

1725003

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PCB terminal block, nominal current: 17.5 A, rated voltage (III/2): 240 V, nominal cross section: 1.5 mm², number of potentials: 9, number of rows: 1, number of positions per row: 9, product range: PTDA 1,5/, pitch: 3.5 mm, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 45 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm, number of solder pins per potential: 2, 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
- Potentials can be easily looped through ideal for BUS applications
- · Quick and convenient testing using integrated test option
- · Rounded type for individual device design
- Two solder pins reduce the mechanical strain on the soldering spots

#### Commercial data

Item number	1725003
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA12
Product key	AALBBA
Catalog page	Page 407 (C-1-2013)
GTIN	4046356129022
Weight per piece (including packing)	10.394 g
Weight per piece (excluding packing)	10.31 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	PTDA 1,5/
Number of positions	9
Pitch	3.5 mm
Number of connections	18
Number of rows	1
Number of potentials	9
Pin layout	Linear pinning
Solder pins per potential	2

## Electrical properties

Nominal current I <sub>N</sub>	17.5 A
Nominal voltage U <sub>N</sub>	240 V
Degree of pollution	3
Rated voltage (III/3)	200 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	240 V
Rated surge voltage (III/2)	2.5 kV
Rated voltage (II/2)	400 V
Rated surge voltage (II/2)	2.5 kV

## Connection data

## Connection technology

Nominal cross section	1.5 mm²
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#### Conductor connection

Connection method	Push-in spring connection
Conductor cross section rigid	0.2 mm² 1.5 mm²
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	0.5 mm <sup>2</sup> 1.5 mm <sup>2</sup>
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.5 mm² 0.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm <sup>2</sup> 0.5 mm <sup>2</sup>
Stripping length	10 mm

## Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning



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## 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 (4 - 8 µm Sn)
Metal surface soldering area (top layer)	Tin (4 - 8 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

## Dimensions

Dimensional drawing	h h
Pitch	3.5 mm
Width [w]	32.9 mm
Height [h]	19.5 mm
Length [I]	16 mm
Installed height	16 mm
Solder pin length [P]	3.5 mm
Pin dimensions	1 x 0.4 mm
PCB design	
Pin spacing	3.5 mm
Hole diameter	1.3 mm

#### Hole diameter

Mechanical tests

## Connection test

Specification	IEC 60998-2-2:2002-12
Result	Test passed



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Test for conductor damage and slackening

Rated surge voltage (III/2)

minimum creepage distance (III/2)

minimum creepage distance (II/2)

Rated insulation voltage (II/2)

Rated surge voltage (II/2)

minimum clearance value - non-homogenous field (III/2)

minimum clearance value - non-homogenous field (II/2)

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Specification	IEC 60998-2-2:2002-12
Result	Test passed
Pull-out test	
Specification	IEC 60998-2-2:2002-12
Conductor cross section/conductor type/tractive force setpoint/actual value	0.2 mm² / solid / > 10 N
	0.2 mm² / flexible / > 10 N
	1.5 mm² / solid / > 40 N
	1.5 mm² / flexible / > 40 N
Flexion test	
Specification	IEC 60998-2-2:2002-12
Result	Test passed
Insulation holder for crimp connections	
Result	Test passed
Temperature-rise test  Specification  Requirement temperature-rise test	IEC 60947-7-4:2019-01  The sum of ambient temperature and temperature rise of the
	PCB terminal block shall not exceed the upper limiting temperature.
Insulation resistance	
Specification	IEC 60998-1:2002-12
Insulation resistance, neighboring positions	> 5 MΩ
Air clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	200 V
Rated surge voltage (III/3)	2.5 kV
minimum clearance value - non-homogenous field (III/3)	1.5 mm
minimum creepage distance (III/3)	2.5 mm
Rated insulation voltage (III/2)	240 V

2.5 kV

1.5 mm

1.25 mm

400 V

2.5 kV

1.5 mm

2 mm



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### Environmental and real-life conditions

ecification	IEC 60068-2-6:1995-03
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
w-wire test Specification	IEC 60998-1:2002-12
Temperature	850 °C
Time of exposure	5 s
bient conditions	
Ambient temperature (operation)	-40 °C 105 °C (dependent on the derating curve)

#### Packaging specifications

Relative humidity (storage/transport)

Ambient temperature (assembly)

	.g op ooout.o	
Type	of packaging	packed in cardboard

30 % ... 70 %

-5 °C ... 100 °C



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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			

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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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