

<https://www.phoenixcontact.com/cn/products/1993776>

## PCB terminal block - MKDS 10 HV/ 1-B-10,16 - 1993776

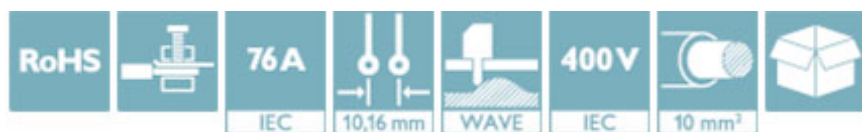
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PCB terminal block, Nominal current: 76 A, Nom. voltage: 400 V, Pitch: 10.16 mm, Number of positions: 1, Connection method: Screw connection with tension sleeve, Mounting: Wave soldering, Conductor/PCB connection direction: 0 °, Color: green

### Why buy this product

- ✓ Well-known connection principle allows worldwide use
- ✓ Low temperature rise, thanks to maximum contact force
- ✓ Allows connection of two conductors
- ✓ Unrestricted 600-V-UL approval thanks to compact zig-zag pinning
- ✓ Integrated protective guide prevents incorrect insertion of the conductor underneath the tension sleeve



### Key Commercial Data

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit           | 50 STK                                                                                                  |
| Minimum order quantity | 50 STK                                                                                                  |
| GTIN                   | <br>4 046356 037617 |
| GTIN                   | 4046356037617                                                                                           |
| Custom tariff number   | 8536909000                                                                                              |
| Sales Key              | AABDAA                                                                                                  |

### Technical data

#### Dimensions

|                          |            |
|--------------------------|------------|
| Length                   | 18.8 mm    |
| Pitch                    | 10.16 mm   |
| Height                   | 31 mm      |
| Length of the solder pin | 5 mm       |
| Pin dimensions           | 1 x 0.9 mm |
| Hole diameter            | 1.5 mm     |

#### General

|                   |            |
|-------------------|------------|
| Range of articles | MKDS 10 HV |
|-------------------|------------|

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### Technical data

#### General

|                                        |                                                        |
|----------------------------------------|--------------------------------------------------------|
| Insulating material group              | I                                                      |
| 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)                  | 400 V                                                  |
| Rated voltage (III/2)                  | 400 V                                                  |
| Rated voltage (II/2)                   | 800 V                                                  |
| Connection in acc. with standard       | EN-VDE                                                 |
| Nominal current $I_N$                  | 76 A                                                   |
| Nominal cross section                  | 10 mm <sup>2</sup>                                     |
| Maximum load current                   | 76 A (with 16 mm <sup>2</sup> conductor cross section) |
| Insulating material                    | PA                                                     |
| Solder pin surface                     | Sn                                                     |
| Flammability rating according to UL 94 | V0                                                     |
| Internal cylindrical gage              | B6                                                     |
| Stripping length                       | 10 mm                                                  |
| Number of positions                    | 1                                                      |
| 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.                                                   | 16 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.              | 16 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.                 | 16 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.                                        | 6 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.                                     | 6 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.   | 4 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

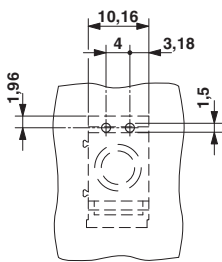
|                                        |        |
|----------------------------------------|--------|
| Connection in acc. with standard       | EN-VDE |
|                                        | CUL    |
| Flammability rating according to UL 94 | V0     |

### Environmental Product Compliance

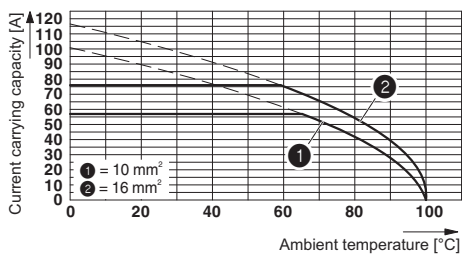
|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| China RoHS | Environmentally Friendly Use Period = 50           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

## Drawings

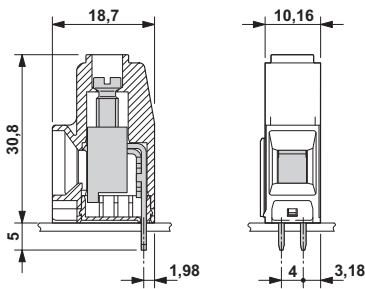
Drilling diagram



Diagram



Dimensional drawing



## Approvals

### Approvals

Approvals

SEV / IECIE CB Scheme / CCA / EAC / cULus Recognized / CCA / IECIE CB Scheme

Ex Approvals

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### Approvals

#### Approval details

|                                |                                                                                   |                                                                                                                                                       |            |
|--------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 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-3542-M1 |
|                                |                                                                                   |                                                                                                                                                       |            |
| mm <sup>2</sup> /AWG/kcmil     |                                                                                   | 10                                                                                                                                                    |            |
| Nominal current I <sub>N</sub> |                                                                                   | 76 A                                                                                                                                                  |            |
| Nominal voltage U <sub>N</sub> |                                                                                   | 400 V                                                                                                                                                 |            |

|                 |                                                                                   |                                                           |         |
|-----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------|---------|
| IECEE CB Scheme |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | CH-8225 |
|-----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------|---------|

|     |         |
|-----|---------|
| CCA | IK-2722 |
|-----|---------|

|     |                                                                                     |         |
|-----|-------------------------------------------------------------------------------------|---------|
| 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 |
|                                | B                                                                                   | C                                                                                                                                                     | D               |
| mm <sup>2</sup> /AWG/kcmil     | 20-6                                                                                | 20-6                                                                                                                                                  | 20-6            |
| Nominal current I <sub>N</sub> | 60 A                                                                                | 60 A                                                                                                                                                  | 10 A            |
| Nominal voltage U <sub>N</sub> | 300 V                                                                               | 150 V                                                                                                                                                 | 300 V           |

|                                |       |         |
|--------------------------------|-------|---------|
| CCA                            |       | IK-2722 |
|                                |       |         |
| mm²/AWG/kcmil                  | 10    |         |
| Nominal current I <sub>N</sub> | 76 A  |         |
| Nominal voltage U <sub>N</sub> | 400 V |         |

|                                |                                                                                     |                                                           |         |
|--------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------|---------|
| IECEE CB Scheme                |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | CH-8225 |
|                                |                                                                                     |                                                           |         |
| mm <sup>2</sup> /AWG/kcmil     |                                                                                     | 10                                                        |         |
| Nominal current I <sub>N</sub> |                                                                                     | 76 A                                                      |         |
| Nominal voltage U <sub>N</sub> |                                                                                     | 400 V                                                     |         |

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