

https://www.phoenixcontact.com/us/products/1707344



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PCB terminal block, nominal current: 12 A, rated voltage (III/2): 200 V, nominal cross section: 1 mm<sup>2</sup>, number of potentials: 1, number of rows: 1, number of positions per row: 1, product range: ZFKDS(A) 1-V, pitch: 3.81 mm, connection method: Spring-cage connection, mounting: Wave soldering, conductor/PCB connection direction: 90 °, 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. Single module for the custom grouping of different numbers of positions. An end terminal block is also needed to terminate the block (see accessories). Blocked items with different numbers of positions are also available.

# Your advantages

- · Defined contact force ensures that contact remains stable over the long term
- · Clamping space opened by means of fixed screwdriver enables convenient conductor connection
- · Vertical connection enables multi-row arrangement on the PCB
- · The latching on the side enables various numbers of positions to be combined
- · Two solder pins reduce the mechanical strain on the soldering spots

## Commercial data

Item number	1707344
Packing unit	50 рс
Minimum order quantity	50 рс
Sales key	AA12
Product key	AALMAC
Catalog page	Page 41 (CC-2005)
GTIN	4017918136840
Weight per piece (including packing)	1.242 g
Weight per piece (excluding packing)	1.242 g
Customs tariff number	85369010
Country of origin	PL



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# Technical data

### Product properties

Туре	PC terminal block can be aligned
Product line	COMBICON Terminals S
Product type	Printed circuit board terminal
Product family	ZFKDS(A) 1-V
Number of positions	1
Pitch	3.81 mm
Number of connections	1
Number of rows	1
Number of potentials	1
Pin layout	Linear pinning
Solder pins per potential	2

### **Electrical properties**

Nominal current I <sub>N</sub>	12 A
Nominal voltage U <sub>N</sub>	200 V
Degree of pollution	3
Rated voltage (III/3)	200 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	200 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

Туре	PC terminal block can be aligned
Nominal cross section	1 mm²
conductor connection	
Connection method	Spring-cage connection
Conductor cross section rigid	0.14 mm <sup>2</sup> 1.5 mm <sup>2</sup>
Conductor cross section flexible	0.14 mm² 1 mm²
Conductor cross section AWG	26 16
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 0.5 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 0.5 mm²
Stripping length	7.5 mm

## Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning

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## Material specifications

Contact material Cu alloy   Surface characteristics hot-dip tin-plate   Metal surface terminal point (top layer) Tin (10 - 16 µm	
(etal surface terminal point (top laver) Tin (10 - 16 um	
	Sn)
Metal surface soldering area (top layer) Tin (10 - 16 μm	Sn)

#### Material data - housing

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

#### Material data - actuating element

Golor (Actualing element) green (0021)	Color (Actuating element)	green (6021)
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#### Dimensions

Dimensional drawing	h P
Pitch	3.81 mm
Width [w]	3.97 mm
Height [h]	18.75 mm
Length [I]	15.9 mm
Installed height	15.25 mm
Solder pin length [P]	3.5 mm
Pin dimensions	0.8 x 0.8 mm
PCB design	
Hole diameter	1.2 mm

### Electrical tests

Air clearances and creepage distances	
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Specification	IEC 60664-1:2007-04
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Insulating material group	1
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)	200 V
Rated surge voltage (III/2)	2.5 kV
minimum clearance value - non-homogenous field (III/2)	1.5 mm
minimum creepage distance (III/2)	1.5 mm
Rated insulation voltage (II/2)	400 V
Rated surge voltage (II/2)	2.5 kV
minimum clearance value - non-homogenous field (II/2)	1.5 mm
minimum creepage distance (II/2)	2 mm

## Packaging specifications

Type of packaging

packed in cardboard



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# Classifications

### ECLASS

ECLASS-12.0     27460101       ECLASS-13.0     27460101	ECLASS-11.0	27460101
ECLASS-13.0 27460101	ECLASS-12.0	27460101
	ECLASS-13.0	27460101

## ETIM

	ETIM 9.0	EC002643	
UNSPSC			
	UNSPSC 21.0	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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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com