

1707195

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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: 2, number of rows: 1, number of positions per row: 2, product range: MKDSO 2,5/..-R, pitch: 5 mm, connection method: Screw connection with tension sleeve, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm, number of solder pins per potential: 1, type of packaging: packed in cardboard. Product with pin output on right side

### Your advantages

- · Maintenance-free and vibration-resistant, thanks to the Reakdyn principle or spring-loaded elements
- · PCB terminal block is orthogonal to the PCB
- · Internationally recognized and proven screw connection

#### Commercial data

Item number	1707195
Packing unit	250 pc
Minimum order quantity	250 pc
Sales key	AC08
Product key	ACHADA
Catalog page	Page 113 (C-1-2013)
GTIN	4017918136789
Weight per piece (including packing)	3.76 g
Weight per piece (excluding packing)	3.69 g
Customs tariff number	85369010
Country of origin	DE



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### Technical data

### Product properties

Туре	PCB termination block perpendicular to the PCB
Product line	COMBICON Terminals M
Product type	Printed circuit board terminal
Product family	MKDSO 2,5/R
Number of positions	2
Pitch	5 mm
Set comprises	2907457 ME 12,5 OT-MKDSO SET
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 <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

Nominal cross section 2.5 mm <sup>2</sup>		
Nominal cross section 2.5 mm <sup>2</sup>		
	Nominal cross section	2.5 mm <sup>2</sup>
	Tronmar or occ occurr	2.0 11111

#### Conductor connection

Connection method	Screw connection with tension sleeve
Conductor cross section rigid	0.14 mm² 2.5 mm²
Conductor cross section flexible	0.14 mm² 2.5 mm²
Conductor cross section AWG	26 14
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 2.5 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 2.5 mm²
2 conductors with same cross section, solid	0.14 mm² 0.75 mm²
2 conductors with same cross section, flexible	0.14 mm² 0.75 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² 0.75 mm²
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	8 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	Tin-plated
Metal surface terminal point (top layer)	Tin (5 - 7 μm Sn)
Metal surface terminal point (middle layer)	Nickel (2 - 3 µm Ni)
Metal surface soldering area (top layer)	Tin (5 - 7 μm Sn)
Metal surface soldering area (middle layer)	Nickel (2 - 3 µm Ni)

#### 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**

	h
Pitch	5 mm
Width [w]	10.95 mm
Height [h]	18.05 mm
Length [I]	15.3 mm
Solder pin length [P]	3.5 mm
Pin dimensions	0.8 x 1 mm

PCB design



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Hole diameter	1.4 mm
hanical 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	0.14 mm² / solid / > 10 N
setpoint/actual value	0.14 mm² / flexible / > 10 N
	2.5 mm² / solid / > 50 N
	2.5 mm² / flexible / > 50 N
atrical to at-	
ctrical tests	
emperature-rise test	
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.
hort-time withstand current	
Specification	IEC 60947-7-4:2019-01
sulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ
ir clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
minimum clearance value - non-homogenous field (III/3)	3 mm
minimum creepage distance (III/3)	3.2 mm
Rated insulation voltage (III/2)	400 V
	400 V
Rated surge voltage (III/2)	
minimum clearance value - non-homogenous field (III/2)	3 mm
minimum creepage distance (III/2)	2 mm
Datad insulation valtage (II/O)	630 V
Rated insulation voltage (II/2)	411/
Rated insulation voltage (II/2)  Rated surge voltage (II/2)  minimum clearance value - non-homogenous field (II/2)	4 kV 3 mm

Environmental and real-life conditions



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Packaging specifications

Type of packaging

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 60695-2-10:2013-04
Temperature	850 °C
Time of exposure	5 s
ging	
Specification	IEC 60947-7-4:2019-01
mbient conditions	
Ambient temperature (operation)	-40 °C 105 °C (Depending on the current carrying capacity/derating curve)
Ambient temperature (storage/transport)	-40 °C 55 °C
Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 100 °C

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 = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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