

#### 1335960

https://www.phoenixcontact.com/us/products/1335960

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PCB terminal block, nominal current: 24 A, rated voltage (III/2): 400 V, nominal cross section: 2.5 mm<sup>2</sup>, number of potentials: 10, number of rows: 1, number of positions per row: 10, product range: FRONT 2,5-V/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]: 3.5 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	1335960
Packing unit	20 pc
Minimum order quantity	1,000 pc
Note	Made to order (non-returnable)
Product key	AAMFDF
GTIN	4063151635398
Weight per piece (including packing)	42 g
Weight per piece (excluding packing)	36 g
Country of origin	PL



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### Technical data

#### Product properties

Product line	COMBICON Terminals M
Product type	Printed circuit board terminal
Product family	FRONT 2,5-V/SA 5
Number of positions	10
Pitch	5 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 <sub>N</sub>	24 A
Nominal voltage U <sub>N</sub>	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 <sup>2</sup>
Conductor connection	
Connection method	Front screw connection
Conductor cross section rigid	0.2 mm² 2.5 mm²
Conductor cross section flexible	0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup>
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 mm² 1.5 mm²
2 conductors with same cross section, solid	0.2 mm² 0.75 mm²
2 conductors with same cross section, flexible	0.2 mm <sup>2</sup> 0.75 mm <sup>2</sup>
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² 0.34 mm²
Stripping length	9 mm
Tightening torque	0.4 Nm 0.5 Nm

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### 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

5	
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	h b p p
Pitch	5 mm
Width [w]	52.5 mm
Height [h]	23.18 mm
Length [I]	18.5 mm
Installed height	19.5 mm
Solder pin length [P]	3.5 mm
Pin dimensions	0.8 x 0.8 mm
PCB design	
Hole diameter	1.2 mm

### Mechanical tests

Test for conductor damage and slackening



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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 setpoint/actual value	0.2 mm² / solid / > 10 N
	0.2 mm² / flexible / > 10 N
	2.5 mm² / flexible / > 50 N
	2.5 mm² / solid / > 50 N

### Electrical tests

IEC 60947-7-4:2013-08
The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper limiting temperature.
IEC 60947-7-4:2013-08
IEC 60512-3-1:2002-02
> 5 MΩ
IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09
1
CTI 600
250 V
4 kV
3 mm
3.2 mm
400 V
4 kV
3 mm
3 mm
630 V
4 kV
3 mm
3.2 mm

### Environmental and real-life conditions

Vibration test	
Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min



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Amplitude	0.35 mm (10 Hz 60.1 Hz)
Sweep speed	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 60947-7-4:2013-08
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
aging specifications	
Type of packaging	packed in cardboard



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### Classifications

### ECLASS

ECLASS-11.0	27460101
ECLASS-13.0	27460101
ECLASS-12.0	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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