PCB terminal block - PT 1,5/ 2-5,0-H - 1935161

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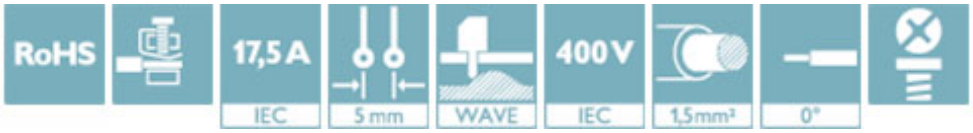
PCB terminal block, nominal current: 17.5 A, nom. voltage: 400 V, pitch: 5 mm, number of positions: 2, connection method: Screw connection with wire protector, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green

The figure shows a 10-position version of the product

Your advantages

- Well-known connection principle allows worldwide use
- Low temperature rise, thanks to maximum contact force
- High terminal block capacity thanks to rectangular terminal block space
- Allows connection of two conductors
- The latching on the side enables various numbers of positions to be combined



Key Commercial Data

Packing unit	250 pc
GTIN	4 017918 916930
GTIN	4017918916930

Technical data

Item properties

Brief article description	PCB terminal block
Range of articles	PT 1,5/..-H
Pitch	5 mm
Number of positions	2
Connection method	Screw connection with wire protector
Drive form screw head	Philipps recess with slotted Torx (H1L)
Screw thread	M2,6
Mounting type	Wave soldering
Pin layout	Linear pinning
Number of levels	1

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Technical data

Item properties

Number of connections	2
Number of potentials	2

Electrical parameters

Rated current	17.5 A
Rated insulation voltage (III/2)	400 V
Rated surge voltage (III/2)	4 kV

Connection capacity

Conductor cross section solid	0.2 mm² ... 2.5 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG / kcmil	26 ... 14
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² ... 1.5 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² ... 1.5 mm²
2 conductors with same cross section, solid	0.2 mm² ... 0.75 mm²
2 conductors with same cross section, flexible	0.2 mm² ... 0.75 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve	0.25 mm² ... 0.34 mm²
2 conductors with same cross section, stranded, with TWIN ferrules with plastic sleeve	0.5 mm² ... 0.75 mm²
Stripping length	5 mm
Torque	0.35 Nm ... 0.4 Nm

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 (3 - 12 µm Sn)
Metal surface terminal point (middle layer)	Nickel (1.5 - 4 µm Ni)
Metal surface soldering area (top layer)	Tin (3 - 12 µm Sn)
Metal surface soldering area (middle layer)	Nickel (1.5 - 4 µm Ni)

Material data - housing

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 for the product

Length [l]	9 mm

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Dimensions for the product

Width [w]	10 mm
Height [h]	14.9 mm
Pitch	5 mm
Height (without solder pin)	11.4 mm
Solder pin [P]	3.5 mm
Pin spacing	5 mm
Pin dimensions	ø 1 mm
Dimension a	5 mm

Dimensions for PCB design

Hole diameter	1.3 mm
Pin spacing	5 mm

Packaging information

Type of packaging	packed in cardboard
Pieces per package	250
Denomination packing units	Pcs.

General product information

Type of note	Note on application
Note	For safe conductor connection, always adhere to a defined tightening torque. Particularly in the case of PCB terminal blocks with two or three positions, the individual solder pin for each contact point cannot compensate for this. That is why the terminal blocks must be supported during conductor connection (held with one hand, support on the housing).
Type of note	Note on application
Note	When using ferrules and taking the specified stripping length into consideration, 250 V is only achieved in conjunction with overvoltage category/pollution degree II/2.

Ambient conditions

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)

Termination and connection method

Test for conductor damage and slackening	IEC 60999-1:1999-11
	Test passed

Pull-out test

Pull-out test	IEC 60999-1:1999-11
	Test passed
Conductor cross section / conductor type / tensile force	0.2 mm² / flexible / > 10 N
	0.2 mm² / solid / > 10 N
	2.5 mm² / flexible / > 50 N

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Technical data

Pull-out test

	2.5 mm² / solid / > 50 N

Electrical tests

Rated current	17.5 A
Rated insulation voltage (III/2)	400 V
Rated surge voltage (III/2)	4 kV

Air clearances and creepage distances

Insulating material group	I
Rated insulation voltage (III/3)	250 V
Rated insulation voltage (III/2)	400 V
Rated insulation voltage (II/2)	630 V
Rated surge voltage (III/3)	4 kV
Rated surge voltage (III/2)	4 kV
Rated surge voltage (II/2)	4 kV

Current carrying capacity / derating curves

Standards and Regulations

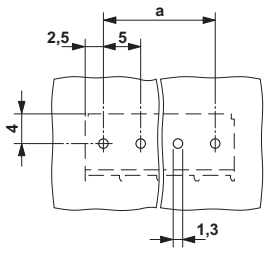
Connection in acc. with standard	EN-VDE
	CUL
Flammability rating according to UL 94	V0

Environmental Product Compliance

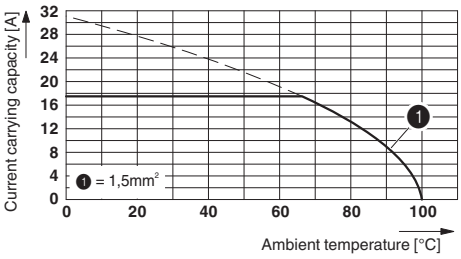
REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration”

Drawings

Drilling diagram



Diagram



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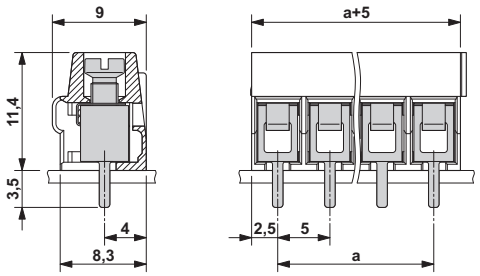
Dimensional drawing



Approvals

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IECEE CB Scheme / SEV / VDE Gutachten mit Fertigungsüberwachung / EAC / cULus Recognized / CCA

Ex Approvals

Approval details

IECEE CB Scheme	CB scheme	http://www.iecee.org/	DE1-61760

Nominal voltage UN	250 V
Nominal current IN	24 A
mm²/AWG/kcmil	0.2-2.5

SEV	SEV	https://www.electrosuisse.ch/de/meta/shop/produktezertifikate.html	IK-3558-M2

Nominal voltage UN	250 V
Nominal current IN	16 A
mm²/AWG/kcmil	2.5

VDE Gutachten mit Fertigungsüberwachung	VDE	http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx	40031691

Nominal voltage UN	250 V

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Nominal current IN	24 A
mm²/AWG/kcmil	0.2-2.5

EAC		B.01742

cULus Recognized	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E60425-20030211

	D	B
Nominal voltage UN	300 V	300 V
Nominal current IN	10 A	18 A
mm²/AWG/kcmil	26-12	26-12

CCA	CCA/DE1 34714
Nominal voltage UN	250 V
Nominal current IN	24 A
mm²/AWG/kcmil	0.2-2.5

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