

PCB terminal block - TDPT 4/ 4-SP-6,35-ZB - 1017523

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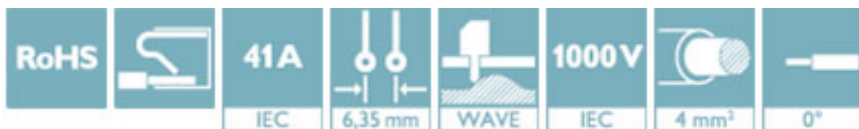


PCB terminal block, nominal current: 41 A, nom. voltage: 1000 V, pitch: 6.35 mm, number of positions: 4, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green

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
- ✓ Time saving push-in connection, tools not required
- ✓ Defined contact force ensures that contact remains stable over the long term
- ✓ Intuitive use through colour coded actuation lever



Key Commercial Data

| | |
|--------------------------------------|---------------|
| Packing unit | 50 STK |
| Minimum order quantity | 50 STK |
| GTIN | |
| GTIN | 4055626501550 |
| Weight per Piece (excluding packing) | 13.910 g |
| Custom tariff number | 85369010 |
| Country of origin | China |

Technical data

Item properties

| | |
|---------------------------|---------------------------|
| Brief article description | PCB terminal block |
| Range of articles | TDPT 4/..-SP |
| Pitch | 6.35 mm |
| Number of positions | 4 |
| Connection method | Push-in spring connection |
| Mounting type | Wave soldering |
| Pin layout | Zigzag pinning W |

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Technical data

Item properties

| | |
|------------------|---|
| 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 ² ... 6 mm ² |
| Conductor cross section flexible | 0.2 mm ² ... 6 mm ² (Conductor connection with open terminal point) |
| Conductor cross section AWG / kcmil | 24 ... 10 |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.2 mm ² ... 4 mm ² |
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.2 mm ² ... 4 mm ² |
| 2 conductors with same cross section, stranded, with TWIN ferrules with plastic sleeve | 0.5 mm ² ... 1.5 mm ² |
| 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 (10 - 16 µm Sn) |
| Metal surface soldering area (top layer) | Tin (10 - 16 µm Sn) |

Material data - housing

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

Dimensions for the product

| | |
|-----------------------------|--------------|
| Length [l] | 20.75 mm |
| Width [w] | 26.2 mm |
| Pitch | 6.35 mm |
| Height (without solder pin) | 23.4 mm |
| Solder pin [P] | 3.5 mm |
| Pin dimensions | 1.7 x 0.8 mm |
| Dimension a | 19.05 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. |

Ambient conditions

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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 |
| | IEC 60999-1:1999-11 |
| | Test passed |
| Conductor cross section / conductor type / tensile force | 0.2 mm ² solid > 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/ 4-SP-6,35-ZB - 1017523

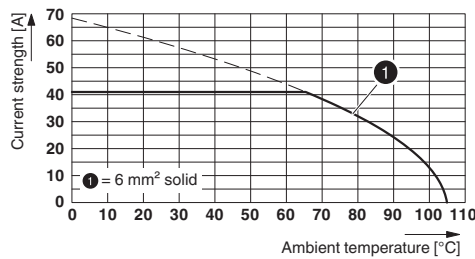
Technical data

Standards and Regulations

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

Drawings

Diagram



Type: TDPT 4/...-SP-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 / cULus Recognized

Ex Approvals

Approval details

| | | | |
|------------------|-------|---|-------|
| cULus Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm E60425-20180122 | |
| | B | C | D |
| mm²/AWG/kcmil | 24-10 | 24-10 | 24-10 |

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Approvals

| | B | C | D |
|--------------------|-------|-------|-------|
| Nominal current IN | 30 A | 30 A | 10 A |
| Nominal voltage UN | 600 V | 600 V | 300 V |

cULus Recognized  <http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm> E60425-20180122

| | B | C | D |
|----------------------------|-------|-------|-------|
| mm ² /AWG/kcmil | 24-10 | 24-10 | 24-10 |
| Nominal current IN | 30 A | 30 A | 10 A |
| Nominal voltage UN | 600 V | 600 V | 300 V |

Accessories

Accessories

Screwdriver tools

Screwdriver - SZF 3-1,0X5,5 - 1206612



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 1.0 x 5.5 x 150 mm, 2-component grip, with non-slip grip