1705003

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PCB terminal block, nominal current: 12 A, rated voltage (III/2): 200 V, nominal cross section: 1 mm², number of potentials: 1, number of rows: 1, number of positions per row: 1, product range: ZFKDS(A) 1-W, 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. 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
- · Can be operated without tools by means of color-coded actuating lever
- · 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	1705003
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA12
Product key	AALMAF
Catalog page	Page 129 (C-1-2013)
GTIN	4017918136222
Weight per piece (including packing)	1.097 g
Weight per piece (excluding packing)	1.086 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-W
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 _N	12 A
Nominal voltage U _N	200 V
Degree of pollution	3
Rated voltage (III/3)	160 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 mm ²
conductor connection	
Connection method	Spring-cage connection
Conductor cross section rigid	0.14 mm ² 1.5 mm ²
Conductor cross section flexible	0.14 mm ² 1 mm ²
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 mm ² 0.5 mm ²
Stripping length	7.5 mm

Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning

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Material specifications

Material data - housing

Contact materialCu alloySurface characteristicshot-dip tin-platedMetal surface terminal point (top layer)Tin (10 - 16 µm Sn)Metal surface soldering area (top layer)Tin (10 - 16 µm Sn)	Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
Metal surface terminal point (top layer) Tin (10 - 16 µm Sn)	Contact material	Cu alloy
	Surface characteristics	hot-dip tin-plated
Metal surface soldering area (top layer) Tin (10 - 16 μm Sn)	Metal surface terminal point (top layer)	Tin (10 - 16 μm Sn)
	Metal surface soldering area (top layer)	Tin (10 - 16 μm Sn)

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

Color (Actuating element) green (6021)

Dimensions

Pitch3.81 mmWidth [w]3.81 mmHeight [h]19.5 mmLength [I]17.5 mmInstalled height16 mmSolder pin length [P]3.5 mmPin dimensions0.7 x 1 mm	Dimensional drawing	h P
Height [h] 19.5 mm Length [I] 17.5 mm Installed height 16 mm Solder pin length [P] 3.5 mm Pin dimensions 0.7 x 1 mm	Pitch	3.81 mm
Length [I]17.5 mmInstalled height16 mmSolder pin length [P]3.5 mmPin dimensions0.7 x 1 mm	Width [w]	3.81 mm
Installed height16 mmSolder pin length [P]3.5 mmPin dimensions0.7 x 1 mm	Height [h]	19.5 mm
Solder pin length [P]3.5 mmPin dimensions0.7 x 1 mm	Length [I]	17.5 mm
Pin dimensions 0.7 x 1 mm	Installed height	16 mm
	Solder pin length [P]	3.5 mm
PCB design	Pin dimensions	0.7 x 1 mm
	PCB design	
Hole diameter 1.2 mm	Hole diameter	1.2 mm

Electrical tests

Air	clearances	and	creenage	distances	ſ
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Specification	EC 60664-1:2007-04
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Insulating material group	1
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	160 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 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 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



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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		
UN	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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