

1190366

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PCB terminal block, nominal current: 24 A, rated voltage (III/2): 400 V, nominal cross section: 2.5 mm², number of potentials: 5, number of rows: 1, number of positions per row: 5, product range: LPTA 2,5/, pitch: 5 mm, connection method: Lever Push-in connection, mounting: Wave soldering, conductor/PCB connection direction: 30 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm, type of packaging: packed in cardboard

#### Your advantages

- · Tool-free lever principle enables time-saving connection and release of conductors with/without ferrules
- · Clear lever positions provide reliable feedback on opened or closed clamping spaces
- · Defined contact force ensures that contact remains stable over the long term
- · Time-saving push-in connection when lever is closed
- · Intuitive operation, thanks to a color-coded actuation lever

#### Commercial data

Item number	1190366
Packing unit	100 pc
Minimum order quantity	100 pc
Sales key	AA13
Product key	AAMTAB
GTIN	4063151237165
Weight per piece (including packing)	9.484 g
Weight per piece (excluding packing)	9.484 g
Customs tariff number	85369010
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	LPTA 2,5/
Number of positions	5
Pitch	5 mm
Number of connections	5
Number of rows	1
Number of potentials	5
Pin layout	Linear pinning

#### 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)	320 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

Nominal cross section	2.5 mm <sup>2</sup>
Conductor connection	
Connection method	Lever Push-in connection
Conductor cross section rigid	0.2 mm <sup>2</sup> 4 mm <sup>2</sup> (Conductor connection with open terminal point)
	0.5 mm <sup>2</sup> 4 mm <sup>2</sup> (Push-in connection)
Conductor cross section flexible	0.2 mm² 4 mm²
Conductor cross section AWG	24 12
Conductor cross section flexible, with ferrule without plastic sleeve	0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup> (Conductor connection with open terminal point)
	1.5 mm² 2.5 mm² (Push-in connection)
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup> (Conductor connection with open terminal point)
	0.5 mm² 2.5 mm² (Push-in connection)
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm <sup>2</sup> 1.5 mm <sup>2</sup>
Stripping length	10 mm 12 mm



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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	Tin-plated
Metal surface terminal point (top layer)	Tin (10 - 16 μm Sn)
Metal surface soldering area (top layer)	Tin (10 - 16 μm Sn)

#### Material data - housing

<del>-</del>	
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

#### Material data - actuating element

Color (Actuating element)	orange (2003)
Insulating material	PA GF
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

#### **Dimensions**

Dimensional drawing	h h
Pitch	5 mm
Width [w]	26.5 mm
Height [h]	23.78 mm
Length [I]	21.35 mm
Installed height	20.28 mm
Solder pin length [P]	3.5 mm



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Rated surge voltage (II/2)

minimum creepage distance (II/2)

minimum clearance value - non-homogenous field (II/2)

PCB design Hole diameter	1.3 mm
noie diametei	1.3 11111
echanical tests	
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	0.2 mm² / solid / > 10 N
setpoint/actual value	0.2 mm² / flexible / > 10 N
	4 mm² / solid / > 60 N
	4 mm² / flexible / > 60 N
	0.5 mm² / solid / > 20 N
ectrical tests	
Temperature-rise test	150 00047 7 4 0040 04
Specification	IEC 60947-7-4:2019-01
Requirement temperature-rise test	The sum of ambient temperature and temperature rise of the PCB terminal block shall not exceed the upper limiting temperature.
Short-time withstand current	
Specification	IEC 60947-7-4:2019-01
Insulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ
Air clearances and creepage distances	
Specification	IEC 60947-7-4:2019-01
Insulating material group	I
Rated insulation voltage (III/3)	320 V
<u> </u>	
Rated surge voltage (III/3)	4 kV
Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3)	4 kV 3 mm
minimum clearance value - non-homogenous field (III/3)	3 mm
minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3)	3 mm 4 mm
minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3) Rated insulation voltage (III/2)	3 mm 4 mm 400 V
minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3) Rated insulation voltage (III/2) Rated surge voltage (III/2)	3 mm 4 mm 400 V 4 kV

4 kV

3 mm

3.2 mm



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#### Environmental and real-life conditions

Vibration 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	50 m/s² (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
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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### Classifications

#### **ECLASS**

	ECLASS-11.0	27460101		
	ECLASS-12.0	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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