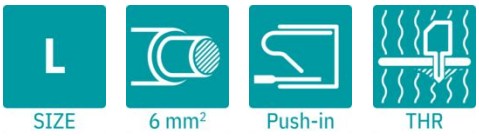
PTSPL-6/1-2X2 2,9 VPE500 - PCB terminal block

1704834

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PCB terminal block, nominal current: 41 A, nominal cross section: 6 mm^2, number of potentials: 1, number of rows: 1, number of positions per row: 1, product range: PTSPL 6/.., pitch: 0 mm, connection method: Push-in spring connection, mounting: THR soldering / wave soldering, conductor/PCB connection direction: 0 °, color: black, Pin layout: Linear pinning, Solder pin [P]: 2.9 mm, number of solder pins per potential: 4, type of packaging: Box packaging

Your advantages

- Able to perform without insulating elements: ideal for easy integration into the SMT soldering process
- Tool-free spring principle enables time-saving connection of conductors with ferrules and tinned conductors
- Defined contact force ensures that contact remains stable over the long term

Commercial data

Item number	1704834
Packing unit	500 pc
Minimum order quantity	5,000 pc
Product key	AANCBA
GTIN	4046356739986
Weight per piece (including packing)	1.88 g
Weight per piece (excluding packing)	1.78 g
Country of origin	DE

Technical data

Product properties

Product type	PCB terminal block
Product family	PTSPL 6/..
Product line	COMBICON Terminals L
Type	Circular conductor connection, single-pos.
Number of positions	1
Pitch	0 mm
Number of connections	1
Number of rows	1
Number of potentials	1
Pin layout	Linear pinning
Solder pins per potential	4

Fitting of components

Partial assembly	No

Electrical properties

Properties

Nominal current I_N	41 A

Connection data

Connection technology

Type	Circular conductor connection, single-pos.
Nominal cross section	6 mm²

Conductor connection

Connection method	Push-in spring connection
Conductor cross-section flexible	2.5 mm² ... 6 mm² (Conductors with tin-plated litz wires are to be used, for example type PV1-F.)
Conductor cross-section, flexible, with ferrule, without plastic sleeve	2.5 mm² ... 6 mm²
Stripping length	12 mm ... 15 mm

Mounting

Mounting type	THR soldering / wave soldering
Pin layout	Linear pinning

Material specifications

Material data - contact

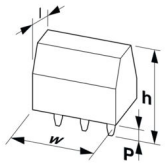
Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
Contact material	Cu alloy

Surface characteristics	hot-dip tin-plated
Metal surface terminal point (top layer)	Tin (4 µm - 8 µm Sn)
Metal surface soldering area (top layer)	Tin (4 µm - 8 µm Sn)

Material data - housing

Color (Housing)	black (9005)

Dimensions

Dimensional drawing	
Width [w]	8.7 mm
Height [h]	13.7 mm
Length [l]	14.95 mm
Installed height	10.8 mm
Solder pin length [P]	2.9 mm
Pin dimensions	0.6 x 1 mm

PCB design

Hole diameter	1.3 mm

Mechanical tests

Conductor connection

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

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	2.5 mm² / stranded PV1-F / > 50 N
	6 mm² / stranded PV1-F / > 80 N

Electrical tests

Temperature-rise test

Specification	60947-7-4/FDIS © IEC 2012
Requirement temperature-rise test	Increase in temperature ≤ 45 K

Temperature cycles

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

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
Test directions	X-, Y- and Z-axis

Shocks

Specification	IEC 60068-2-27:2008-02
Pulse shape	Semi-sinusoidal
Acceleration	30g
Shock duration	18 ms
Test directions	X-, Y- and Z-axis (pos. and neg.)

Railway application: Shocks

Acceleration	30g
Shock duration	18 ms
Test directions	X-, Y- and Z-axis (pos. and neg.)

Ambient conditions

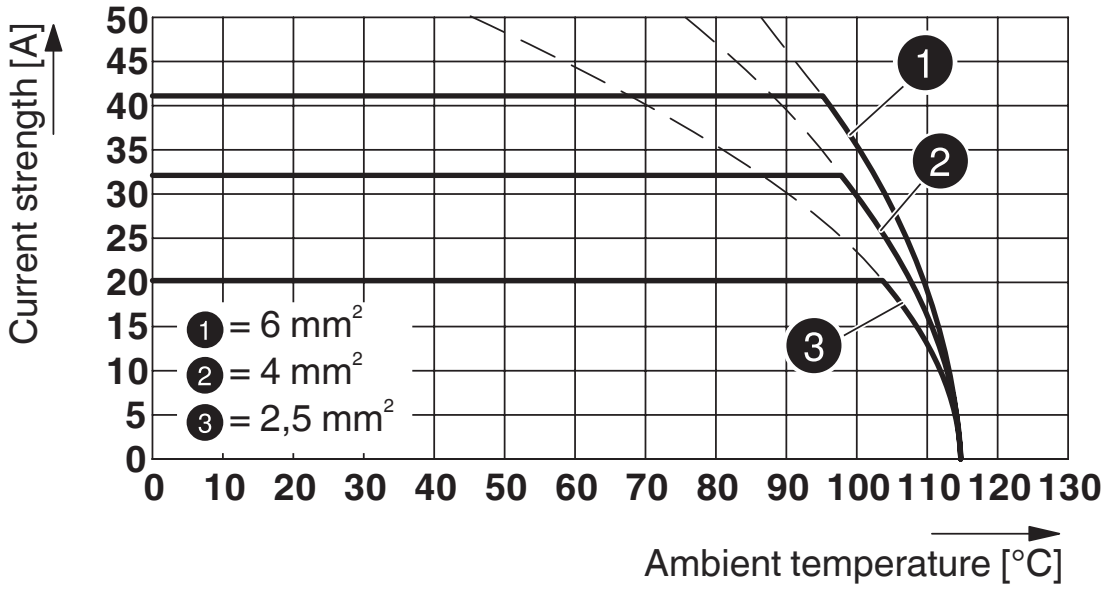
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-40 °C ... 100 °C (Depending on the current carrying capacity/derating curve)

Packaging specifications

Type of packaging	Box packaging

Drawings

Diagram



Type: PTSPL(O)-6/1-2X2 ... R32

Approvals

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cULus Recognized
Approval ID: E365246-20141111

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	-	30 A	14 - 10	-

Classifications

ECLASS

ECLASS-13.0	27460101
ECLASS-15.0	27460101

ETIM

ETIM 10.0	EC002643

UNSPSC

UNSPSC 21.0	39121400

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%

EF3.1 Climate Change

CO2e kg	0.016 kg CO2e

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