Order No.: 1017516

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

PCB terminal block, Screw connection with tension

sleeve



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

1 Main features

















· No. of pos. 4

Conductor cross section 4 mm² Color green Pitch 6.35 mm

Connection method Screw connection with

tension sleeve

41 A Nominal current 1000 V Nominal voltage

Connection direction 0°

Type of packaging packed in cardboard

2 Your advantages

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

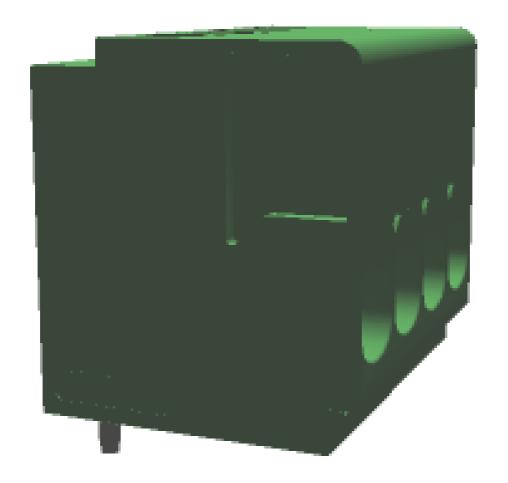


Make sure you always use the latest documentation. It can be downloaded at: phoenixcontact.net/product/1017516



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4 3D model in PDF can be activated (Acrobat Reader only)



5 item properties

Order No.	1017516
Туре	TDPT 4/ 4-SC-6,35-ZB
Range of articles	TDPT 4/SC
Pitch	6.35 mm
Number of positions	4
Connection method	Screw connection with tension sleeve
Drive form screw head	Slotted (L)
Screw thread	M3
Tightening torque	0.6 Nm 0.8 Nm
Mounting type	Wave soldering

5.1 Connection capacity

Conductor cross section, solid	0.2 mm ² to 6 mm ²
Conductor cross section, flexible	0.2 mm ² to 6 mm ²
Conductor cross section AWG/kcmil	24 to 10
2 conductors with same cross section, solid	0.2 mm ² to 1.5 mm ²
2 conductors with same cross section, stranded	0.2 mm ² to 1.5 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve	0.2 mm ² to 4 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve	0.2 mm ² to 4 mm ²
Stripping length	10 mm

5.2 Material data

Material of metal parts		
Note	WEEE/RoHS-compliant, whisker-free a	acc. to IEC 60068-2-82/JEDEC JESD 201
Contact material	Cu alloy	
Surface characteristics	hot-dip tin-plated	
Insulating material data	Housing	Housing
Insulating material	PA	
CTI according to IEC 60112	600	
Flammability rating according to UL 94	V0	
Color	green (6021)	
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	

6 Dimensions

6.1 Dimensions for the product

Length	20.75 mm
Width	26.2 mm
Height (without solder pin)	23.4 mm
Total height	26.9 mm
Solder pin [P]	3.5 mm
Dimension a	19.05 mm

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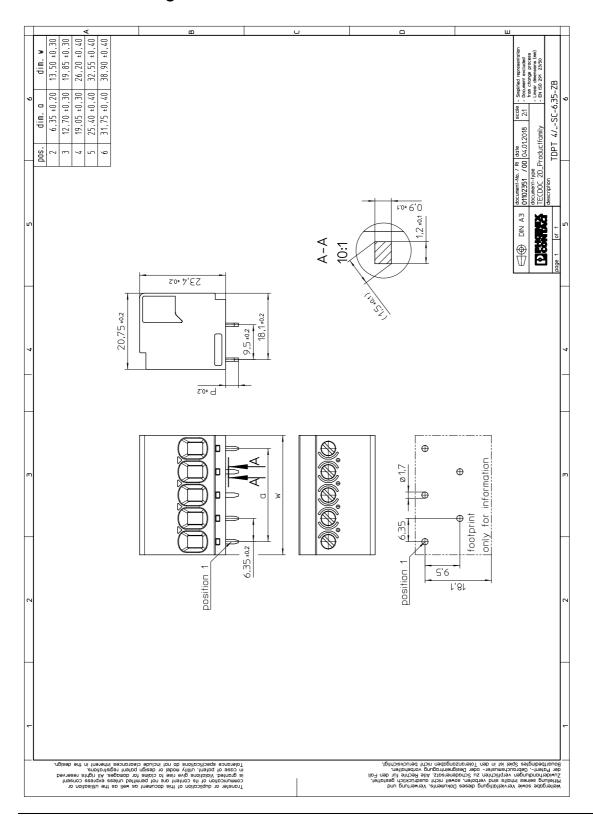
6.2 Dimensions for PCB design

Hole diameter 1.7 mm

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7 Series drawing



8 Packaging information

Type of packaging	packed in cardboard
Pieces per package	50

9 Application

9.1 Temperature limit values

Ambient temperature (storage/transport)	-40 °C 70 °C
Ambient temperature (assembly)	-5 °C 100 °C
Ambient temperature (operation)	-40 °C (dependent on the derating curve)

9.2 Termination and connection method

Specification	IEC 60999-1:1999-11
Check for damage to conductor or loosening	Test passed

9.3 Pull-out test

Termination and connection method: pull-out test	
Specification	IEC 60999-1:1999-11
Result	Test passed
Conductor cross section/conductor type/tractive force actual value	$0.2 \text{ mm}^2 / \text{stranded} / > 10 \text{ N}$
Conductor cross section/conductor type/tractive force actual value	$0.2 \text{ mm}^2 / \text{solid} / > 10 \text{ N}$
Conductor cross section/conductor type/tractive force actual value	6 mm ² / stranded / > 80 N
Conductor cross section/conductor type/tractive force actual value	$6 \text{ mm}^2 / \text{solid} / > 80 \text{ N}$
Conductor cross section/conductor type/tractive force actual value	4 mm ² / stranded with ferrule / > 60 N

10 Electrical tests

10.1 Electrical data

Rated current / conductor cross section	41 A / 4 mm ²
Rated insulation voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV
Contact resistance	$0.39\mathrm{m}\Omega$
Degree of pollution	2

10.2 Short-time withstand current test

Specification	IEC 60947-7-4:2013-08
Result	Test passed
Conductor cross section/short-time current	6 mm ² / 130 A AC

10.3 Aging test (climatic impact and corrosion testing)

Specification	IEC 60947-7-4:2013-08
Result	Test passed
Contact resistance R ₁	$0.39\text{m}\Omega/6\text{m}\text{m}^2$
Test sequence 1: low temperature storage	-40 °C / 2 h
Test sequence 2: heat storage	168 h/105 °C
Test sequence 3: noxious gas storage (ISO 6988)	KFW 0.2 S/1 cycle
Contact resistance R ₂	$0.42\text{m}\Omega/6\text{m}\text{m}^2$
Rated impulse voltage at sea level Voltage waveform ≥ (1.2/50 µs)	9.8 kV
Power-frequency withstand voltage Voltage waveform ≥ (50/60 Hz)	4.2 kV

10.4 Insulation resistance

Specification	IEC 60512-3-1:2002-02
Result	Test passed

10.5 Mechanical connection test for the PCB terminal block

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

10.6 Temperature-rise test

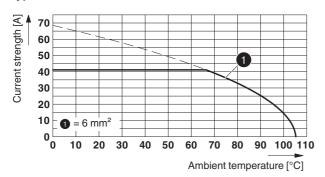
Specification	IEC 60947-7-4:2013-08
Result	Test passed

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11 Current carrying capacity/derating curves

Specification	IEC 60512-5-2:2002-02
Reduction factor	1
Number of positions	4

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12 Environmental and durability tests

12.1 Assessment of fire risk (glow wire test)

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

12.2 Vibration test

Specification	IEC 60068-2-6:2007-12
Result	Test passed
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 - 60.1 Hz)
Acceleration	5 g (60.1 - 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis

Contact interruption

13 Approvals

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Use group	В	С	D	
mm²/AWG/kcmil	24-10	24-10	24-10	
Voltage	600 V	600 V	300 V	
Current	30 A	30 A	10 A	

14 Commercial Data

Order No.	1017516		
Туре	TDPT 4/ 4-SC-6,35-ZB		
Pieces per package	50		
Net weight	15.278 g		
GTIN	4055626501505		
	Information that applies locally, see link on page 1		
Country of origin	Information that applies locally, see link on page 1		

15 Accessories

Description	Order No.	Туре
Actuation tool, for ST terminal blocks, also suitable for use as a bladed	1204517	SZF 1-0,6X3,5
screwdriver size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip		