

1364362

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PCB terminal block, nominal current: 125 A, rated voltage (III/2): 1000 V, nominal cross section: 35 mm², number of rows: 1, number of positions per row: 3, product range: MKDSP 25, pitch: 15 mm, connection method: Screw connection with tension sleeve, screw head form: Z2L Slotted Pozidriv, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 4.5 mm, number of solder pins per potential: 4, 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
- · Quick and convenient testing using integrated test option
- · Integrated protective guide prevents incorrect insertion of the conductor underneath the tension sleeve

#### Commercial data

Item number	1364362
Packing unit	25 pc
Minimum order quantity	1,000 pc
Note	Made to order (non-returnable)
Product key	AAOIAA
GTIN	4063151709853
Weight per piece (including packing)	65.86 g
Weight per piece (excluding packing)	59.144 g
Country of origin	CN



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## Technical data

### Product properties

Product line	COMBICON Terminals XL
Product type	Printed circuit board terminal
Product family	MKDSP 25
Number of positions	3
Pitch	15 mm
Number of rows	1
Pin layout	Linear pinning
Solder pins per potential	4

### Electrical properties

Nominal current I <sub>N</sub>	125 A
Nominal voltage U <sub>N</sub>	1000 V
Degree of pollution	3
Rated voltage (III/3)	1000 V
Rated surge voltage (III/3)	8 kV
Rated voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV
Rated voltage (II/2)	1000 V
Rated surge voltage (II/2)	8 kV

### Connection data

## Connection technology

Туре	Standard
Nominal cross section	35 mm²
Conductor connection	
Connection method	Screw connection with tension sleeve
Conductor cross section rigid	0.5 mm² 35 mm²
Conductor cross section flexible	0.5 mm² 35 mm²
Conductor cross section AWG	20 2
On all attended as the first transfer to the first	42 052

Connection method	Screw connection with tension sleeve
Conductor cross section rigid	0.5 mm² 35 mm²
Conductor cross section flexible	0.5 mm² 35 mm²
Conductor cross section AWG	20 2
Conductor cross section flexible, with ferrule without plastic sleeve	1 mm² 35 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	1.5 mm² 35 mm²
2 conductors with same cross section, solid	0.5 mm² 6 mm²
2 conductors with same cross section, flexible	0.5 mm² 6 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.5 mm² 4 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 16 mm²
Stripping length	18 mm
Tightening torque	2.5 Nm 4.5 Nm (< 25 mm <sup>2</sup> = 2.5 Nm, ≥ 25 mm <sup>2</sup> = 4.5 Nm)



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#### Information on the aluminum conductor

Cross section / torque / form of conductor	Cable cross section:35 mm²; Torque:4.5 Nm; Form of cable:round, single-strand, class 1(re)
Specification	DIN VDE 0276-603 (VDE 0276-603):2010-03
Note on conductor pretreatment	The following measures are required for durable and reliable contacting of the aluminum conductor: the stripped end of the aluminum conductor must be separated from the oxide layer using a blade, and immediately dipped in non-acid and non-alkali Vaseline. The pretreatment must be repeated when connecting the conductors anew.

### Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning
Drive form screw head	Slotted Pozidriv (Z2L)
Drive form screw head	Slotted Pozidriv (Z2L)

### 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 soldering area (top layer)	Tin (5 - 7 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	h h
Pitch	15 mm
Width [w]	45 mm



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Height [h]	43.5 mm
Length [I]	31 mm
Installed height	39 mm
Solder pin length [P]	4.5 mm
Pin dimensions	1.2 x 1.2 mm
PCB design	
Hole diameter	1.6 mm

### Mechanical 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 setpoint/actual value	0.5 mm² / solid / > 20 N
	0.5 mm² / flexible / > 20 N
	35 mm² / stranded / > 190 N

 $35 \text{ mm}^2$  / flexible / > 190 N

## Electrical tests

#### Temperature-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.
Short-time withstand current	
Specification	IEC 60947-7-4:2013-08
nsulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ
Air 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)	1000 V
Rated surge voltage (III/3)	8 kV
minimum clearance value - non-homogenous field (III/3)	8 mm
minimum creepage distance (III/3)	12.5 mm
	12.0 11111
Rated insulation voltage (III/2)	1000 V
Rated insulation voltage (III/2) Rated surge voltage (III/2)	



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minimum creepage distance (III/2)	8 mm
Rated insulation voltage (II/2)	1000 V
Rated surge voltage (II/2)	8 kV
minimum clearance value - non-homogenous field (II/2)	8 mm
minimum creepage distance (II/2)	8 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
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Sweep speed	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h

#### Glow-wire test

Specification	IEC 60695-2-10:2000-10
Temperature	850 °C
Time of exposure	5 s

#### Aging

Specification	IEC 60947-7-4:2013-08
Ambient 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 %

-5 °C ... 100 °C

### Packaging specifications

Ambient temperature (assembly)

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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