

## PCB terminal block - MKDSP 10HV/ 3-10,16 BSNZ WH/BK - 1933655

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PCB terminal block, nominal current: 57 A, nom. voltage: 1000 V, pitch: 10.16 mm, number of positions: 3, connection method: Screw connection with tension sleeve, mounting: Wave soldering, conductor/PCB connection direction: 0°. The article can be aligned to create different nos. of positions! Equipment ratings in acc. with UL, for 600 V applications, are possible. The insulation requirements of the respective devices for PCB assembly must be observed for this purpose (e.g. UL 508).

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
- ✓ Quick and convenient testing using integrated test option
- ✓ The latching on the side enables various numbers of positions to be combined
- ✓ Integrated protective guide prevents incorrect insertion of the conductor underneath the tension sleeve



### Key Commercial Data

|              |               |
|--------------|---------------|
| Packing unit | 50 pc         |
| GTIN         |               |
| GTIN         | 4017918896898 |

### Technical data

#### Dimensions

|                |          |
|----------------|----------|
| Length [ l ]   | 22 mm    |
| Pitch          | 10.16 mm |
| Dimension a    | 20.32 mm |
| Height         | 30.8 mm  |
| Height [ h ]   | 35.8 mm  |
| Solder pin [P] | 5 mm     |
| Hole diameter  | 1.5 mm   |

#### General

|                   |            |
|-------------------|------------|
| Range of articles | MKDSP 10HV |
|-------------------|------------|

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## Technical data

### General

|                                        |                                                        |
|----------------------------------------|--------------------------------------------------------|
| Insulating material group              | I                                                      |
| Rated surge voltage (III/3)            | 8 kV                                                   |
| Rated surge voltage (III/2)            | 8 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 $I_N$                  | 57 A                                                   |
| Nominal cross section                  | 10 mm <sup>2</sup>                                     |
| Maximum load current                   | 57 A (with 16 mm <sup>2</sup> conductor cross section) |
| Insulating material                    | PA                                                     |
| Flammability rating according to UL 94 | V0                                                     |
| Internal cylindrical gage              | B6                                                     |
| Stripping length                       | 10 mm                                                  |
| Number of positions                    | 3                                                      |
| Screw thread                           | M4                                                     |
| Tightening torque, min                 | 1.2 Nm                                                 |
| Tightening torque max                  | 1.5 Nm                                                 |

### Connection data

|                                                                                         |                     |
|-----------------------------------------------------------------------------------------|---------------------|
| Conductor cross section solid min.                                                      | 0.5 mm <sup>2</sup> |
| Conductor cross section solid max.                                                      | 16 mm <sup>2</sup>  |
| Conductor cross section flexible min.                                                   | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible max.                                                   | 10 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule without plastic sleeve min.              | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max.              | 10 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule with plastic sleeve min.                 | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                 | 10 mm <sup>2</sup>  |
| Conductor cross section AWG min.                                                        | 20                  |
| Conductor cross section AWG max.                                                        | 6                   |
| 2 conductors with same cross section, solid min.                                        | 0.5 mm <sup>2</sup> |
| 2 conductors with same cross section, solid max.                                        | 4 mm <sup>2</sup>   |
| 2 conductors with same cross section, stranded min.                                     | 0.5 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded max.                                     | 4 mm <sup>2</sup>   |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.   | 0.5 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.   | 2.5 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.5 mm <sup>2</sup> |

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## Technical data

### Connection data

|                                                                                         |                   |
|-----------------------------------------------------------------------------------------|-------------------|
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 6 mm <sup>2</sup> |
|-----------------------------------------------------------------------------------------|-------------------|

### Standards and Regulations

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

### 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" |

## Approvals

### Approvals

#### Approvals

IECEE CB Scheme / SEV / EAC / cULus Recognized

#### Ex Approvals

### Approval details

|                            |                                                                                     |                                                           |         |
|----------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------|---------|
| IECEE CB Scheme            |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | CH-8225 |
| Nominal voltage UN         | 690 V                                                                               |                                                           |         |
| Nominal current IN         | 57 A                                                                                |                                                           |         |
| mm <sup>2</sup> /AWG/kcmil | 16                                                                                  |                                                           |         |

|                            |                                                                                     |                                                                                                                                                     |            |
|----------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 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         | 690 V                                                                               |                                                                                                                                                     |            |
| Nominal current IN         | 57 A                                                                                |                                                                                                                                                     |            |
| mm <sup>2</sup> /AWG/kcmil | 16                                                                                  |                                                                                                                                                     |            |

## PCB terminal block - MKDSP 10HV/ 3-10,16 BSNZ WH/BK - 1933655

### 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                                                                                                                                                     | C               |
| Nominal voltage UN | 600 V                                                                             | 300 V                                                                                                                                                 | 300 V           |
| Nominal current IN | 5 A                                                                               | 60 A                                                                                                                                                  | 60 A            |
| mm²/AWG/kcmil      | 20-6                                                                              | 20-6                                                                                                                                                  | 20-6            |

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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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