

## MKDSN 2,5/ 4-5,08 HT BK - 1826185

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PCB terminal block, nominal current: 16 A, nom. voltage: 320 V, pitch: 5.08 mm, number of positions: 4, connection method: Screw connection with tension sleeve, mounting: THR soldering, conductor/PCB connection direction: 0 °, color: black

The figure shows a 2-pos. version of the product

### Your advantages

- ✓ Well-known connection principle allows worldwide use
- ✓ Low temperature rise, thanks to maximum contact force
- ✓ Allows connection of two conductors
- ✓ Extremely small design for the respective conductor cross section
- ✓ Designed for integration into the SMT soldering process
- ✓ Integrated protective guide prevents incorrect insertion of the conductor underneath the tension sleeve
- ✓ The latching on the side enables various numbers of positions to be combined



### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 50 pc                                                                                                   |
| GTIN         | <br>4 046356 871723 |
| GTIN         | 4046356871723                                                                                           |

### Technical data

#### Dimensions

|                |          |
|----------------|----------|
| Length [ l ]   | 9.5 mm   |
| Pitch          | 5.08 mm  |
| Dimension a    | 15.24 mm |
| Width [ w ]    | 20.32 mm |
| Height         | 15 mm    |
| Height [ h ]   | 15 mm    |
| Solder pin [P] | 3.5 mm   |
| Pin spacing    | 5.08 mm  |

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### Technical data

#### Dimensions

|               |        |
|---------------|--------|
| Hole diameter | 1.3 mm |
|---------------|--------|

#### General

|                                  |                     |
|----------------------------------|---------------------|
| Range of articles                | MKDSN 2,5/...-HT    |
| Rated surge voltage (III/3)      | 4 kV                |
| Rated surge voltage (III/2)      | 4 kV                |
| Rated surge voltage (II/2)       | 4 kV                |
| Rated voltage (III/3)            | 200 V               |
| Rated voltage (III/2)            | 320 V               |
| Rated voltage (II/2)             | 630 V               |
| Connection in acc. with standard | EN-VDE              |
| Nominal current $I_N$            | 16 A                |
| Nominal cross section            | 2.5 mm <sup>2</sup> |
| Insulating material              | PA                  |
| Internal cylindrical gage        | A3                  |
| Stripping length                 | 6.5 mm              |
| Number of positions              | 4                   |
| Screw thread                     | M3                  |
| Tightening torque, min           | 0.5 Nm              |
| Tightening torque max            | 0.6 Nm              |

#### Connection data

|                                                                                         |                      |
|-----------------------------------------------------------------------------------------|----------------------|
| Conductor cross section AWG min.                                                        | 24                   |
| Conductor cross section AWG max.                                                        | 14                   |
| 2 conductors with same cross section, solid min.                                        | 0.2 mm <sup>2</sup>  |
| 2 conductors with same cross section, solid max.                                        | 0.75 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.                                     | 0.75 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 |
|                                  | CUL    |

#### Environmental Product Compliance

|            |                                          |
|------------|------------------------------------------|
| REACH SVHC | Lead 7439-92-1                           |
| China RoHS | Environmentally Friendly Use Period = 50 |

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## Technical data

### Environmental Product Compliance

|  |                                                                                                     |
|--|-----------------------------------------------------------------------------------------------------|
|  | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |
|--|-----------------------------------------------------------------------------------------------------|

## Approvals

### Approvals

#### Approvals

IECEE CB Scheme / SEV / VDE Gutachten mit Fertigungsüberwachung / EAC / cULus Recognized

#### Ex Approvals

### Approval details

|                    |                                                                                     |                                                           |           |
|--------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------|
| IECEE CB Scheme    |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-58859 |
| Nominal voltage UN | 250 V                                                                               |                                                           |           |
| Nominal current IN | 24 A                                                                                |                                                           |           |
| mm²/AWG/kcmil      | 0.2-2.5                                                                             |                                                           |           |

|                    |                                                                                     |                                                                                                                                                     |            |
|--------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| SEV                |  | <a href="https://www.electrosuisse.ch/de/meta/shop/produktezertifikate.html">https://www.electrosuisse.ch/de/meta/shop/produktezertifikate.html</a> | IK-3542-M1 |
| Nominal voltage UN | 250 V                                                                               |                                                                                                                                                     |            |
| Nominal current IN | 24 A                                                                                |                                                                                                                                                     |            |
| mm²/AWG/kcmil      | 2.5                                                                                 |                                                                                                                                                     |            |

|                                         |                                                                                     |                                                                                                                                                                                                           |          |
|-----------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| VDE Gutachten mit Fertigungsüberwachung |  | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40018557 |
| Nominal voltage UN                      | 250 V                                                                               |                                                                                                                                                                                                           |          |
| Nominal current IN                      | 24 A                                                                                |                                                                                                                                                                                                           |          |
| mm²/AWG/kcmil                           | 0.2-2.5                                                                             |                                                                                                                                                                                                           |          |

## MKDSN 2,5/ 4-5,08 HT BK - 1826185

### Approvals

|     |                                                                                   |         |
|-----|-----------------------------------------------------------------------------------|---------|
| 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> | E60425-19770427 |
|                    | D                                                                                 | B                                                                                                                                                     |                 |
| Nominal voltage UN | 300 V                                                                             | 300 V                                                                                                                                                 |                 |
| Nominal current IN | 10 A                                                                              | 20 A                                                                                                                                                  |                 |
| mm²/AWG/kcmil      | 30-12                                                                             | 30-12                                                                                                                                                 |                 |

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PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>

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