1723292

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PCB terminal block, nominal current: 10 A, rated voltage (III/2): 400 V, nominal cross section: 1.5 mm², number of potentials: 9, number of rows: 3, number of positions per row: 3, product range: MK3DSN 1,5, pitch: 5.08 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	1723292
Packing unit	100 рс
Minimum order quantity	100 рс
Sales key	AA12
Product key	AALFJB
Catalog page	Page 93 (C-1-2013)
GTIN	4017918025229
Weight per piece (including packing)	11.7 g
Weight per piece (excluding packing)	11.025 g
Customs tariff number	85369010
Country of origin	IN



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Technical data

Product properties

Product type	Printed circuit board terminal
Product family	MK3DSN 1,5
Product line	COMBICON Terminals S
Туре	PC terminal block can be aligned
Number of positions	3
Pitch	5.08 mm
Number of connections	9
Number of rows	3
Number of potentials	9
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Nominal current I _N	10 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

PC terminal block can be aligned
1.5 mm ²
Screw connection with tension sleeve
0.14 mm ² 1.5 mm ²
0.14 mm ² 1.5 mm ²
26 16
0.25 mm² 1 mm²
0.25 mm ² 1.5 mm ²
0.14 mm ² 0.75 mm ²
0.14 mm² 0.75 mm²
0.25 mm² 0.5 mm²

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2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	$0.5\ mm^2$ $1\ mm^2$ (1st level: $0.5\ mm^2$ $1\ mm^2$ / 2nd and 3rd levels: $0.5\ mm^2)$
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)
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	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

Dimensions

Dimensional drawing	h Pt
Pitch	5.08 mm
Width [w]	17.78 mm
Height [h]	31.7 mm
Length [I]	28.1 mm
Installed height	28.2 mm

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Solder pin length [P]	3.5 mm	
Pin dimensions	0.5 x 1 mm	
PCB design		
Hole diameter	1.3 mm	

Mechanical tests

Test 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 setpoint/actual value	0.14 mm² / solid / > 10 N
	0.14 mm² / flexible / > 10 N
	1.5 mm² / solid / > 40 N
	1.5 mm² / flexible / > 40 N

Electrical tests

Temperature-rise test		
Specification	IEC 60947-7-4:2019-01	
Requirement temperature-rise test	The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper limiting temperature.	
Short-time withstand current		
Specification	IEC 60947-7-4:2019-01	
Insulation resistance		
Specification	IEC 60512-3-1:2002-02	
Insulation resistance, neighboring positions	> 5 MΩ	
Air clearances and creepage distances		
Specification	IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09	
Insulating material group	I	
Comparative tracking index (IEC 60112)	CTI 600	
Rated insulation voltage (III/3)	250 V	
Rated surge voltage (III/3)	4 kV	
minimum clearance value - non-homogenous field (III/3)	3 mm	
minimum creepage distance (III/3)	3.2 mm	
Rated insulation voltage (III/2)	400 V	
Rated surge voltage (III/2)	4 kV	
minimum clearance value - non-homogenous field (III/2)	3 mm	
minimum creepage distance (III/2)	3 mm	
Rated insulation voltage (II/2)	630 V	
Rated surge voltage (II/2)	4 kV	

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	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 10 - 150 - 10 Hz Frequency Sweep speed 1 octave/min 0.35 mm (10 Hz ... 60.1 Hz) Amplitude Sweep speed 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) -40 °C ... 70 °C Ambient temperature (storage/transport) 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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