm, Number of positions: 3, Connection method: Screw connection with tension sleeve, Mounting: Wave soldering, Conductor/PCB connection direction: 0 °, Color: green, The article can be aligned to create different nos. of positions!

The illustration shows a 2-position version

### Why buy this product

- ✓ Can be consistently connected in series with the corresponding standard models of the MKDS 3 range



### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 100 STK                                                                                                 |
| GTIN                                 | <br>4 017918 026387 |
| GTIN                                 | 4017918026387                                                                                           |
| Weight per Piece (excluding packing) | 6.570 g                                                                                                 |
| Custom tariff number                 | 85369010                                                                                                |
| Country of origin                    | Germany                                                                                                 |

### Technical data

#### Environmental Product Compliance

|            |                                                                          |
|------------|--------------------------------------------------------------------------|
| China RoHS | Hazardous substances above threshold values;                             |
|            | Environmentally Friendly Use Period = 50;                                |
|            | For details go to tab "Downloads", Category "Manufacturer's declaration" |

#### Dimensions

|                       |         |
|-----------------------|---------|
| Length                | 11.2 mm |
| Pitch                 | 7.50 mm |
| Dimension a           | 15 mm   |
| Width                 | 22.5 mm |
| Constructional height | 18 mm   |

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## Technical data

### Dimensions

|                          |           |
|--------------------------|-----------|
| Height                   | 23.1 mm   |
| Length of the solder pin | 5.1 mm    |
| Pin dimensions           | 0,9 x 0,9 |
| Hole diameter            | 1.3 mm    |

### General

|                                        |                                                       |
|----------------------------------------|-------------------------------------------------------|
| Range of articles                      | GMKDS 3                                               |
| 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)                  | 500 V                                                 |
| Rated voltage (III/2)                  | 630 V                                                 |
| Rated voltage (II/2)                   | 1000 V                                                |
| Connection in acc. with standard       | EN-VDE                                                |
| Nominal current $I_N$                  | 24 A                                                  |
| Nominal cross section                  | 2.5 mm <sup>2</sup>                                   |
| Maximum load current                   | 30 A (with 4 mm <sup>2</sup> conductor cross section) |
| Insulating material                    | PA                                                    |
| Solder pin surface                     | Sn                                                    |
| Flammability rating according to UL 94 | V0                                                    |
| Internal cylindrical gage              | A3                                                    |
| Stripping length                       | 8 mm                                                  |
| Number of positions                    | 3                                                     |
| 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.                                         | 4 mm <sup>2</sup>    |
| Conductor cross section flexible min.                                      | 0.2 mm <sup>2</sup>  |
| Conductor cross section flexible max.                                      | 2.5 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. | 2.5 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.    | 2.5 mm <sup>2</sup>  |
| Conductor cross section AWG min.                                           | 24                   |
| Conductor cross section AWG max.                                           | 12                   |
| 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>  |

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### Technical data

#### Connection data

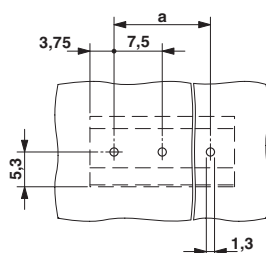
|                                                                                         |                      |
|-----------------------------------------------------------------------------------------|----------------------|
| 2 conductors with same cross section, stranded max.                                     | 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> |
| 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. | 1.5 mm <sup>2</sup>  |

#### Standards and Regulations

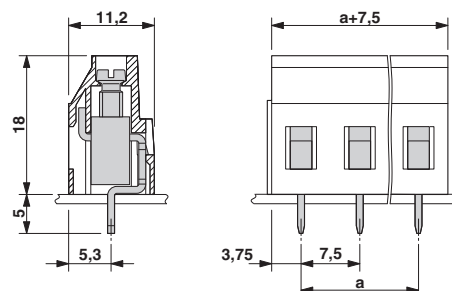
|                                        |        |
|----------------------------------------|--------|
| Connection in acc. with standard       | EN-VDE |
|                                        | CSA    |
| Flammability rating according to UL 94 | V0     |

### 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 |

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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 / cUL Recognized / GL / CCA / SEV / EAC / EAC / cULus Recognized

#### Ex Approvals

### Approval details

| CSA  <a href="http://www.csagroup.org/us/en/services/testing-and-certification/certified-product-listing">http://www.csagroup.org/us/en/services/testing-and-certification/certified-product-listing</a> 13631 |       |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|
|                                                                                                                                                                                                                                                                                                   | B     | D     |
| mm²/AWG/kcmil                                                                                                                                                                                                                                                                                     | 28-12 | 28-12 |
| Nominal current I <sub>N</sub>                                                                                                                                                                                                                                                                    | 10 A  | 10 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     | D     |
| mm²/AWG/kcmil                                                                                                                                                                                                                                                        | 30-12 | 30-12 |
| Nominal current I <sub>N</sub>                                                                                                                                                                                                                                       | 15 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                                                                                                                                                                                                                                                         | 30-12 | 30-12 |
| Nominal current I <sub>N</sub>                                                                                                                                                                                                                                        | 15 A  | 10 A  |
| Nominal voltage U <sub>N</sub>                                                                                                                                                                                                                                        | 250 V | 300 V |

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### Approvals

GL <http://www.gl-group.com/newbuilding/approvals/index.html> 9888096 HH

CCA IK-3249

mm<sup>2</sup>/AWG/kcmil

4

Nominal voltage UN

500 V

SEV <https://www.electrosuisse.ch> IK-3248

mm<sup>2</sup>/AWG/kcmil

4

Nominal voltage UN

500 V

EAC EAC-Zulassung

EAC B.01742

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

### Accessories

#### Accessories

##### Cover

Cover - EA-MKDS - 1711408



##### Labeled terminal marker

Marker card - SK 7,5/5:FORTL.ZAHLEN - 0804468



Marker card, Card, white, labeled, Horizontal: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - 100, Mounting type: Adhesive, for terminal block width: 7.5 mm, Lettering field: 7.5 x 5 mm

##### Marker pen

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### Accessories

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

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### 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

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### Terminal marking

Marker card - SK U/3,8 WH:UNBEDRUCKT - 0803906



Marker card, Sheet, white, unlabeled, can be labeled with: Plotter, Office printing systems, Mounting type: Adhesive, Lettering field: 186 x 3.8 mm