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## PCB terminal block - MKDS 5 HV/3-9.52 - 1904150

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PC terminal block, Nominal current: 32 A, Nom. voltage: 1000 V, Pitch: 9.52 mm, Number of positions: 3, Connection method: Screw connection, Mounting: Soldering, Conductor/PCB connection direction: 0 °, Color: green, The article can be aligned to create different nos. of positions!

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

### Why buy this product

- ✓ Versions with anti-rotation pins (MKDSV, recommended for 2-pos. connections)
- ✓ MKDS 5N HV high-voltage PCB terminal blocks with increased air and creepage distances
- ✓ Unlimited 600 V UL approval thanks to compact zigzag pinning (MKDS 5N HV/...ZB-6,35 and MKDS 5 HV/...-9,52-Z)



### Key commercial data

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit           | 1                                                                                                       |
| Minimum order quantity | 1                                                                                                       |
| Catalog page           | Page 365 (CC-2011)                                                                                      |
| GTIN                   | <br>4 017918 187613 |
| Custom tariff number   | 85369010                                                                                                |
| Country of origin      | POLAND                                                                                                  |

### Technical data

#### Dimensions / positions

|                        |              |
|------------------------|--------------|
| Length                 | 28.56 mm     |
| Height                 | 21.5 mm      |
| Width                  | 16 mm        |
| Pitch                  | 9.52 mm      |
| Dimension a            | 19.04 mm     |
| Number of positions    | 3            |
| Pin dimensions         | 0,9 x 0,9 mm |
| Hole diameter          | 1.3 mm       |
| Screw thread           | M3           |
| Tightening torque, min | 0.5 Nm       |
| Tightening torque max  | 0.6 Nm       |

# PCB terminal block - MKDS 5 HV/3-9.52 - 1904150

## Technical data

### Technical data

|                                         |                   |
|-----------------------------------------|-------------------|
| Range of articles                       | MKDS 5 HV         |
| 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)                   | 800 V             |
| Rated voltage (III/2)                   | 1000 V            |
| Rated voltage (II/2)                    | 1000 V            |
| Connection in acc. with standard        | EN-VDE            |
| Nominal current $I_N$                   | 32 A              |
| Nominal cross section                   | 4 mm <sup>2</sup> |
| Maximum load current                    | 32 A              |
| Insulating material                     | PA                |
| Inflammability class according to UL 94 | V0                |
| Internal cylindrical gage               | A4                |
| Stripping length                        | 8 mm              |
| Nominal voltage, UL/CUL Use Group B     | 300 V             |
| Nominal current, UL/CUL Use Group B     | 30 A              |
| Nominal voltage, UL/CUL Use Group C     | 300 V             |
| Nominal current, UL/CUL Use Group C     | 30 A              |
| Nominal voltage, UL/CUL Use Group D     | 600 V             |
| Nominal current, UL/CUL Use Group D     | 5 A               |

### Connection data

|                                                                                       |                      |
|---------------------------------------------------------------------------------------|----------------------|
| Conductor cross section solid min.                                                    | 0.2 mm <sup>2</sup>  |
| Conductor cross section solid max.                                                    | 6 mm <sup>2</sup>    |
| Conductor cross section stranded min.                                                 | 0.2 mm <sup>2</sup>  |
| Conductor cross section stranded max.                                                 | 4 mm <sup>2</sup>    |
| Conductor cross section stranded, with ferrule without plastic sleeve min.            | 0.25 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule without plastic sleeve max.            | 4 mm <sup>2</sup>    |
| Conductor cross section stranded, with ferrule with plastic sleeve min.               | 0.25 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule with plastic sleeve max.               | 4 mm <sup>2</sup>    |
| Conductor cross section AWG/kcmil min.                                                | 24                   |
| Conductor cross section AWG/kcmil 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.                                   | 1.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. | 0.25 mm <sup>2</sup> |

# PCB terminal block - MKDS 5 HV/3-9.52 - 1904150

## Technical data

### Connection data

|                                                                                         |                      |
|-----------------------------------------------------------------------------------------|----------------------|
| 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. | 2.5 mm <sup>2</sup>  |
| Minimum AWG according to UL/CUL                                                         | 30                   |
| Maximum AWG according to UL/CUL                                                         | 10                   |

## Classifications

### eclass

|            |          |
|------------|----------|
| 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 |

### etim

|          |          |
|----------|----------|
| ETIM 3.0 | EC001121 |
| ETIM 4.0 | EC002643 |
| ETIM 5.0 | EC002643 |

### unspsc

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211801 |
| UNSPSC 7.0901 | 39121432 |
| UNSPSC 11     | 39121432 |
| UNSPSC 12.01  | 39121432 |
| UNSPSC 13.2   | 39121432 |

## Approvals

### Approvals

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#### Approvals

UL Recognized / SEV / cUL Recognized / GOST / CCA / IECEE CB Scheme / GOST / cULus Recognized

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#### Ex Approvals

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#### Approvals submitted

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## PCB terminal block - MKDS 5 HV/3-9.52 - 1904150

### Approvals

#### Approval details

| UL Recognized  |       |       |       |
|-------------------------------------------------------------------------------------------------|-------|-------|-------|
|                                                                                                 | B     | C     | D     |
| mm²/AWG/kcmil                                                                                   | 30-10 | 30-10 | 30-10 |
| Nominal current I <sub>N</sub>                                                                  | 30 A  | 30 A  | 5 A   |
| Nominal voltage U <sub>N</sub>                                                                  | 300 V | 300 V | 600 V |

| SEV                            |       |
|--------------------------------|-------|
|                                |       |
| mm²/AWG/kcmil                  | 6     |
| Nominal voltage U <sub>N</sub> | 690 V |

| cUL Recognized  |       |       |       |
|---------------------------------------------------------------------------------------------------|-------|-------|-------|
|                                                                                                   | B     | C     | D     |
| mm²/AWG/kcmil                                                                                     | 30-10 | 30-10 | 30-10 |
| Nominal current I <sub>N</sub>                                                                    | 30 A  | 30 A  | 5 A   |
| Nominal voltage U <sub>N</sub>                                                                    | 300 V | 300 V | 600 V |

|                                                                                          |
|------------------------------------------------------------------------------------------|
| GOST  |
|------------------------------------------------------------------------------------------|

|     |
|-----|
| CCA |
|-----|

|                                                                                                     |
|-----------------------------------------------------------------------------------------------------|
| IECEE CB Scheme  |
|-----------------------------------------------------------------------------------------------------|

|                                                                                          |
|------------------------------------------------------------------------------------------|
| GOST  |
|------------------------------------------------------------------------------------------|

|                                                                                                      |
|------------------------------------------------------------------------------------------------------|
| cULus Recognized  |
|------------------------------------------------------------------------------------------------------|

### Accessories

#### Accessories

#### Marking

# PCB terminal block - MKDS 5 HV/3-9.52 - 1904150

## Accessories

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



Marker cards, Sheet, white, Unlabeled, Can be labeled with: Plotter, Office-Drucksysteme, Mounting type: Adhesive

Marker pen - B-STIFT - 1051993



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

## Tools

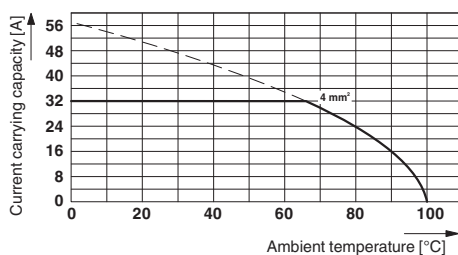
Screwdriver - SZS 0,6X3,5 - 1205053



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

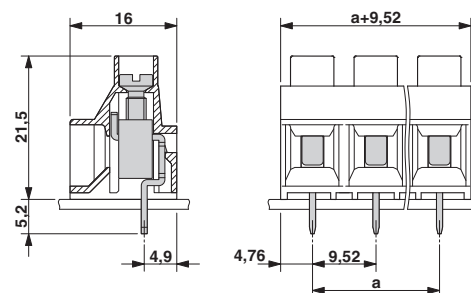
## Drawings

### Diagram



Type: MKDS 5 HV/2-9.52 and MKDS 5 HV/3-9.52  
 Test following DIN EN 60512-5-2:2003-01  
 Reduction factor = 1  
 No. of positions: 5

### Dimensioned drawing



## PCB terminal block - MKDS 5 HV/3-9.52 - 1904150

Drilling diagram

