

# 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	
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

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

## 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)
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### 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
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### 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 mm <sup>2</sup> flexible > 10 N

### Mechanical tests according to standard

Test specification	IEC 60947-7-4
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### 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
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### Temperature cycles

Specification	IEC 60947-7-4
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### Temperature-rise test

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

### Current carrying capacity / derating curves

Specification	IEC 60947-7-4
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### Standards and Regulations

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

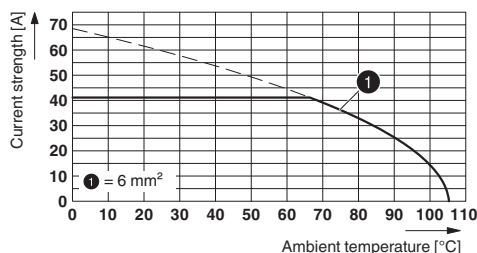
## Technical data

### 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
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## 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