

1704981

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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: 1, number of rows: 1, number of positions per row: 1, 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. End terminal block for terminating custom-grouped blocks.

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	1704981
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA12
Product key	AALMAA
GTIN	4017918144890
Weight per piece (including packing)	1.33 g
Weight per piece (excluding packing)	1.316 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	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

Properties

Nominal current I _N	12 A
Nominal voltage U _N	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

Type PC terminal block can be aligned	
Nominal cross section	1 mm²
Conductor connection	
Connection method	Spring-cage 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 sleeve	0.25 mm ² 0.5 mm ²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm² 0.5 mm²

Mounting

Stripping length

Mounting type	Wave soldering

7.5 mm



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Pin layout	Linear pinning	
terial 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	
laterial data – actuating element		
Color (Actuating element)	green (6021)	
nensions		
Dimensional drawing	h p4	
Pitch	3.81 mm	
Width [w]	6.85 mm	
Height [h]	17.7 mm	
Length [I]	16.9 mm	

14.2 mm

3.5 mm

1.2 mm

0.7 x 0.8 mm

Electrical tests

PCB design

Installed height

Pin dimensions

Hole diameter

Solder pin length [P]

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

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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e 911 us	cULus Recognized Approval ID: E60425-19941111				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
В					
		250 V	10 A	26 - 12	-



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-13.0	27460101
	ECLASS-15.0	27460101
ET	TIM	
	ETIM 9.0	EC002643
UN	ISPSC	

39121400



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Environmental product compliance

EU RoHS

Yes, No exemptions
EFUP-E
No hazardous substances above the limits
No substance above 0.1 wt%

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