

## PCB terminal block - SPT 1,5/ 8-V-3,5 BKBDWH:25-32Q - 1774580

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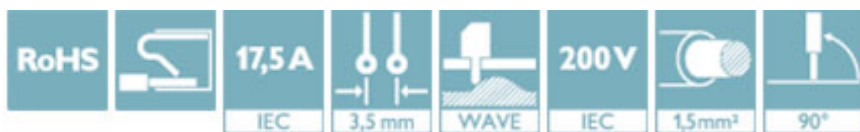


PCB terminal block, nominal current: 17.5 A, nom. voltage: 200 V, pitch: 3.5 mm, number of positions: 8, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 90 °, color: black

The figure shows a 10-position version of the product

### Your advantages

- ✓ Time saving push-in connection, tools not required
- ✓ Defined contact force ensures that contact remains stable over the long term
- ✓ Clamping space opened by means of fixed screwdriver enables convenient conductor connection
- ✓ Operation and conductor connection from one direction enable integration into front of device
- ✓ Two solder pins reduce the mechanical strain on the soldering spots



### Key Commercial Data

|              |               |
|--------------|---------------|
| Packing unit | 50 pc         |
| GTIN         |               |
| GTIN         | 4046356476836 |

### Technical data

#### Item properties

|                           |                           |
|---------------------------|---------------------------|
| Brief article description | PCB terminal block        |
| Range of articles         | SPT 1,5/..-V              |
| Pitch                     | 3.5 mm                    |
| Number of positions       | 8                         |
| Connection method         | Push-in spring connection |
| Mounting type             | Wave soldering            |
| Pin layout                | Linear double pinning     |
| Number of levels          | 1                         |

#### Electrical parameters

|               |        |
|---------------|--------|
| Rated current | 17.5 A |
|---------------|--------|

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## Technical data

### Electrical parameters

|                                  |        |
|----------------------------------|--------|
| Rated insulation voltage (III/2) | 200 V  |
| Rated surge voltage (III/2)      | 2.5 kV |

### Connection capacity

|                                                                       |                                                                       |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| Conductor cross section solid                                         | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                           |
| Conductor cross section flexible                                      | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                           |
| Conductor cross section AWG / kcmil                                   | 24 ... 16                                                             |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Stripping length 8 mm)  |
| Conductor cross section, flexible, with ferrule, with plastic sleeve  | 0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (Stripping length 8 mm) |
| Stripping length                                                      | 10 mm                                                                 |

### Material data - contact

|                                          |                                                                                   |
|------------------------------------------|-----------------------------------------------------------------------------------|
| Note                                     | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/ JEDEC JESD 201 |
| Contact material                         | Cu alloy                                                                          |
| Surface characteristics                  | hot-dip tin-plated                                                                |
| Metal surface terminal point (top layer) | Tin (4 - 8 µm Sn)                                                                 |
| Metal surface soldering area (top layer) | Tin (4 - 8 µm Sn)                                                                 |

### Material data - housing

|                                                                   |        |
|-------------------------------------------------------------------|--------|
| Insulating material                                               | PA     |
| Insulating material group                                         | I      |
| CTI according to IEC 60112                                        | 600    |
| Flammability rating according to UL 94                            | V0     |
| Glow wire flammability index GWFI according to EN 60695-2-12      | 850    |
| Glow wire ignition temperature GWIT according to EN 60695-2-13    | 775    |
| Temperature for the ball pressure test according to EN 60695-10-2 | 125 °C |

### Dimensions for the product

|                             |                                                                                                         |
|-----------------------------|---------------------------------------------------------------------------------------------------------|
| Caption                     | Schematic representation – for additional information, see product range drawing in the Download Center |
| Length [ l ]                | 13.5 mm                                                                                                 |
| Width [ w ]                 | 29.4 mm                                                                                                 |
| Height [ h ]                | 16.9 mm                                                                                                 |
| Pitch                       | 3.5 mm                                                                                                  |
| Height (without solder pin) | 14.4 mm                                                                                                 |
| Solder pin [P]              | 2.5 mm                                                                                                  |
| Pin spacing                 | 3.5 mm                                                                                                  |
| Pin dimensions              | 0.8 x 0.8 mm                                                                                            |
| Dimension a                 | 24.5 mm                                                                                                 |

### Dimensions for PCB design

|               |        |
|---------------|--------|
| Hole diameter | 1.1 mm |
| Pin spacing   | 3.5 mm |

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## Technical data

### Packaging information

|                            |                     |
|----------------------------|---------------------|
| Type of packaging          | packed in cardboard |
| Pieces per package         | 50                  |
| Denomination packing units | Pcs.                |

### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Ambient temperature (assembly)          | -5 °C ... 100 °C |
| Ambient temperature (operation)         | -40 °C           |

### Electrical tests

|                                  |        |
|----------------------------------|--------|
| Rated current                    | 17.5 A |
| Rated insulation voltage (III/2) | 200 V  |
| Rated surge voltage (III/2)      | 2.5 kV |

### Air clearances and creepage distances

|                                  |        |
|----------------------------------|--------|
| Insulating material group        | I      |
| Voltage                          | 160 V  |
| Rated insulation voltage (III/3) | 160 V  |
| Rated insulation voltage (III/2) | 200 V  |
| Rated insulation voltage (II/2)  | 400 V  |
| Rated surge voltage (III/3)      | 2.5 kV |
| Rated surge voltage (III/2)      | 2.5 kV |
| Rated surge voltage (II/2)       | 2.5 kV |

### Standards and Regulations

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

### Environmental Product Compliance

|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

## Approvals

### Approvals

#### Approvals

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

#### Ex Approvals

### Approval details

## PCB terminal block - SPT 1,5/ 8-V-3,5 BKBDWH:25-32Q - 1774580

### Approvals

|                    |         |
|--------------------|---------|
| CCA                | IK-2956 |
| Nominal voltage UN | 130 V   |
| Nominal current IN | 17.5 A  |
| mm²/AWG/kcmil      | 1.5     |

|                    |  |                                                                                   |                                                           |         |
|--------------------|--|-----------------------------------------------------------------------------------|-----------------------------------------------------------|---------|
| IECEE CB Scheme    |  |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | CH-7429 |
|                    |  |                                                                                   |                                                           |         |
| Nominal voltage UN |  | 130 V                                                                             |                                                           |         |
| Nominal current IN |  | 17.5 A                                                                            |                                                           |         |
| mm²/AWG/kcmil      |  | 1.5                                                                               |                                                           |         |

|                    |                                                                                    |                                                                                                                                                     |         |
|--------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| SEV                |  | <a href="https://www.electrosuisse.ch/de/meta/shop/produktezertifikate.html">https://www.electrosuisse.ch/de/meta/shop/produktezertifikate.html</a> | IK-3150 |
|                    |                                                                                    |                                                                                                                                                     |         |
| Nominal voltage UN | 130 V                                                                              |                                                                                                                                                     |         |
| Nominal current IN | 17.5 A                                                                             |                                                                                                                                                     |         |
| mm²/AWG/kcmil      | 1.5                                                                                |                                                                                                                                                     |         |

|     |                                                                                     |         |
|-----|-------------------------------------------------------------------------------------|---------|
| 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> | E60425-20061129 |
|                    | D     | B     |                                                                                     |                                                                                                                                                       |                 |
| Nominal voltage UN | 300 V | 300 V |                                                                                     |                                                                                                                                                       |                 |
| Nominal current IN | 10 A  | 10 A  |                                                                                     |                                                                                                                                                       |                 |
| mm²/AWG/kcmil      | 24-16 | 24-16 |                                                                                     |                                                                                                                                                       |                 |

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