1991309

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PCB terminal block, nominal current: 32 A, rated voltage (III/2): 400 V, nominal cross section: 2.5 mm², number of potentials: 2, number of rows: 1, number of positions per row: 3, product range: PT 2,5/..-H, pitch: 5 mm, connection method: Screw connection with wire protector, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 4.1 mm, number of solder pins per potential: 1, type of packaging: packed in cardboard

Your advantages

- · Well-known connection principle allows worldwide use
- · Low temperature rise, thanks to maximum contact force
- · High terminal block capacity thanks to rectangular terminal block space
- · Allows connection of two conductors
- · The latching on the side enables various numbers of positions to be combined

Commercial data

Item number	1991309
Packing unit	250 рс
Minimum order quantity	250 рс
Note	Made to order (non-returnable)
Sales key	AA13
Product key	AAMFNA
GTIN	4017918958220
Weight per piece (including packing)	2.63 g
Weight per piece (excluding packing)	2.63 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	РТ 2,5/Н
Product line	COMBICON Terminals M
Туре	PC termination block
Number of positions	3
Pitch	5 mm
Number of connections	2
Number of rows	1
Number of potentials	2
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Nominal current I _N	32 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 termination block
Nominal cross section	2.5 mm ²
Conductor connection	
Connection method	Screw connection with wire protector
Conductor cross section rigid	0.5 mm² 4 mm²
Conductor cross section flexible	0.5 mm² 4 mm²
Conductor cross section AWG	20 10
Conductor cross section flexible, with ferrule without plastic sleeve	0.5 mm ² 2.5 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.5 mm ² 2.5 mm ²
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	0.5 mm ² 0.75 mm ²
2 conductors with the same cross section, flexible, with TWIN	0.5 mm² 1.5 mm²

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ferrule with plastic sleeve	
Stripping length	6.5 mm
Tightening torque	0.45 Nm 0.5 Nm

Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning

Material specifications

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 (3 - 12 μm Sn)
Metal surface terminal point (middle layer)	Nickel (1.5 - 4 µm Ni)
Metal surface soldering area (top layer)	Tin (3 - 12 μm Sn)
Metal surface soldering area (middle layer)	Nickel (1.5 - 4 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

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

HŒR



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Height [h]	13.5 mm
Length [I]	9 mm
Installed height	13.5 mm
Solder pin length [P]	4.1 mm
Pin dimensions	ø 1 mm
PCB design	
Pin spacing	5 mm

1.3 mm

Mechanical tests

Hole diameter

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	0.5 mm² / solid / > 20 N
setpoint/actual value	0.5 mm² / flexible / > 20 N
	4 mm² / solid / > 60 N
	4 mm² / flexible / > 60 N

Electrical tests

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.
IEC 60947-7-4:2019-01
IEC 60512-3-1:2002-02
> 5 MΩ
> 5 MΩ
> 5 MΩ IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09
IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09
IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09 I CTI 600
IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09 I CTI 600 250 V
IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09 I CTI 600 250 V 4 kV
IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09 I CTI 600 250 V 4 kV 3 mm



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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
minimum clearance value - non-homogenous field (II/2)	3 mm
minimum creepage distance (II/2)	3.2 mm

Environmental and real-life conditions

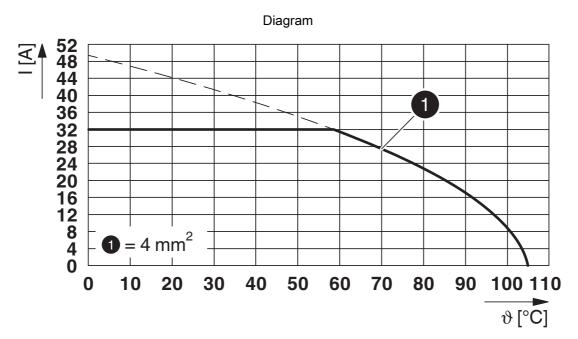
pecification	IEC 60068-2-6:2007-12
requency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Acceleration	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
w-wire test	
Specification	IEC 60695-2-10:2013-04
Temperature	850 °C
Time of exposure	5 s
ng	
Specification	IEC 60947-7-4:2019-01
bient 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
	-5 °C 100 °C
Ambient temperature (assembly) aging specifications	-5 °C 100 °C



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Drawings



Type: PT 2,5/...-5,0-H



 mm^2

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Approvals

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Approval ID: E6042	ized 5-20030211			
	Nominal voltage U _N	Nominal current I_N	Cross section AWG	Cross section mm ²
Use group B				
	300 V	20 A	20 - 12	-
Use group D				
	300 V	10 A	20 - 12	-

VDE	VDE Gutachten m Approval ID: 40029839	it Fertigungsüberwachung			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section r
		250 V	32 A	-	0.5 - 4

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Classifications

ECLASS

ECLASS-12.0 27460101	
ECLASS-13.0 27460101	

ETIM

	ETIM 8.0	EC002643
UN	ISPSC	
	UNSPSC 21.0	39121400

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	8524cea1-f5ba-476e-bcb3-80fe77df5229

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