

1726121

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PCB terminal block, nominal current: 13.5 A, rated voltage (III/2): 400 V, nominal cross section: 1.5 mm², number of potentials: 10, number of rows: 2, number of positions per row: 5, product range: MKKDSN 1,5, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm, number of solder pins per potential: 1, type of packaging: packed in cardboard. The article can be aligned to create different nos. of positions!

Your advantages

- · Well-known connection principle allows worldwide use
- · Low temperature rise, thanks to maximum contact force
- · Allows connection of two conductors
- · Extremely small design for the respective conductor cross section
- · Conductor connection on several levels enables higher contact density
- The latching on the side enables various numbers of positions to be combined

Commercial data

Item number	1726121
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA12
Product key	AALFJK
Catalog page	Page 93 (C-1-2013)
GTIN	4017918025397
Weight per piece (including packing)	11.524 g
Weight per piece (excluding packing)	11.5 g
Customs tariff number	85369010
Country of origin	CN



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Technical data

Product properties

Product type	Printed circuit board terminal
Product family	MKKDSN 1,5
Product line	COMBICON Terminals S
Туре	PC terminal block can be aligned
Number of positions	5
Pitch	5 mm
Number of connections	10
Number of rows	2
Number of potentials	10
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Nominal current I _N	13.5 A
Nominal voltage U _N	400 V
Degree of pollution	3
Rated voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	400 V
Rated surge voltage (III/2)	4 kV
Rated voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

Connection data

Connection technology

Туре	PC terminal block can be aligned
Nominal cross section	1.5 mm ²

Conductor connection

Connection method	Screw connection with tension sleeve
Conductor cross section rigid	0.14 mm² 1.5 mm²
Conductor cross section flexible	0.14 mm² 1.5 mm²
Conductor cross section AWG	26 16
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 1 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 1.5 mm²
2 conductors with same cross section, solid	0.14 mm² 0.75 mm²
2 conductors with same cross section, flexible	0.14 mm² 0.75 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² 0.5 mm²



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2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	$0.5~\text{mm}^2\ldots 1~\text{mm}^2$ (1st level: $0.5~\text{mm}^2\ldots 1~\text{mm}^2$ / 2nd level: $0.5~\text{mm}^2)$
Stripping length	6 mm
Tightening torque	0.5 Nm 0.6 Nm

Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning
Drive form screw head	Slotted (L)

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	Tin-plated
Metal surface terminal point (top layer)	Tin (5 - 7 μm Sn)
Metal surface terminal point (middle layer)	Nickel (2 - 3 µm Ni)
Metal surface soldering area (top layer)	Tin (5 - 7 μm Sn)
Metal surface soldering area (middle layer)	Nickel (2 - 3 µm Ni)

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

Dimensions

Dimensional drawing	h h
Pitch	5 mm
Width [w]	27.5 mm
Height [h]	22.6 mm
Length [I]	18.3 mm
Installed height	19.1 mm
Solder pin length [P]	3.5 mm



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Rated insulation voltage (II/2)

Pin dimensions	0.5 x 1 mm
PCB design	
Pin spacing	10 mm
Hole diameter	1.3 mm
echanical tests	
Fest for conductor damage and slackening	
Specification	IEC 60999-1:1999-11
Result	Test passed
Pull-out test	
Specification	IEC 60999-1:1999-11
Conductor cross section/conductor type/tractive force	0.14 mm² / solid / > 10 N
setpoint/actual value	0.14 mm² / flexible / > 10 N
	1.5 mm² / solid / > 40 N
	1.5 mm² / flexible / > 40 N
Specification Requirement temperature-rise test	IEC 60947-7-4:2019-01 The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper limiting
	temperature.
Short-time withstand current	
Short-time withstand current Specification	IEC 60947-7-4:2019-01
	IEC 60947-7-4:2019-01
Specification	IEC 60947-7-4:2019-01 IEC 60512-3-1:2002-02
Specification nsulation resistance	
Specification nsulation resistance Specification	IEC 60512-3-1:2002-02
Specification nsulation resistance Specification Insulation resistance, neighboring positions	IEC 60512-3-1:2002-02
Specification nsulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances	IEC 60512-3-1:2002-02 > 5 MΩ
Specification Insulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances Specification	IEC 60512-3-1:2002-02 > 5 MΩ IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09
Specification nsulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances Specification Insulating material group	IEC 60512-3-1:2002-02 > 5 MΩ IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09 I
Specification Insulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112)	IEC 60512-3-1:2002-02 > 5 MΩ IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09 I CTI 600
Specification Insulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3)	IEC 60512-3-1:2002-02 > 5 MΩ IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09 I CTI 600 250 V
Specification Insulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3)	IEC 60512-3-1:2002-02 > 5 MΩ IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09 I CTI 600 250 V 4 kV
Specification Insulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3)	IEC 60512-3-1:2002-02 > 5 MΩ IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09 I CTI 600 250 V 4 kV 3 mm
Specification Insulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3)	IEC 60512-3-1:2002-02 > 5 MΩ IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09 I CTI 600 250 V 4 kV 3 mm 3.2 mm
Specification Insulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3) Note on connection cross section	IEC 60512-3-1:2002-02 > 5 MΩ IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09 I CTI 600 250 V 4 kV 3 mm 3.2 mm With connected conductor 1.5 mm² (solid).
Specification Insulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3) Note on connection cross section Rated insulation voltage (III/2)	IEC 60512-3-1:2002-02 > 5 MΩ IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09 I CTI 600 250 V 4 kV 3 mm 3.2 mm With connected conductor 1.5 mm² (solid). 400 V

630 V



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Rated surge voltage (II/2)	4 kV
minimum clearance value - non-homogenous field (II/2)	3 mm
minimum creepage distance (II/2)	3.2 mm

Environmental and real-life conditions

Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Acceleration	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h

Glow-wire test

Specification	IEC 60695-2-10:2013-04
Temperature	850 °C
Time of exposure	5 s

Aging

Specification	IEC 60947-7-4:2019-01
Ambient conditions	
Ambient temperature (operation)	-40 °C 105 °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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