

1737967

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Printed circuit board terminal, nominal current: 24 A, rated voltage (III/2): 400 V, nominal cross section: 2.5 mm², number of potentials: 14, number of rows: 1, number of positions per row: 14, product range: FRONT 2,5-H/SA 5, pitch: 5 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

Your advantages

- · Well-known connection principle allows worldwide use
- · Low temperature rise, thanks to maximum contact force
- · Operation and conductor connection from one direction enable integration into front of device
- Two solder pins reduce the mechanical strain on the soldering spots
- The latching on the side enables various numbers of positions to be combined
- · Allows connection of two conductors

Commercial data

Item number	1737967
Packing unit	10 pc
Minimum order quantity	10 pc
Product key	AAMFDD
GTIN	4046356281072
Weight per piece (including packing)	51.56 g
Weight per piece (excluding packing)	49.36 g
Country of origin	DE



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Technical data

Product properties

Product type	Printed circuit board terminal
Product family	FRONT 2,5-H/SA 5
Product line	COMBICON Terminals M
Туре	PC terminal block can be aligned
Number of positions	14
Pitch	5 mm
Number of connections	14
Number of rows	1
Number of potentials	14
Pin layout	Linear pinning
Solder pins per potential	2

Electrical properties

Properties

Nominal current I _N	24 A
Nominal voltage U _N	400 V
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 mm²
Conductor connection	
Connection method	Front screw connection
Conductor cross-section rigid	0.2 mm² 2.5 mm²

Connection method	Front screw connection
Conductor cross-section rigid	0.2 mm² 2.5 mm²
Conductor cross-section flexible	0.2 mm ² 2.5 mm ²
Conductor cross-section AWG	24 14
Conductor cross-section flexible, with ferrule without plastic sleeve	0.25 mm² 1.5 mm²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm ² 1.5 mm ²
2 conductors with same cross section, solid	0.2 mm² 0.75 mm²
2 conductors with same cross section, flexible	0.2 mm² 0.75 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² 0.34 mm²



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Stripping length	9 mm
Drive form screw head	Slotted
Tightening torque	0.4 Nm 0.5 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 (4 - 8 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	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	5 mm
Width [w]	72.5 mm
Height [h]	23.5 mm
Length [I]	19.5 mm
Installed height	18.5 mm
Solder pin length [P]	5 mm
Pin dimensions	0.8 x 0.8 mm

PCB design

Pin spacing	5 mm
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:1999-11
:1999-11
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:1999-11
lid / > 10 N
xible / > 10 N
lid / > 50 N
xible / > 50 N
-4:2019-01
ambient temperature and temperature rise of the all block shall not exceed the upper limiting
-4:2019-01
-1:2002-02
:2007-06 + A1:2010-12 + A2:2014-09

Environmental and real-life conditions



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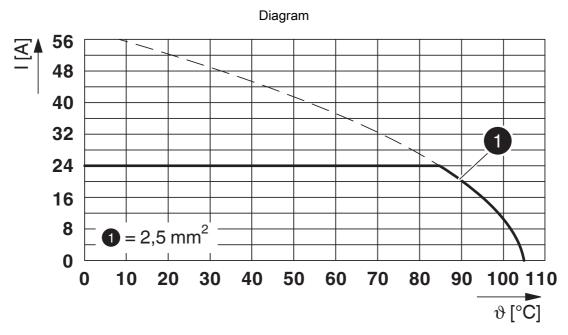
ibration test	
Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Acceleration	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis
Glow-wire test	
Specification	IEC 60695-2-10:2013-04
Temperature	850 °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)
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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Drawings



Type: FRONT 2,5-V/SA10/...



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1737967

•	CSA Approval ID: 13631				
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
В					
		300 V	10 A	24 - 12	-
D					
		300 V	10 A	24 - 12	-

c 911 us	cULus Recognized Approval ID: E60425-19860303				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
В					
		300 V	10 A	30 - 12	-
D					
		300 V	10 A	30 - 12	-



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Classifications

ECLASS

	ECLASS-13.0	27460101
	ECLASS-15.0	27460101
	TINA	
	ГІМ	
	ETIM 9.0	EC002643
U	NSPSC	
	UNSPSC 21.0	39121400



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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