

PCB terminal block - SPT 16/ 2-H-10,0-ZB - 1735781

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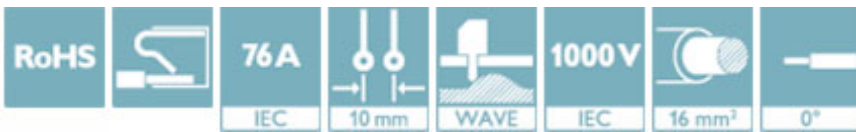


PCB terminal block, nominal current: 76 A, nom. voltage: 1000 V, pitch: 10 mm, number of positions: 2, connection method: Push-in spring connection, mounting: Wave soldering, color: green


The figure shows the 5-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
- Unrestricted 600-V-UL approval thanks to compact zig-zag pinning
- Operation and conductor connection from one direction enable integration into front of device



Key Commercial Data

Packing unit	50 STK
GTIN	 4 046356 179423
GTIN	4046356179423

Technical data

Item properties

Brief article description	PCB terminal block
Range of articles	SPT 16/..-H
Pitch	10 mm
Number of positions	2
Connection method	Push-in spring connection
Mounting type	Wave soldering
Pin layout	Zigzag pinning W
Number of levels	1

Electrical parameters

Rated current	76 A
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Technical data

Electrical parameters

Rated insulation voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV

Connection capacity

Conductor cross section solid	0.75 mm ² ... 16 mm ²
Conductor cross section flexible	0.75 mm ² ... 16 mm ²
Conductor cross section AWG / kcmil	20 ... 4
Conductor cross section flexible, with ferrule without plastic sleeve	0.75 mm ² ... 16 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.75 mm ² ... 10 mm ²
2 conductors with same cross section, stranded, with TWIN ferrules with plastic sleeve	0.75 mm ² ... 4 mm ²

Material data - contact

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

Housing color	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

Dimensions for the product

Length [l]	29 mm
Width [w]	21.8 mm
Height [h]	34 mm
Pitch	10 mm
Height (without solder pin)	30 mm
Solder pin [P]	4 mm
Pin dimensions	1.2 x 1 mm
Dimension a	10 mm
Pin spacing	15 mm

Dimensions for PCB design

Hole diameter	1.7 mm
Pin spacing	15 mm

Packaging information

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Technical data

Packaging information

Type of packaging	packed in cardboard
Pieces per package	50
Denomination packing units	Pcs.

Ambient conditions

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

Termination and connection method

Pull-out test

Conductor cross section / conductor type / tensile force	0.75 mm ² / solid / > 30 N
	0.75 mm ² flexible 30 N > 0.75 mm ² / flexible / > 30 N
	16 mm ² solid 100 N > 16 mm ² / solid / > 100 N
	16 mm ² flexible 100 N > 16 mm ² / flexible / > 100 N

Electrical tests

Rated current	76 A
Rated insulation voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV

Air clearances and creepage distances

Insulating material group	I
Voltage	1000 V
Rated insulation voltage (III/3)	1000 V
Rated insulation voltage (III/2)	1000 V
Rated insulation voltage (II/2)	1000 V
Rated surge voltage (III/3)	8 kV
Rated surge voltage (III/2)	8 kV
Rated surge voltage (II/2)	6 kV

Current carrying capacity / derating curves

Standards and Regulations

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

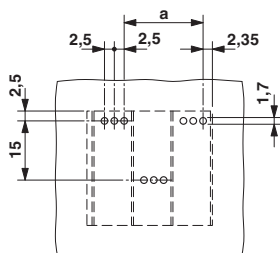
Environmental Product Compliance

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

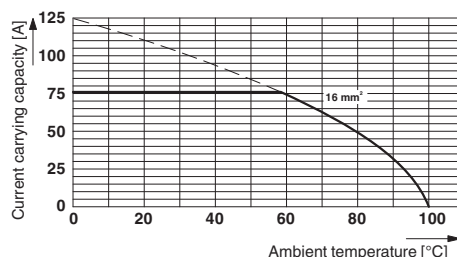
Drawings

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Drilling diagram

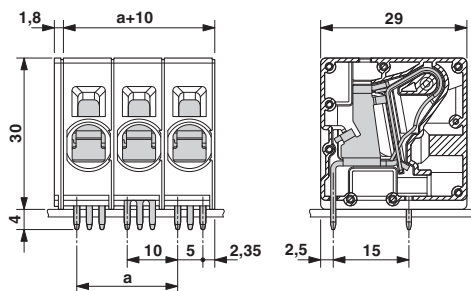


Diagram



Type: SPT 16/...-H-10,0-ZB
 Test based on DIN EN 60512-5-2:2003-01
 Reduction factor = 1
 Number of positions: 5

Dimensional drawing



Approvals

Approvals

Approvals

SEV / IECCEB CB Scheme / EAC / cULus Recognized

Ex Approvals

Approval details

SEV		https://www.electrosuisse.ch/en/meta/shop/product-certificates.html	IK-3431
Nominal voltage UN	1000 V		
Nominal current IN	76 A		
mm²/AWG/kcmil	16		

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Approvals

IECEE CB Scheme	CB scheme	http://www.iecee.org/	CH-8077
Nominal voltage UN		1000 V	
Nominal current IN		76 A	

EAC	EAC	B.01742
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cULus Recognized	cULus	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E60425-20061129
	B	C	
Nominal voltage UN	600 V	600 V	
Nominal current IN	66 A	66 A	
mm ² /AWG/kcmil	20-4	20-4	

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