

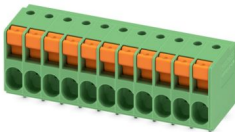
TDPT 2,5/ 11-SP-5,08 - PCB terminal block



1017512

<https://www.phoenixcontact.com/us/products/1017512>

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 documentation. Our general terms of use for downloads are valid.



PCB terminal block, nominal current: 32 A, rated voltage (III/2): 400 V, nominal cross section: 2.5 mm², number of potentials: 11, number of rows: 1, number of positions per row: 11, product range: TDPT 2,5/..-SP, pitch: 5.08 mm, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm, number of solder pins per potential: 2, type of packaging: packed in cardboard

Your advantages

- 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 operation due to color-coded actuating push button

Commercial data

Item number	1017512
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA13
Product key	AAMBGA
GTIN	4055626501468
Weight per piece (including packing)	22.184 g
Weight per piece (excluding packing)	13.04 g
Customs tariff number	85369010
Country of origin	CN

TDPT 2,5/ 11-SP-5,08 - PCB terminal block



1017512

<https://www.phoenixcontact.com/us/products/1017512>

Technical data

Product properties

Product type	Printed circuit board terminal
Product family	TDPT 2,5/..-SP
Product line	COMBICON Terminals M
Number of positions	11
Pitch	5.08 mm
Number of connections	11
Number of rows	1
Number of potentials	11
Pin layout	Linear pinning
Solder pins per potential	2

Electrical properties

Nominal current I_N	32 A
Nominal voltage U_N	400 V
Degree of pollution	3
Rated voltage (III/3)	320 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	400 V
Rated surge voltage (III/2)	4 kV
Rated voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

Connection data

Connection technology

Nominal cross section	2.5 mm ²
-----------------------	---------------------

Conductor connection

Connection method	Push-in spring connection
Conductor cross section rigid	0.2 mm ² ... 4 mm ² (Conductor connection with open terminal point)
	0.75 mm ² ... 4 mm ² (Push-in connection)
Conductor cross section flexible	0.2 mm ² ... 4 mm ²
Conductor cross section AWG	24 ... 12
Conductor cross section flexible, with ferrule without plastic sleeve	0.2 mm ² ... 2.5 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.2 mm ² ... 2.5 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² ... 0.75 mm ²
Stripping length	10 mm

Mounting

TDPT 2,5/ 11-SP-5,08 - PCB terminal block



1017512

<https://www.phoenixcontact.com/us/products/1017512>

Mounting type	Wave soldering
Pin layout	Linear pinning
Processing notes	
Process	Wave soldering

Material specifications

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	Tin-plated
Metal surface terminal point (top layer)	Tin (10 - 16 µm Sn)
Metal surface soldering area (top layer)	Tin (10 - 16 µm Sn)

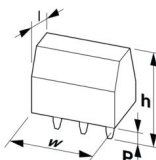
Material data - housing

Color (Housing)	green (6021)
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

Material data – actuating element

Color (Actuating element)	orange (2003)
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

Dimensional drawing	
Pitch	5.08 mm

TDPT 2,5/ 11-SP-5,08 - PCB terminal block



1017512

<https://www.phoenixcontact.com/us/products/1017512>

Width [w]	56.68 mm
Height [h]	22.5 mm
Length [l]	18 mm
Installed height	19 mm
Solder pin length [P]	3.5 mm
Pin dimensions	0.8 x 0.8 mm

PCB design

Pin spacing	8.7 mm
Hole diameter	1.4 mm

Mechanical tests

Test for conductor damage and slackening

Specification	IEC 60999-1:1999-11
Result	Test passed

Pull-out test

Specification	IEC 60999-1:1999-11
Conductor cross section/conductor type/tractive force setpoint/actual value	0.2 mm ² / solid / > 10 N
	0.2 mm ² / flexible / > 10 N
	4 mm ² / solid / > 60 N
	4 mm ² / flexible / > 60 N

Electrical tests

Temperature-rise test

Specification	IEC 60947-7-4:2013-08
Requirement temperature-rise test	The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper limiting temperature.

Short-time withstand current

Specification	IEC 60947-7-4:2013-08
---------------	-----------------------

Insulation resistance

Specification	IEC 60512-3-1:2002-02
---------------	-----------------------

Air clearances and creepage distances |

Specification	IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09
Insulating material group	I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	320 V
Rated surge voltage (III/3)	4 kV
minimum clearance value - non-homogenous field (III/3)	3 mm
minimum creepage distance (III/3)	4 mm
Rated insulation voltage (III/2)	400 V
Rated surge voltage (III/2)	4 kV

TDPT 2,5/ 11-SP-5,08 - PCB terminal block



1017512

<https://www.phoenixcontact.com/us/products/1017512>

minimum clearance value - non-homogenous field (III/2)	3 mm
minimum creepage distance (III/2)	3 mm
Rated insulation voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV
minimum clearance value - non-homogenous field (II/2)	3 mm
minimum creepage distance (II/2)	3.2 mm

Environmental and real-life conditions

Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz ... 60.1 Hz)
Acceleration	5g (60.1 Hz ... 150 Hz)
Test duration per axis	2.5 h

Glow-wire test

Specification	IEC 60695-2-10:2013-04
Temperature	850 °C
Time of exposure	5 s

Aging

Specification	IEC 60947-7-4:2013-08
---------------	-----------------------

Ambient conditions

Ambient temperature (operation)	-40 °C ... 105 °C (Depending on the current carrying capacity/derating curve)
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 105 °C

Packaging specifications

Type of packaging	packed in cardboard
-------------------	---------------------

TDPT 2,5/ 11-SP-5,08 - PCB terminal block

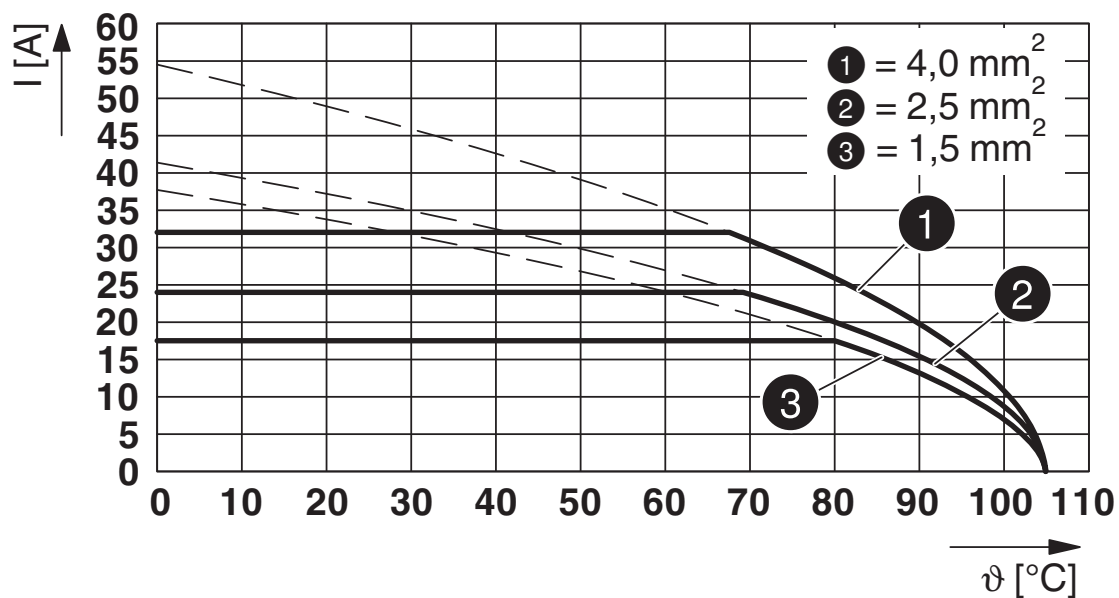
1017512

<https://www.phoenixcontact.com/us/products/1017512>



Drawings

Diagram



Type: TDPT 2,5/...-SP-5,08

TDPT 2,5/ 11-SP-5,08 - PCB terminal block



1017512

<https://www.phoenixcontact.com/us/products/1017512>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1017512>

 cULus Recognized Approval ID: E60425-20180122				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B	300 V	20 A	24 - 12	-
Use group C	150 V	20 A	24 - 12	-
Use group D	300 V	10 A	24 - 12	-

 VDE Zeichengenehmigung Approval ID: 40049168				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	400 V	32 A	-	0.2 - 4

TDPT 2,5/ 11-SP-5,08 - PCB terminal block



1017512

<https://www.phoenixcontact.com/us/products/1017512>

Classifications

ECLASS

ECLASS-11.0	27460101
ECLASS-12.0	27460101
ECLASS-13.0	27460101

ETIM

ETIM 9.0	EC002643
----------	----------

UNSPSC

UNSPSC 21.0	39121400
-------------	----------

TDPT 2,5/ 11-SP-5,08 - PCB terminal block



1017512

<https://www.phoenixcontact.com/us/products/1017512>

Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

TDPT 2,5/ 11-SP-5,08 - PCB terminal block



1017512

<https://www.phoenixcontact.com/us/products/1017512>

Accessories

SZF 2-0,8X4,0 - Screwdriver

1204520

<https://www.phoenixcontact.com/us/products/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

MPS-MT - Test plug

0201744

<https://www.phoenixcontact.com/us/products/0201744>



Test plug, with solder connection up to 1 mm² conductor cross section, number of positions: 1, color: gray

Phoenix Contact 2024 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com