

## PCB terminal block - TDPT 4/ 6-SC-6,35-ZB - 1017519

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PCB terminal block, nominal current: 41 A, nom. voltage: 1000 V, pitch: 6.35 mm, number of positions: 6, connection method: Screw connection with tension sleeve, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green

The figure shows a 5-pos. version of the product

### Why buy this product

- ✓ Easy to adapt, thanks to their identical size and the same pinning for Push-in spring connections as for screw connections
- ✓ Well-known connection principle allows worldwide use
- ✓ Low temperature rise, thanks to maximum contact force



### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 50 STK                                                                                                  |
| Minimum order quantity               | 50 STK                                                                                                  |
| GTIN                                 | <br>4 055626 501529 |
| GTIN                                 | 4055626501529                                                                                           |
| Weight per Piece (excluding packing) | 20.050 g                                                                                                |
| Custom tariff number                 | 85369010                                                                                                |
| Country of origin                    | China                                                                                                   |
| Note                                 | Made to Order (non-returnable)                                                                          |

### Technical data

#### Item properties

|                           |                                      |
|---------------------------|--------------------------------------|
| Brief article description | PCB terminal block                   |
| Range of articles         | TDPT 4/..-SC                         |
| Pitch                     | 6.35 mm                              |
| Number of positions       | 6                                    |
| Connection method         | Screw connection with tension sleeve |
| Drive form screw head     | Slotted (L)                          |
| Screw thread              | M3                                   |

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## Technical data

### Item properties

|                  |                |
|------------------|----------------|
| Mounting type    | Wave soldering |
| Number of levels | 1              |

### Electrical parameters

|                                  |        |
|----------------------------------|--------|
| Rated current                    | 41 A   |
| Rated insulation voltage (III/2) | 1000 V |
| Rated surge voltage (III/2)      | 8 kV   |

### Connection capacity

|                                                                       |                                             |
|-----------------------------------------------------------------------|---------------------------------------------|
| Conductor cross section solid                                         | 0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>   |
| Conductor cross section flexible                                      | 0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>   |
| Conductor cross section AWG / kcmil                                   | 24 ... 10                                   |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| Conductor cross section, flexible, with ferrule, with plastic sleeve  | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| 2 conductors with same cross section, solid                           | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| 2 conductors with same cross section, flexible                        | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| 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

|               |              |
|---------------|--------------|
| Housing color | green (6021) |
|---------------|--------------|

### Dimensions for the product

|                             |              |
|-----------------------------|--------------|
| Length [ l ]                | 20.75 mm     |
| Width [ w ]                 | 38.9 mm      |
| Pitch                       | 6.35 mm      |
| Height (without solder pin) | 23.4 mm      |
| Solder pin [ P ]            | 3.5 mm       |
| Pin dimensions              | 0.9 x 0.9 mm |
| Dimension a                 | 31.75 mm     |

### Dimensions for PCB design

|               |        |
|---------------|--------|
| Hole diameter | 1.7 mm |
|---------------|--------|

### Packaging information

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

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## Technical data

### Ambient conditions

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

### Termination and connection method

|                                          |                     |
|------------------------------------------|---------------------|
| Test for conductor damage and slackening | IEC 60999-1:1999-11 |
|                                          | Test passed         |

### Pull-out test

|                                                          |                                        |
|----------------------------------------------------------|----------------------------------------|
| Pull-out test                                            | Test passed IEC 60999-1:1999-11 0.6 Nm |
|                                                          | IEC 60999-1:1999-11                    |
|                                                          | Test passed                            |
| Conductor cross section / conductor type / tensile force | 0.2 mm² flexible > 10 N                |

### Mechanical tests according to standard

|                    |               |
|--------------------|---------------|
| Test specification | IEC 60947-7-4 |
|--------------------|---------------|

### Electrical tests

|                                  |        |
|----------------------------------|--------|
| Rated current                    | 41 A   |
| Rated insulation voltage (III/2) | 1000 V |
| Rated surge voltage (III/2)      | 8 kV   |

### Air clearances and creepage distances

|                                  |        |
|----------------------------------|--------|
| Insulating material group        | I      |
| Voltage                          | 800 V  |
| Rated insulation voltage (III/3) | 800 V  |
| Rated insulation voltage (III/2) | 1000 V |
| Rated insulation voltage (II/2)  | 1000 V |
| Rated surge voltage (III/3)      | 8 kV   |
| Rated surge voltage (III/2)      | 8 kV   |
| Rated surge voltage (II/2)       | 6 kV   |

### Electrical tests - Function

|               |               |
|---------------|---------------|
| Specification | IEC 60947-7-4 |
|---------------|---------------|

### Temperature cycles

|               |               |
|---------------|---------------|
| Specification | IEC 60947-7-4 |
|---------------|---------------|

### Temperature-rise test

|               |                       |
|---------------|-----------------------|
| Result        | Test passed           |
| Specification | IEC 60947-7-4:2013-08 |

### Current carrying capacity / derating curves

|               |               |
|---------------|---------------|
| Specification | IEC 60947-7-4 |
|---------------|---------------|

### Standards and Regulations

# PCB terminal block - TDPT 4/ 6-SC-6,35-ZB - 1017519

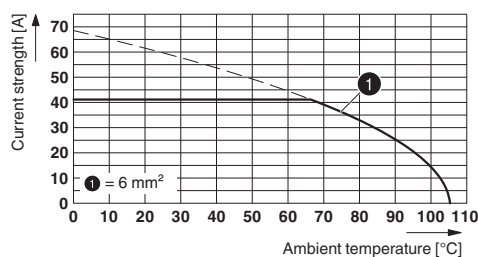
## Technical data

### Standards and Regulations

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

## Drawings

Diagram



Type: TDPT 4/...-SC-6,35-ZB

## Classifications

eCl@ss

|            |          |
|------------|----------|
| eCl@ss 8.0 | 27440401 |
| eCl@ss 9.0 | 27440401 |

ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC002643 |
|----------|----------|

## Approvals

Approvals

Approvals

cULus Recognized

Ex Approvals

### Approval details

|                  |                                                                                     |                                                                                                                                                                       |       |
|------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 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> E60425-20180122 |       |
|                  | B                                                                                   | C                                                                                                                                                                     | D     |
| mm²/AWG/kcmil    | 24-10                                                                               | 24-10                                                                                                                                                                 | 24-10 |

## PCB terminal block - TDPT 4/ 6-SC-6,35-ZB - 1017519

### Approvals

|                                | B     | C     | D     |
|--------------------------------|-------|-------|-------|
| Nominal current I <sub>N</sub> | 30 A  | 30 A  | 10 A  |
| Nominal voltage U <sub>N</sub> | 600 V | 600 V | 300 V |

### Accessories

#### Accessories

#### Screwdriver tools

Screwdriver - SZF 1-0,6X3,5 - 1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip