

1700237

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PCB terminal block, nominal current: 6 A, rated voltage (III/2): 160 V, nominal cross section: 0.5 mm², number of potentials: 13, number of rows: 1, number of positions per row: 13, product range: FFKDS(A) 0,5/..-H, pitch: 2.54 mm, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 0 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 3.4 mm, number of solder pins per potential: 2, type of packaging: packed in cardboard

## Your advantages

- · Time saving push-in connection, tools not required
- Defined contact force ensures that contact remains stable over the long term
- · Intuitive operation due to color-coded actuating push button
- · 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

#### Commercial data

Item number	1700237
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	AA11
Product key	AAKBBA
GTIN	4017918985622
Weight per piece (including packing)	7.3 g
Weight per piece (excluding packing)	6.32 g
Customs tariff number	85369010
Country of origin	CZ



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## Technical data

## Product properties

Туре	PC terminal block can be aligned
Product line	COMBICON Terminals XS
Product type	Printed circuit board terminal
Product family	FFKDS(A) 0,5/H
Number of positions	13
Pitch	2.54 mm
Number of connections	13
Number of rows	1
Number of potentials	13
Pin layout	Linear pinning
Solder pins per potential	2

### Electrical properties

Nominal current I <sub>N</sub>	6 A
Nominal voltage U <sub>N</sub>	160 V
Degree of pollution	3
Rated voltage (III/3)	63 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
Rated voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV

### Connection data

#### Connection technology

Type PC terminal	block can be aligned
Nominal cross section 0.5 mm²	

#### Conductor connection

Connection method	Push-in spring connection
Conductor cross section rigid	0.14 mm² 0.5 mm²
Conductor cross section flexible	0.14 mm² 0.5 mm²
Conductor cross section AWG	26 20
Stripping length	11 mm

### Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning

### Material specifications



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#### 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

## Material data – actuating element

Color (Actuating element)	orange (2003)
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	2.54 mm
Width [w]	35.52 mm
Height [h]	16 mm
Length [I]	13.6 mm
Installed height	12.6 mm



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Solder pin length [P]

Rated surge voltage (III/2)

minimum creepage distance (III/2)

minimum creepage distance (II/2)

Rated insulation voltage (II/2)

Rated surge voltage (II/2)

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

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

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Pin dimensions	0.5 x 0.8 mm
PCB design	
Pin spacing	5.08 mm
Hole diameter	1.1 mm
Mechanical tests	
Test for conductor damage and slackening	
Specification	IEC 60999-1:1990-05
Result	Test passed
Pull-out test	
Specification	IEC 60999-1:1990-05
Conductor cross section/conductor type/tractive force	0.14 mm² / solid / > 7 N
setpoint/actual value	0.2 mm² / flexible / > 10 N
	0.5 mm² / solid / > 30 N
	0.5 mm² / flexible / > 30 N
Temperature-rise test	
Specification	IEC 60998-1:1990-04
Requirement temperature-rise test	Increase in temperature ≤ 45 K
Insulation resistance	
Specification	IEC 60512-2:1985-00
Insulation resistance, neighboring positions	10 <sup>12</sup> Ω
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)	63 V
Rated surge voltage (III/3)	2.5 kV
minimum clearance value - non-homogenous field (III/3)	1.5 mm
minimum creepage distance (III/3)	1.6 mm
Rated insulation voltage (III/2)	160 V
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2.5 kV

1.5 mm

1.5 mm

320 V

2.5 kV

1.5 mm

1.6 mm

3.4 mm



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### Environmental and real-life conditions

#### Vibration test

Specification	IEC 60068-2-6:1982 + AMD 2:1985
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

### 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 %
Ambient temperature (assembly)	-5 °C 100 °C

### Packaging specifications

Type of packaging	packed in cardboard
Type of packaging	packed in caraboard



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## Classifications

UNSPSC 21.0

### **ECLASS**

ECLAS	S-11.0	27460101
ECLAS	S-12.0	27460101
ECLAS	S-13.0	27460101
ETIM		
ETIM 9	0	EC002643
UNSPSC		

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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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