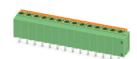


1751604

https://www.phoenixcontact.com/us/products/1751604

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PCB terminal block, nominal current: 15 A, rated voltage (III/2): 400 V, nominal cross section: 1.5 mm², number of potentials: 14, number of rows: 1, number of positions per row: 14, product range: FFKDS(A)/V1, pitch: 5.08 mm, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 90 °, 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
- · Vertical connection enables multi-row arrangement on the PCB

### Commercial data

Item number	1751604
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA12
Product key	AALBAK
GTIN	4017918233822
Weight per piece (including packing)	15.215 g
Weight per piece (excluding packing)	15.183 g
Customs tariff number	85369010
Country of origin	GR



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## Technical data

## Product properties

Туре	PC terminal block can be aligned
Product line	COMBICON Terminals S
Product type	Printed circuit board terminal
Product family	FFKDS(A)/V1
Number of positions	14
Pitch	5.08 mm
Number of connections	14
Number of rows	1
Number of potentials	14
Pin layout	Linear pinning
Solder pins per potential	2

## Electrical properties

Nominal current I <sub>N</sub>	15 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	1.5 mm²

#### Conductor connection

Connection method	Push-in spring connection
Conductor cross section rigid	0.2 mm² 1.5 mm²
Conductor cross section flexible	0.2 mm² 1.5 mm²
Conductor cross section AWG	24 16
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 0.75 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 0.75 mm²
Stripping length	10 mm

## Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning



1751604

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## 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

### Material data - actuating element

Color (Actuating element)	orange (2003)
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	ph ph
Pitch	5.08 mm
Width [w]	73.62 mm
Height [h]	17 mm

minimum clearance value - non-homogenous field (III/3)

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

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

minimum creepage distance (III/3)

minimum creepage distance (III/2)

Rated insulation voltage (II/2)

Rated surge voltage (II/2)

Rated insulation voltage (III/2)

Rated surge voltage (III/2)



1751604

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	Length [I]	12.7 mm	
	Installed height	13.6 mm	
	Solder pin length [P]	3.4 mm	
	Pin dimensions	0.5 x 1 mm	
PC	CB design		
	Pin spacing	7.62 mm	
	Hole diameter	1.3 mm	
Med	chanical tests		
Te	est for conductor damage and slackening		
	Specification	IEC 60999-1:1990-05	
	Result	Test passed	
Pu	ıll-out test		
	Specification	IEC 60999-1:1990-05	
	Conductor cross section/conductor type/tractive force	0.2 mm² / solid / > 10 N	
	setpoint/actual value	0.2 mm² / flexible / > 10 N	
		1.5 mm² / solid / > 40 N	
		1.5 mm² / flexible / > 40 N	
Electrical tests			
Te	emperature-rise test		
	Specification	IEC 60998-1:1990-04	
	Requirement temperature-rise test	Increase in temperature ≤ 45 K	
Ins	sulation resistance		
	Specification	IEC 60512-2:1985-00	
	Insulation resistance, neighboring positions	$10^{12} \Omega$	
Aiı	r clearances and creepage distances		
	Specification	IEC 60947-1:2007-06 + A1:2010-12 + A2:2014-09	
	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	

3 mm

400 V 4 kV

3 mm

3 mm

630 V

4 kV

3 mm

3.2 mm



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	minimum creepage distance (II/2)	3.2 mm			
Env	Environmental and real-life conditions				
LIIV	nonnental and real-life conditions				
V	ibration 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			
Α	mbient 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			
Pac	Packaging specifications				
	Type of packaging	packed in cardboard			



1751604

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## Classifications

UNSPSC 21.0

### **ECLASS**

	ECLASS-11.0	27460101	
	ECLASS-12.0	27460101	
	ECLASS-13.0	27460101	
ETIM			
	ETIM 9.0	EC002643	
UNSPSC			

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Mar 7, 2024, 1:59 AM Page 6 (7)



1751604

https://www.phoenixcontact.com/us/products/1751604

## Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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