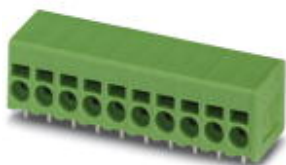


PCB terminal block - SPT 2,5/ 2-H-5,0 BK - 1704736

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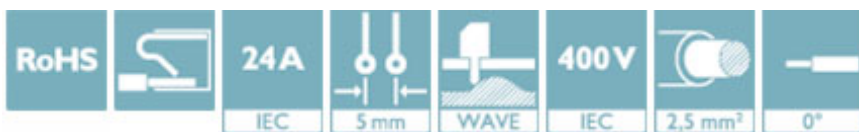
PCB terminal block, nominal current: 24 A, nom. voltage: 400 V, pitch: 5 mm, number of positions: 2, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: black




The figure shows a 10-position version of the product

Why buy this product

- Time saving push-in connection, tools not required
- Defined contact force ensures that contact remains stable over the long term
- Clamping space opened by means of fixed screwdriver enables convenient conductor connection
- Operation and conductor connection from one direction enable integration into front of device
- Two solder pins reduce the mechanical strain on the soldering spots



Key Commercial Data

Packing unit	100 STK
GTIN	 4 046356 735209
GTIN	4046356735209

Technical data

Item properties

Brief article description	PCB terminal block
Range of articles	SPT 2,5/..-H
Pitch	5 mm
Number of positions	2
Connection method	Push-in spring connection
Mounting type	Wave soldering
Pin layout	Linear double pinning
Number of levels	1

Electrical parameters

Rated current	24 A
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Technical data

Electrical parameters

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

Connection capacity

Conductor cross section solid	0.2 mm ² ... 4 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section AWG / kcmil	24 ... 12
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² ... 2.5 mm ² (Stripping length 8 mm)
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² ... 1.5 mm ² (Stripping length 8 mm)
Stripping length	10 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	black (9005)
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Dimensions for the product

Length [l]	14.4 mm
Width [w]	11.4 mm
Height [h]	16 mm
Pitch	5 mm
Height (without solder pin)	13.5 mm
Solder pin [P]	2.5 mm
Pin dimensions	0.8 x 0.8 mm
Dimension a	5 mm
Pin spacing	8.2 mm

Dimensions for PCB design

Hole diameter	1.1 mm
Pin spacing	8.2 mm

Packaging information

Type of packaging	packed in cardboard
Pieces per package	100
Denomination packing units	Pcs.

Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 70 °C
Ambient temperature (assembly)	-5 °C ... 100 °C

PCB terminal block - SPT 2,5/ 2-H-5,0 BK - 1704736

Technical data

Ambient conditions

Ambient temperature (operation)	-40 °C
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Termination and connection method

Connection test	IEC 60998-2-2:2002-12
Test result	Test passed

Pull-out test

Pull-out test	Test passed IEC 60998-2-2:2002-12 1 min During testing, ensure that no conductor slips out of the terminal block or breaks in the vicinity of the terminal point.
	IEC 60998-2-2:2002-12
	Test passed
Conductor cross section / conductor type / tensile force	0.2 mm ² solid 10 N >
	0.2 mm ² flexible 10 N >
	4 mm ² solid 60 N >
	2.5 mm ² flexible 50 N >

Mechanical tests according to standard

Test specification	IEC 60998-2-2 (in parts)
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Electrical tests

Rated current	24 A
Rated insulation voltage (III/2)	400 V
Rated surge voltage (III/2)	4 kV

Air clearances and creepage distances

Insulating material group	I
Comparative tracking index (IEC 60112:2003-01)	CTI 600
Voltage	250 V
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
Minimum clearance - inhomogeneous field (III/3)	3 mm
Minimum clearance - inhomogeneous field (III/2)	3 mm
Minimum clearance - inhomogeneous field (II/2)	3 mm
Minimum creepage distance value (III/3)	3.2 mm
Minimum creepage distance value (III/2)	3 mm
Minimum creepage distance value (II/2)	3.2 mm

Current carrying capacity / derating curves

Specification	IEC 60998-2-2 (in parts)
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PCB terminal block - SPT 2,5/ 2-H-5,0 BK - 1704736

Technical data

Vibration test

Resistance to ageing, to humidity conditions, to ingress of solid objects and to harmful ingress of water	Test passed IEC 60998-1:2002-12 168 h/100°C 48 h/30 °C/92 %
Test result	Test passed
Test specification	IEC 60998-1:2002-12
Dry heat	168 h/100°C
Humid heat	48 h/30 °C/92 %

Resistance to ageing, humidity and penetration of solids

Test result	Test passed
Test specification	IEC 60998-1:2002-12
Dry heat	168 h/100°C
Humid heat	48 h/30 °C/92 %

Standards and Regulations

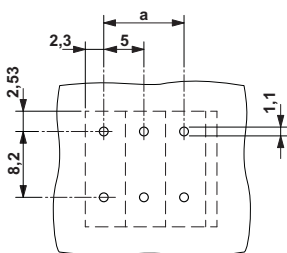
Connection in acc. with standard	EN-VDE
	CUL
Flammability rating according to UL 94	V0

Environmental Product Compliance

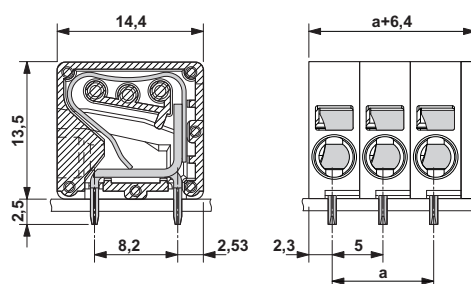
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

Drilling diagram



Dimensional drawing



Approvals

Approvals

Approvals


SEV / CCA / IECCEB Scheme / EAC / cULus Recognized

Ex Approvals


PCB terminal block - SPT 2,5/ 2-H-5,0 BK - 1704736

Approvals


Approval details

SEV		https://www.electrosuisse.ch/en/meta/shop/product-certificates.html	IK-3150
mm ² /AWG/kcmil	2.5		
Nominal current IN	24 A		
Nominal voltage UN	250 V		

CCA			IK-2956
mm ² /AWG/kcmil	2.5		
Nominal current IN	24 A		
Nominal voltage UN	250 V		

IECEE CB Scheme		http://www.iecee.org/	CH-7429
mm ² /AWG/kcmil	2.5		
Nominal current IN	24 A		
Nominal voltage UN	250 V		

EAC		B.01742	
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cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E60425-20061129
		B	D
mm ² /AWG/kcmil	24-12	24-12	
Nominal current IN	20 A	10 A	
Nominal voltage UN	300 V	300 V	

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