

1862291

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PCB terminal block, nominal current: 16 A, rated voltage (III/2): 320 V, nominal cross section: 1.5 mm², number of potentials: 4, number of rows: 1, number of positions per row: 4, product range: SPTAF 1/..-IL, pitch: 5 mm, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 45 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 2.6 mm, number of solder pins per potential: 2, type of packaging: packed in cardboard. Suitable for CAT5

Your advantages

- · Time saving push-in connection, tools not required
- Defined contact force ensures that contact remains stable over the long term
- · Intuitive operation due to color-coded actuating push button
- Small component size for applications where space is at a premium
- · Quick and convenient testing using integrated test option

Commercial data

Item number	1862291
Packing unit	80 pc
Minimum order quantity	80 pc
Note	Made to order (non-returnable)
Sales key	AA12
Product key	AALBGK
GTIN	4055626137612
Weight per piece (including packing)	2.629 g
Weight per piece (excluding packing)	2.6 g
Customs tariff number	85369010
Country of origin	PL



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Technical data

Product properties

Product line	COMBICON Terminals S
Product type	Printed circuit board terminal
Product family	SPTAF 1/IL
Number of positions	4
Pitch	5 mm
Number of connections	4
Number of rows	1
Number of potentials	4
Pin layout	Linear pinning
Solder pins per potential	2

Electrical properties

Nominal current I _N	16 A
Nominal voltage U _N	320 V
Degree of pollution	3
Rated voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
Rated voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

Connection data

Connection technology

6,7		
Nominal cross section	1.5 mm²	

Conductor connection

Connection method	Push-in spring connection
Conductor cross section rigid	0.2 mm ² 1.5 mm ² (When connecting and possibly adjusting a solid conductor of 1.5 mm ² , the mechanical lateral forces, which can affect the terminal block, have to be absorbed by lateral support.)
	0.34 mm ² 1.5 mm ² (Push-in connection)
Conductor cross section flexible	0.2 mm² 1.5 mm²
Conductor cross section AWG	24 16
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² 0.75 mm ² (Conductor connection with open terminal point)
	0.5 mm ² 0.75 mm ² (Push-in connection)
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² 0.75 mm ² (Conductor connection with open terminal point)
	0.5 mm ² 0.75 mm ² (Push-in connection)
Stripping length	8 mm



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Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning
Processing notes	
Process	Wave soldering

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 (2 - 4 µm Sn)
Metal surface soldering area (top layer)	Tin (2 - 4 µm Sn)

Material data - housing

Color (Housing)	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

Material data - actuating element

Color (Actuating element)	orange (2003)
Insulating material	PBT
Insulating material group	Illa
CTI according to IEC 60112	275
Flammability rating according to UL 94	V0

Notes

General	The item is qualified for CAT5 Ethernet applications. For this
	reason, it is suited for use in IoT devices.

Dimensions

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Dimensional drawing	P



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Pitch	5 mm
Width [w]	20 mm
Height [h]	10.6 mm
Length [I]	11 mm
Installed height	8 mm
Solder pin length [P]	2.6 mm
Pin dimensions	0.75 x 0.3 mm
PCB design	
Pin spacing	5 mm
Hole diameter	1.1 mm

Mechanical tests

Test for	conductor	damage	and	slac	kenina

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 setpoint/actual value	0.2 mm² / solid / > 10 N
	0.25 mm² / flexible / > 10 N
	1.5 mm² / solid / > 40 N
	1.5 mm² / flexible / > 40 N

Electrical tests

Temperature-rise test

Rated insulation voltage (III/3)

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
Insulating material group	I
Comparative tracking index (IEC 60112)	CTI 600

250 V



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Rated surge voltage (III/3)	4 kV
minimum clearance value - non-homogenous field (III/3)	3 mm
minimum creepage distance (III/3)	3.2 mm
Rated insulation voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
minimum clearance value - non-homogenous field (III/2)	3 mm
minimum creepage distance (III/2)	3 mm
Rated insulation voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV
minimum clearance value - non-homogenous field (II/2)	3 mm
minimum creepage distance (II/2)	3.2 mm

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)
Sweep speed	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h

Glow-wire test

Specification	IEC 60695-2-10:2013-04
Temperature	850 °C
Time of exposure	5 s

Aging

Specification	IEC 60947-7-4:2013-08
Ambient conditions	
Ambient temperature (operation)	-40 °C 100 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C 70 °C

30 % ... 70 %

-5 °C ... 100 °C

Packaging specifications

Relative humidity (storage/transport)

Ambient temperature (assembly)

0 0 1		
Type of packaging	packed in cardboard	



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27460101
ECLASS-12.0	27460101
ECLASS-13.0	27460101
ETIM	
ETIM 9.0	EC002643
UNSPSC	

39121400



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Environmental product compliance

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

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