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PCB terminal block, nominal current: 32 A, rated voltage (III/2): 320 V, nominal cross section: 4 mm², number of potentials: 10, number of rows: 1, number of positions per row: 10, product range: FRONT 4-H, pitch: 6.35 mm, connection method: Front screw connection, 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: 2, type of packaging: packed in cardboard

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	1703225
Packing unit	10 рс
Minimum order quantity	10 pc
Note	Made to order (non-returnable)
Product key	AANFAB
GTIN	4046356857116
Weight per piece (including packing)	80.78 g
Weight per piece (excluding packing)	80.78 g
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-H
Number of positions	10
Pitch	6.35 mm
Number of connections	10
Number of rows	1
Number of potentials	10
Pin layout	Linear pinning
Solder pins per potential	2

Electrical properties

Nominal current I _N	32 A
Nominal voltage U _N	320 V
Degree of pollution	3
Rated voltage (III/3)	320 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
Rated voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

Connection data

Туре	PC terminal block can be aligned
Nominal cross section	4 mm ²
onductor connection	
Connection method	Front screw connection
Conductor cross section rigid	0.5 mm² 6 mm²
Single-conductor/terminal point multi-stranded	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 2.5 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

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2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 1 mm²
Stripping length	14 mm
Tightening torque	0.5 Nm 0.6 Nm

Mounting

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	hot-dip tin-plated
Metal surface terminal point (top layer)	Tin (5 - 7 μm Sn)
Metal surface soldering area (top layer)	Tin (4 - 8 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

Dimensions

Dimensional drawing



Pitch	6.35 mm
Width [w]	65.1 mm
Height [h]	33 mm
Length [I]	26 mm
Installed height	26 mm
Solder pin length [P]	5 mm
Pin dimensions	1 x 0.8 mm

PCB design

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Hole diameter	1.3 mm
chanical tests	
est for conductor damage and slackening	
Specification	IEC 60999-1:1999-11
Result	Test passed
ull-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
	6 mm² / solid / > 80 N
	6 mm² / flexible / > 80 N
ctrical tests	
emperature-rise test	
Specification	IEC 60947-7-4:2013-08
Requirement temperature-rise test	The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper limiting temperature.
nort-time withstand current	
Specification	IEC 60947-7-4:2013-08
Specification	IEC 00947-7-4.2013-00
sulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ
r clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	1
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	320 V
Rated surge voltage (III/3)	4 kV
minimum clearance value - non-homogenous field (III/3)	3 mm
minimum creepage distance (III/3)	4 mm
Rated insulation voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
minimum clearance value - non-homogenous field (III/2)	3 mm
minimum creepage distance (III/2)	1.6 mm
	630 V
Rated insulation voltage (II/2)	
Rated insulation voltage (II/2) Rated surge voltage (II/2)	4 kV
	4 kV 3 mm

Environmental and real-life conditions

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oration 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)
Sweep speed	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
low-wire test	
Specification	IEC 60695-2-10:2000-10
Temperature	850 °C
Time of exposure	5 s
ging	
Specification	IEC 60947-7-4:2013-08
nbient 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
kaging specifications	
Type of packaging	packed in cardboard

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Classifications

ECLASS

ECLASS-12.0 27460101	ECLASS-11.0	27460101
	ECLASS-12.0	27460101
ECLASS-13.0 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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