

## PCB terminal block - KDS 4/ 7 BDWH:L1-PE - 1700475

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PCB terminal block, nominal current: 41 A, nom. voltage: 320 V, pitch: 7.5 mm, number of positions: 7, connection method: Screw connection with tension sleeve, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green

The figure shows a 1-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
- ✓ Potentials can be easily looped through with additional connection to the PCB
- ✓ Two solder pins reduce the mechanical strain on the soldering spots
- ✓ The latching on the side enables various numbers of positions to be combined



### Key Commercial Data

|              |               |
|--------------|---------------|
| Packing unit | 50 pc         |
| GTIN         |               |
| GTIN         | 4046356484916 |

### Technical data

#### Dimensions

|                  |         |
|------------------|---------|
| Length [ l ]     | 20.6 mm |
| Pitch            | 7.5 mm  |
| Dimension a      | 45 mm   |
| Width [ w ]      | 52.5 mm |
| Height           | 18 mm   |
| Height [ h ]     | 23 mm   |
| Solder pin [ P ] | 5 mm    |
| Hole diameter    | 1.3 mm  |

#### General

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## Technical data

### General

|                                  |                   |
|----------------------------------|-------------------|
| Range of articles                | KDS 4             |
| 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)            | 320 V             |
| Rated voltage (III/2)            | 320 V             |
| Rated voltage (II/2)             | 630 V             |
| Connection in acc. with standard | EN-VDE            |
| Nominal current $I_N$            | 41 A              |
| Nominal cross section            | 4 mm <sup>2</sup> |
| Internal cylindrical gage        | A3                |
| Stripping length                 | 8 mm              |
| Number of positions              | 7                 |
| Screw thread                     | M3                |
| Tightening torque, min           | 0.6 Nm            |
| Tightening torque max            | 0.8 Nm            |

### Connection data

|                                                                                         |                      |
|-----------------------------------------------------------------------------------------|----------------------|
| 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 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.   | 1 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. | 2.5 mm <sup>2</sup>  |

### Standards and Regulations

|                                  |        |
|----------------------------------|--------|
| Connection in acc. with standard | EN-VDE |
|                                  | CSA    |

### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| REACH SVHC | Lead 7439-92-1                                                                                      |
| China RoHS | Environmentally Friendly Use Period = 50                                                            |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## PCB terminal block - KDS 4/ 7 BDWH:L1-PE - 1700475

### Approvals

#### Approvals

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DNV GL / CSA / RS / CCA / SEV / EAC / cULus Recognized

#### Ex Approvals

### Approval details

|        |                                                                           |            |
|--------|---------------------------------------------------------------------------|------------|
| DNV GL | <a href="http://exchange.dnv.com/tari/">http://exchange.dnv.com/tari/</a> | TAE00001EV |
|--------|---------------------------------------------------------------------------|------------|

|                    |                                                                                   |                                                                                                                                         |       |
|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| CSA                |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|                    | D                                                                                 | B                                                                                                                                       |       |
| Nominal voltage UN | 300 V                                                                             | 300 V                                                                                                                                   |       |
| Nominal current IN | 10 A                                                                              | 30 A                                                                                                                                    |       |
| mm²/AWG/kcmil      | 28-10                                                                             | 28-10                                                                                                                                   |       |

|    |                                                                                     |                                                                                             |              |
|----|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------|
| RS |  | <a href="http://www.rs-head.spb.ru/en/index.php">http://www.rs-head.spb.ru/en/index.php</a> | 17.00014.272 |
|----|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------|

|                    |         |  |  |
|--------------------|---------|--|--|
| CCA                | IK-3249 |  |  |
| Nominal voltage UN | 400 V   |  |  |
| mm²/AWG/kcmil      | 6       |  |  |

|                    |                                                                                     |                                                                                                                                                     |         |
|--------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| SEV                |  | <a href="https://www.electrosuisse.ch/de/meta/shop/produktezertifikate.html">https://www.electrosuisse.ch/de/meta/shop/produktezertifikate.html</a> | IK-4199 |
| Nominal voltage UN | 400 V                                                                               |                                                                                                                                                     |         |
| Nominal current IN | 41 A                                                                                |                                                                                                                                                     |         |
| mm²/AWG/kcmil      | 6                                                                                   |                                                                                                                                                     |         |

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

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### Approvals

| 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  | 30 A  |
| mm²/AWG/kcmil                                                                                                                                                                                                                                                            | 30-10 | 30-10 |

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