

1993815

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Printed circuit board terminal, nominal current: 12 A, rated voltage (III/2): 200 V, nominal cross section: 1 mm², number of potentials: 18, number of rows: 1, number of positions per row: 18, 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

### 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	1993815
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA12
Product key	AALMAC
GTIN	4017918982706
Weight per piece (including packing)	20.193 g
Weight per piece (excluding packing)	19.387 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-V
Product line	COMBICON Terminals S
Туре	PC terminal block can be aligned
Number of positions	18
Pitch	3.81 mm
Number of connections	18
Number of rows	1
Number of potentials	18
Pin layout	Linear pinning
Solder pins per potential	2

#### Electrical properties

#### Properties

Nominal current I <sub>N</sub>	12 A
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	
Solidación connection	
Connection method	Spring-cage connection
Conductor cross section rigid	0.14 mm² 1.5 mm²
Conductor cross section flexible	0.14 mm² 1 mm²
Conductor cross section AWG	26 16

Conductor cross section flexible, with ferrule without plastic	0.25 mm <sup>2</sup> 0.5 mm <sup>2</sup>
sleeve	

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



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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	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)	green (6021)
Dimensions	
Dimensional drawing	
Difficitional drawing	h P

	p p
Pitch	3.81 mm
Width [w]	71.62 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

1.2 mm

#### Electrical tests

Hole diameter

Air clearances and creepage distances |



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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)	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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## **Approvals**

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c <b>911</b> us	cULus Recognized Approval ID: E60425-19941111				
		Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
В					
		250 V	10 A	26 - 12	-
D					
		300 V	10 A	26 - 12	-



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## Classifications

UNSPSC 21.0

#### **ECLASS**

	ECLASS-13.0	27460101			
	ECLASS-15.0	27460101			
ETIM					
	ETIM 9.0	EC002643			
UNSPSC					

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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%
EF3.0 Climate Change	
CO2e kg	0.187 kg CO2e

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