

1703021

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PCB terminal block, nominal current: 32 A, rated voltage (III/2): 630 V, nominal cross section: 4 mm², number of potentials: 1, number of rows: 1, number of positions per row: 1, product range: FRONT 4-V, pitch: 7.62 mm, connection method: Front screw connection, mounting: Wave soldering, conductor/PCB connection direction: 90 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 5 mm, number of solder pins per potential: 2, 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
- · Operation and conductor connection from one direction enable integration into front of device

Commercial data

Item number	1703021
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA14
Product key	AANFAC
Catalog page	Page 461 (C-1-2013)
GTIN	4017918023041
Weight per piece (including packing)	9.011 g
Weight per piece (excluding packing)	8.5 g
Customs tariff number	85369010
Country of origin	BG



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Technical data

Product properties

Туре	PC terminal block can be aligned
Product line	COMBICON Terminals L
Product type	Printed circuit board terminal
Product family	FRONT 4-V
Number of positions	1
Pitch	7.62 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	32 A
Nominal voltage U _N	630 V
Degree of pollution	3
Rated voltage (III/3)	500 V
Rated surge voltage (III/3)	6 kV
Rated voltage (III/2)	630 V
Rated surge voltage (III/2)	6 kV
Rated voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV

Connection data

Connection technology

Туре	PC terminal block can be aligned	
Nominal cross section	4 mm²	

Conductor connection

Connection method	Front screw connection
Conductor cross section rigid	0.5 mm² 6 mm²
Conductor cross section flexible	0.5 mm² 6 mm²
Conductor cross section AWG	20 10
Conductor cross section flexible, with ferrule without plastic sleeve	0.5 mm ² 4 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.5 mm² 4 mm²
2 conductors with same cross section, solid	0.5 mm² 1.5 mm²
2 conductors with same cross section, flexible	0.5 mm² 1.5 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² 1 mm²
2 conductors with the same cross section, flexible, with TWIN	0.5 mm ² 1 mm ²





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ferrule with plastic sleeve	
Stripping length	14 mm
Tightening torque	0.5 Nm 0.6 Nm

Mounting

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Mounting type	Wave soldering
Pin layout	Linear pinning

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	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	7.62 mm
Width [w]	7.62 mm
Height [h]	32 mm
Length [I]	27 mm
Installed height	26 mm
Solder pin length [P]	5 mm
Pin dimensions	1 x 0.8 mm
DCP design	

PCB design

Hole diameter	1.3 mm



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Mechanical tests

Test for	conductor	damage	and	slackening

Test passed
IEC 60998-2-1:1990-04
$0.5 \text{ mm}^2 / \text{solid} / > 30 \text{ N}$
0.5 mm^2 / flexible / > 30 N
6 mm² / solid / > 80 N
4 mm² / flexible / > 60 N

IEC 60998-2-1:1990-04

Electrical tests

Specification

Temperature-rise test

Specification	IEC 60998-2-1:1990-04
Requirement temperature-rise test	Increase in temperature ≤ 45 K

Insulation resistance

Specification	IEC 60998-2-1:1990-04
Insulation resistance, neighboring positions	10 ⁹ Ω

Specification IEC 60664-1:2007-04 Insulating material group I Comparative tracking index (IEC 60112) CTI 600 Rated insulation voltage (III/3) 500 V Rated surge voltage (III/3) 6 kV minimum clearance value - non-homogenous field (III/3) 5.5 mm minimum creepage distance (III/3) 6.3 mm Rated insulation voltage (III/2) 630 V Rated surge voltage (III/2) 6 kV minimum clearance value - non-homogenous field (III/2) 5.5 mm minimum creepage distance (III/2) 5.5 mm Rated insulation voltage (III/2) 6 kV minimum creepage distance (III/2) 5.5 mm Rated insulation voltage (III/2) 5.5 mm minimum creepage distance (III/2) 5.5 mm Rated surge voltage (III/2) 5.5 mm minimum clearance value - non-homogenous field (III/2) 5.5 mm minimum creepage distance (III/2) 5.5 mm	Air clearances and creepage distances	
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Rated insulation voltage (III/2) Rated surge voltage (III/2) minimum clearance value - non-homogenous field (III/2) S.5 mm minimum creepage distance (III/2) Rated insulation voltage (II/2) Rated surge voltage (II/2) minimum clearance value - non-homogenous field (II/2) 5.5 mm	minimum clearance value - non-homogenous field (III/3)	5.5 mm
Rated surge voltage (III/2) 6 kV minimum clearance value - non-homogenous field (III/2) 5.5 mm minimum creepage distance (III/2) 5.5 mm Rated insulation voltage (II/2) 1000 V Rated surge voltage (II/2) 6 kV minimum clearance value - non-homogenous field (II/2) 5.5 mm	minimum creepage distance (III/3)	6.3 mm
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minimum creepage distance (III/2) 5.5 mm Rated insulation voltage (II/2) 1000 V Rated surge voltage (II/2) 6 kV minimum clearance value - non-homogenous field (II/2) 5.5 mm	Rated surge voltage (III/2)	6 kV
Rated insulation voltage (II/2) Rated surge voltage (II/2) 6 kV minimum clearance value - non-homogenous field (II/2) 5.5 mm	minimum clearance value - non-homogenous field (III/2)	5.5 mm
Rated surge voltage (II/2) 6 kV minimum clearance value - non-homogenous field (II/2) 5.5 mm	minimum creepage distance (III/2)	5.5 mm
minimum clearance value - non-homogenous field (II/2) 5.5 mm	Rated insulation voltage (II/2)	1000 V
	Rated surge voltage (II/2)	6 kV
minimum creepage distance (II/2) 5.5 mm	minimum clearance value - non-homogenous field (II/2)	5.5 mm
	minimum creepage distance (II/2)	5.5 mm

Environmental and real-life conditions

Vibration test

Specification IEC 60068-2-6:1995-03



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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
Slow-wire test	
Specification	IEC 60998-2-1:1990-04
Temperature	850 °C
Time of exposure	5 s
mbient 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
ckaging specifications	
Type of packaging	packed in cardboard



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27460101
ECLASS-12.0	27460101
ECLASS-13.0	27460101
ETIM	
ETIM 9.0	EC002643
UNSPSC	

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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