1932876

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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: 12, number of rows: 1, number of positions per row: 12, product range: ZFKDS(A) 1, pitch: 3.81 mm, connection method: Spring-cage 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

- · 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
- · 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	1932876
Packing unit	50 рс
Minimum order quantity	1 pc
Product key	AALMAA
GTIN	4017918880101
Weight per piece (including packing)	10.839 g
Weight per piece (excluding packing)	10.8 g
Customs tariff number	85369010
Country of origin	PL



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## Technical data

### **Product properties**

Product type	Printed circuit board terminal
Product family	ZFKDS(A) 1
Product line	COMBICON Terminals S
Туре	PC terminal block can be aligned
Number of positions	12
Pitch	3.81 mm
Number of connections	12
Number of rows	1
Number of potentials	12
Pin layout	Linear pinning
Solder pins per potential	2
Data management status	
Article revision	00
ctrical properties	
Nominal current I <sub>N</sub>	12 A
Nominal voltage LI	200 \/

Nominal voltage U <sub>N</sub>	200 V
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

Connection technology	
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 mm <sup>2</sup> 0.5 mm <sup>2</sup>
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 0.5 mm²
Stripping length	7.5 mm

Mounting

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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	hot-dip 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

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

green (6021)

#### Material data - actuating element

Color (Actuating element)

### Dimensions

Dimensional drawing	h P
Pitch	3.81 mm
Width [w]	48.76 mm
Height [h]	18.5 mm
Length [I]	16.9 mm
Installed height	15 mm
Solder pin length [P]	3.5 mm
Pin dimensions	0.7 x 0.8 mm
PCB design	
Hole diameter	1.2 mm

Electrical tests

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Air clearances and creepage distances	
Specification	IEC 60664-1:2007-04
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

#### Environmental and real-life conditions

Ambient 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 %
Ambient temperature (assembly)	-5 °C 100 °C

### Packaging specifications

Type of packaging

packed in cardboard



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## Approvals

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CULus Recogni Approval ID: E60425				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Use group B				
	250 V	10 A	26 - 16	-
Use group D				
	300 V	10 A	26 - 16	-

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## Classifications

### ECLASS

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

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions		
China RoHS			
Environment friendly use period (EFUP)	EFUP-E		
	No hazardous substances above the limits		
EU REACH SVHC			
REACH candidate substance (CAS No.)	No substance above 0.1 wt%		

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