

https://www.phoenixcontact.com/us/products/1819192



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PCB terminal block, nominal current: 76 A, rated voltage (III/2): 1000 V, nominal cross section: 16 mm², number of potentials: 1, number of rows: 1, number of positions per row: 1, product range: SPTA 16/, pitch: 10 mm, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 60 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 4.1 mm, number of solder pins per potential: 3, type of packaging: packed in cardboard

Your advantages

- · 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
- · Angled connection enables multi-row arrangement on the PCB

Commercial data

Item number	1819192
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA15
Product key	AAOBCD
Catalog page	Page 27 (NTK-2014)
GTIN	4046356788229
Weight per piece (including packing)	11.398 g
Weight per piece (excluding packing)	11 g
Customs tariff number	85369010
Country of origin	IN



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Technical data

Product properties

Product type	Printed circuit board terminal
Product family	SPTA 16/
Product line	COMBICON Terminals XL
Number of positions	1
Pitch	10 mm
Number of connections	1
Number of rows	1
Number of potentials	1
Pin layout	Linear pinning
Solder pins per potential	3

Electrical properties

Nominal current I _N	76 A
Nominal voltage U _N	1000 V
Degree of pollution	3
Rated voltage (III/3)	1000 V
Rated surge voltage (III/3)	8 kV
Rated voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV
Rated voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV

Connection data

Connection technology	
Nominal cross section	16 mm ²
Conductor connection	
Connection method	Push-in spring connection
Conductor cross section rigid	0.75 mm ² 10 mm ² (Conductor connection with open terminal point)
	2.5 mm ² 10 mm ² (Push-in connection)
Single-conductor/terminal point multi-stranded	0.75 mm ² 16 mm ²
Conductor cross section flexible	0.75 mm² 16 mm²
Conductor cross section AWG	18 4
Conductor cross section flexible, with ferrule without plastic sleeve	0.75 mm² 16 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.75 mm² 10 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.75 mm² 4 mm²
Stripping length	18 mm

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Mounting

Mounting type	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	Tin-plated
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

5	
Color (Housing)	green (6021)
Insulating material	PA
Insulating material group	1
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

Notes

Notes on operation	The single-position PCB terminal block can be used for voltages up to 1500 V (DC) and 1000 V (AC). The relevant device
	standard and the appropriate required air clearances and creepage distances should be observed following installation

Dimensions

Dimensional drawing	h Pt
Pitch	10 mm
Width [w]	10 mm
Height [h]	42.2 mm
Length [I]	32.7 mm
Installed height	38.1 mm
Solder pin length [P]	4.1 mm
Pin dimensions	1.2 x 1 mm



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PCB design	
Pin spacing	15 mm
Hole diameter	1.7 mm
echanical 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
Repeated connection and disconnection	
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	0.75 mm² / solid / > 30 N
setpoint/actual value	16 mm² / stranded / > 100 N
	0.75 mm² / flexible / > 30 N
	16 mm² / flexible / > 100 N

Electrical tests

Temperature-rise test	
Specification	IEC 60947-7-4:2013-08
Requirement temperature-rise test	The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper limiting temperature.
Short-time withstand current	
Specification	IEC 60947-7-4:2013-08
Insulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ
Air clearances and creepage distances	
Specification	IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09
Insulating material group	I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	1000 V
Rated surge voltage (III/3)	8 kV
minimum clearance value - non-homogenous field (III/3)	8 mm
minimum creepage distance (III/3)	12.5 mm



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Rated insulation voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV
minimum clearance value - non-homogenous field (III/2)	8 mm
minimum creepage distance (III/2)	8 mm
Rated insulation voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV
minimum clearance value - non-homogenous field (II/2)	5.5 mm
minimum creepage distance (II/2)	5.5 mm

Environmental and real-life conditions

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
low-wire test	
Specification	IEC 60695-2-10:2000-10
Temperature	850 °C
Time of exposure	5 s
ging	
Specification	IEC 60947-7-4:2013-08
mbient conditions	
Ambient temperature (operation)	-40 °C 100 °C (Depending on the current carrying capacity/derating curve)
Ambient temperature (storage/transport)	-40 °C 70 °C
Relative humidity (storage/transport)	30 % 70 %
	-5 °C 100 °C

Type of packaging

packed in cardboard

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