1714036

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PCB terminal block, nominal current: 24 A, rated voltage (III/2): 400 V, nominal cross section: 2.5 mm², number of potentials: 3, number of rows: 1, number of positions per row: 3, product range: MKDSP 3, 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]: 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
- · Quick and convenient testing using integrated test option
- · Integrated protective guide prevents incorrect insertion of the conductor underneath the tension sleeve
- · The latching on the side enables various numbers of positions to be combined

Commercial data

Item number	1714036
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA13
Product key	AAMFIL
Catalog page	Page 105 (C-1-2013)
GTIN	4017918024017
Weight per piece (including packing)	6.286 g
Weight per piece (excluding packing)	5.903 g
Customs tariff number	85369010
Country of origin	DE

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Technical data

Product properties

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

Electrical properties

Nominal current I _N	24 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	2.5 mm ²
Conductor connection	
Connection method	Screw connection with tension sleeve
Conductor cross section rigid	0.2 mm² 4 mm²
Conductor cross section flexible	0.2 mm ² 2.5 mm ²
Conductor cross section AWG	24 12
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² 2.5 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² 2.5 mm ²
2 conductors with same cross section, solid	0.2 mm ² 1.5 mm ²
2 conductors with same cross section, flexible	0.2 mm ² 1.5 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm ² 0.75 mm ²
2 conductors with the same cross section, flexible, with TWIN	0.5 mm ² 1.5 mm ²

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ferrule with plastic sleeve	
Stripping length	8 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 soldering area (top layer)	Tin (5 - 7 μm Sn)

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

Notes

For safe conductor connection, always adhere to a defined tightening torque. Particularly in the case of PCB terminal blocks with two or three positions, the individual solder pin for each contact point cannot compensate for this. That is why the terminal blocks must be supported during conductor connection (held with one hand, support on the housing).

Dimensions

Pitch

Dimensional drawing

Note on application

5 mm

HŒN



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Width [w]	15 mm
Height [h]	23 mm
Length [I]	12.8 mm
Installed height	18 mm
Solder pin length [P]	5 mm
Pin dimensions	0.9 x 0.9 mm
PCB design	
Hole diameter	1.3 mm
echanical tests	
Test for conductor damage and slackening	
Specification	IEC 60998-2-1:1990-04
Result	Test passed
Pull-out test	
Specification	IEC 60998-2-1:1990-04
Conductor cross section/conductor type/tractive force	0.2 mm ² / solid / > 10 N
setpoint/actual value	0.2 mm ² / flexible / > 10 N
	4 mm² / solid / > 60 N
	2.5 mm ² / flexible / > 50 N
Torque test	
Torque test Specification	IEC 60998-2-1:1990-04
Specification	IEC 60998-2-1:1990-04
	IEC 60998-2-1:1990-04
Specification	IEC 60998-2-1:1990-04
Specification ectrical tests	IEC 60998-2-1:1990-04
Specification ectrical tests Temperature-rise test	
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Specification ectrical tests Temperature-rise test Specification Requirement temperature-rise test Insulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances	IEC 60998-2-1:1990-04 Increase in temperature ≤ 45 K IEC 60998-2-1:1990-04 10 ⁹ Ω
Specification ectrical tests Temperature-rise test Specification Requirement temperature-rise test Insulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances Specification	IEC 60998-2-1:1990-04 Increase in temperature ≤ 45 K IEC 60998-2-1:1990-04
Specification ectrical tests Temperature-rise test Specification Requirement temperature-rise test Insulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances Specification Insulation material group	IEC 60998-2-1:1990-04 Increase in temperature ≤ 45 K IEC 60998-2-1:1990-04 10 ⁹ Ω IEC 60664-1:2007-04 I
Specification ectrical tests Temperature-rise test Specification Requirement temperature-rise test Insulation resistance Specification Insulation resistance, neighboring positions Air clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112)	IEC 60998-2-1:1990-04 Increase in temperature ≤ 45 K IEC 60998-2-1:1990-04 10 ⁹ Ω IEC 60664-1:2007-04 I CTI 600
Specification ectrical tests Temperature-rise test Specification Requirement temperature-rise test 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 60998-2-1:1990-04 Increase in temperature ≤ 45 K IEC 60998-2-1:1990-04 10 ⁹ Ω IEC 60664-1:2007-04 I CTI 600 250 V
Specification ectrical tests Temperature-rise test Specification Requirement temperature-rise test 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 60998-2-1:1990-04 Increase in temperature ≤ 45 K IEC 60998-2-1:1990-04 10 ⁹ Ω IEC 60664-1:2007-04 I CTI 600 250 V 4 kV
Specification ectrical tests Temperature-rise test Specification Requirement temperature-rise test 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 60998-2-1:1990-04 Increase in temperature ≤ 45 K IEC 60998-2-1:1990-04 10 ⁹ Ω IEC 60664-1:2007-04 I CTI 600 250 ∨ 4 k∨ 3 mm
Specification ectrical tests Temperature-rise test Specification Requirement temperature-rise test 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) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3)	IEC 60998-2-1:1990-04 Increase in temperature ≤ 45 K IEC 60998-2-1:1990-04 $10^9 \Omega$ IEC 60664-1:2007-04 I CTI 600 250 V 4 kV 3 mm 3.2 mm
Specification ectrical tests Temperature-rise test Specification Requirement temperature-rise test 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 60998-2-1:1990-04 Increase in temperature ≤ 45 K IEC 60998-2-1:1990-04 10 ⁹ Ω IEC 60664-1:2007-04 I CTI 600 250 V 4 kV 3 mm



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minimum creepage distance (III/2)	3 mm
Rated insulation voltage (II/2)	630 V
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

pecification	IEC 60068-2-6:1995-03
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Sweep speed	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
ow-wire test	
Specification	IEC 60998-2-1:1990-04
Temperature	850 °C
Time of exposure	5 s
bient 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

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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	
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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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com