

## PCB terminal block - TDPT 16/ 6-SC-10,16-ZB - 1017530

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



PCB terminal block, nominal current: 76 A, nom. voltage: 1000 V, pitch: 10.16 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	4055626501628
Weight per Piece (excluding packing)	55.630 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 16/...SC
Pitch	10.16 mm
Number of positions	6
Connection method	Screw connection with tension sleeve
Drive form screw head	Slotted (L)
Mounting type	Wave soldering

# PCB terminal block - TDPT 16/ 6-SC-10,16-ZB - 1017530

## Technical data

### Item properties

Pin layout	Zigzag pinning W
Number of levels	1

### Electrical parameters

Rated current	76 A
Rated insulation voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV

### Connection capacity

Conductor cross section solid	0.75 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Conductor cross section flexible	0.75 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Conductor cross section AWG / kcmil	20 ... 6
Conductor cross section flexible, with ferrule without plastic sleeve	0.75 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.75 mm <sup>2</sup> ... 16 mm <sup>2</sup>
2 conductors with same cross section, solid	0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
2 conductors with same cross section, flexible	0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Stripping length	18 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 ]	31.9 mm
Width [ w ]	61.98 mm
Pitch	10.16 mm
Height (without solder pin)	31.2 mm
Solder pin [P]	3.5 mm
Pin dimensions	1 x 0.9 mm
Dimension a	50.8 mm

### Dimensions for PCB design

Hole diameter	1.85 mm
---------------	---------

### Packaging information

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

# PCB terminal block - TDPT 16/ 6-SC-10,16-ZB - 1017530

## Technical data

### 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 1.4 Nm
	IEC 60999-1:1999-11
	Test passed
Conductor cross section / conductor type / tensile force	0.75 mm <sup>2</sup> flexible > 30 N

### Mechanical tests according to standard

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

### Electrical tests

Rated current	76 A
Rated insulation voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV

### Air clearances and creepage distances

Insulating material group	I
Comparative tracking index (IEC 60112:2003-01)	CTI 600
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
Minimum clearance - inhomogeneous field (III/3)	8 mm
Minimum clearance - inhomogeneous field (III/2)	8 mm
Minimum clearance - inhomogeneous field (II/2)	8 mm
Minimum creepage distance value (III/3)	10 mm
Minimum creepage distance value (III/2)	8 mm
Minimum creepage distance value (II/2)	8 mm

### 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

# PCB terminal block - TDPT 16/ 6-SC-10,16-ZB - 1017530

## Technical data

### Current carrying capacity / derating curves

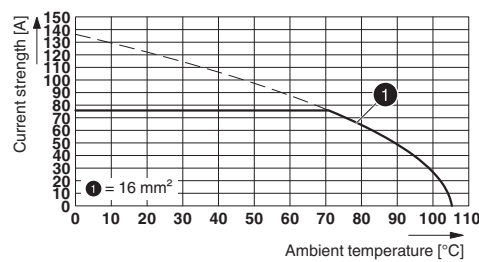
Specification	IEC 60947-7-4
---------------	---------------

### Standards and Regulations

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

## Drawings

Diagram



Type: TDPT 16/...-SC-10,16-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

# PCB terminal block - TDPT 16/ 6-SC-10,16-ZB - 1017530

## Approvals

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
mm <sup>2</sup> /AWG/kcmil	20-6	20-6	20-6
Nominal current I <sub>N</sub>	58 A	58 A	10 A
Nominal voltage U <sub>N</sub>	600 V	600 V	300 V

## Accessories

### Accessories

#### Screwdriver tools

Screwdriver - SZF 2-0,8X4,0 - 1204520



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.8 x 4.0 x 100 mm, 2-component grip, with non-slip grip