

## PCB terminal block - MKDSO 2,5/ 3-R BK - 2869744

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PCB terminal block, Nominal current: 24 A, Nom. voltage: 400 V, Connection method: Screw connection, Mounting: Soldering, Conductor/PCB connection direction: 0 °, Color: black

### Key commercial data

|                  |               |
|------------------|---------------|
| package_quantity | 50            |
| GTIN             | 4017918944643 |

### Technical data

#### Dimensions

|                |         |
|----------------|---------|
| Length         | 15.3 mm |
| Pin dimensions | 0,8 x 1 |
| Hole diameter  | 1.4 mm  |

#### General

|                                         |                     |
|-----------------------------------------|---------------------|
| 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)                   | 400 V               |
| Rated voltage (II/2)                    | 630 V               |
| Connection in acc. with standard        | EN-VDE              |
| Nominal current I <sub>N</sub>          | 24 A                |
| Nominal cross section                   | 2.5 mm <sup>2</sup> |
| Maximum load current                    | 24 A                |
| Inflammability class according to UL 94 | V0                  |
| Internal cylindrical gage               | A 2                 |
| Stripping length                        | 8 mm                |
| Screw thread                            | M3                  |
| Tightening torque, min                  | 0.5 Nm              |
| Tightening torque max                   | 0.6 Nm              |

#### Connection data

|                                       |                      |
|---------------------------------------|----------------------|
| Conductor cross section solid min.    | 0.14 mm <sup>2</sup> |
| Conductor cross section solid max.    | 2.5 mm <sup>2</sup>  |
| Conductor cross section stranded min. | 0.14 mm <sup>2</sup> |

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## Technical data

### Connection data

|                                                                                         |                      |
|-----------------------------------------------------------------------------------------|----------------------|
| Conductor cross section stranded max.                                                   | 2.5 mm <sup>2</sup>  |
| Conductor cross section AWG/kcmil min.                                                  | 26                   |
| Conductor cross section AWG/kcmil max                                                   | 14                   |
| 2 conductors with same cross section, solid min.                                        | 0.14 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.                                     | 0.14 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>  |
| Minimum AWG according to UL/CUL                                                         | 30                   |
| Maximum AWG according to UL/CUL                                                         | 12                   |

## classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27180401 |
| eCl@ss 4.1 | 27180401 |
| eCl@ss 5.0 | 27180506 |
| eCl@ss 5.1 | 27141190 |
| eCl@ss 6.0 | 27141190 |
| eCl@ss 7.0 | 27141190 |
| eCl@ss 8.0 | 27141190 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001031 |
| ETIM 3.0 | EC001031 |
| ETIM 4.0 | EC002643 |
| ETIM 5.0 | EC002643 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31261501 |
| UNSPSC 7.0901 | 31261501 |
| UNSPSC 11     | 31261501 |
| UNSPSC 12.01  | 31261501 |
| UNSPSC 13.2   | 31261501 |

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## approvals

CSA / UL Recognized / VDE Gutachten mit Fertigungsüberwachung / cUL Recognized / CCA / IECCEB CB Scheme / GOST / GOST / cULus Recognized /

### Approval details

| CSA  |       |       |
|---------------------------------------------------------------------------------------|-------|-------|
| Usegroups                                                                             | B     | D     |
| Nominal voltage UN                                                                    | 300 V | 300 V |
| Nominal current IN                                                                    | 10 A  | 10 A  |
| mm²/AWG/kcmil                                                                         | 28-12 | 28-12 |

| UL Recognized  |       |       |
|-------------------------------------------------------------------------------------------------|-------|-------|
| Usegroups                                                                                       | B     | D     |
| Nominal voltage UN                                                                              | 300 V | 300 V |
| Nominal current IN                                                                              | 20 A  | 10 A  |
| mm²/AWG/kcmil                                                                                   | 30-12 | 30-12 |

|                                                                                                                             |         |
|-----------------------------------------------------------------------------------------------------------------------------|---------|
| VDE Gutachten mit Fertigungsüberwachung  |         |
| Nominal voltage UN                                                                                                          | 450 V   |
| Nominal current IN                                                                                                          | 24 A    |
| mm²/AWG/kcmil                                                                                                               | 0.2-2.5 |

| cUL Recognized  |       |       |
|----------------------------------------------------------------------------------------------------|-------|-------|
| Usegroups                                                                                          | B     | D     |
| Nominal voltage UN                                                                                 | 300 V | 300 V |
| Nominal current IN                                                                                 | 20 A  | 10 A  |
| mm²/AWG/kcmil                                                                                      | 30-12 | 30-12 |

|                    |       |
|--------------------|-------|
| CCA                |       |
| Nominal voltage UN | 450 V |
| Nominal current IN | 24 A  |
| mm²/AWG/kcmil      | 2.5   |

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## approvals

|                                                                                                   |       |
|---------------------------------------------------------------------------------------------------|-------|
| IECEE CB Scheme  |       |
|                                                                                                   |       |
| Nominal voltage UN                                                                                | 450 V |
| Nominal current IN                                                                                | 24 A  |
| mm²/AWG/kcmil                                                                                     | 2.5   |

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

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

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