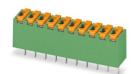


1891098

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PCB terminal block, nominal current: 4 A, rated voltage (III/2): 250 V, nominal cross section: 0.5 mm², number of potentials: 5, number of rows: 1, number of positions per row: 5, product range: FK-MPT 0,5/..-V, pitch: 3.5 mm, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 90 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm, number of solder pins per potential: 1, 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
- · Potentials can be easily looped through ideal for BUS applications
- · Small component size for applications where space is at a premium
- Vertical connection enables multi-row arrangement on the PCB

Commercial data

Item number	1891098
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA11
Product key	AAKBCB
Catalog page	Page 403 (C-1-2013)
GTIN	4017918169619
Weight per piece (including packing)	2.107 g
Weight per piece (excluding packing)	1.73 g
Customs tariff number	85369010
Country of origin	IN



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Technical data

Product properties

Туре	PC termination block
Product line	COMBICON Terminals XS
Product type	Printed circuit board terminal
Product family	FK-MPT 0,5/V
Number of positions	5
Pitch	3.5 mm
Number of connections	10
Number of rows	1
Mounting flange	without
Number of potentials	5
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Nominal current I _N	4 A
Nominal voltage U _N	250 V
Degree of pollution	3
Rated voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	250 V
Rated surge voltage (III/2)	2.5 kV
Rated voltage (II/2)	250 V
Rated surge voltage (II/2)	2.5 kV

Connection data

Conductor connection

Connection method	Push-in spring connection
Conductor cross section rigid	0.12 mm² 0.5 mm²
Conductor cross section AWG	26 20
Stripping length	6.5 mm

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	Steel/copper



1891098

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Surface characteristics	Tin-plated	
Metal surface terminal point (top layer)	Tin (5 - 7 µm Sn)	
Metal surface terminal point (middle layer)	Copper (2 - 3 µm Cu)	
Metal surface soldering area (top layer)	Tin (5 - 7 µm Sn)	
Metal surface soldering area (middle layer)	Copper (2 - 3 µm Cu)	
Material data - housing		
Color (Housing)	green (6021)	
Insulating material	PBT	
Insulating material group	Illa	
CTI according to IEC 60112	225	
Flammability rating according to UL 94	V0	
Material data – actuating element		
Color (Actuating element)	orange (2003)	
Insulating material	POM	
Insulating material group	I I	

600

ΗВ

Dimensions

CTI according to IEC 60112

Flammability rating according to UL 94

Dimensional drawing	ph ph
Pitch	3.5 mm
Width [w]	18 mm
Height [h]	13 mm
Length [I]	7 mm
Installed height	9.5 mm
Solder pin length [P]	3.5 mm
Pin dimensions	0.35 x 0.9 mm
PCB design	
Hole diameter	1 mm

Mechanical tests

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 / > 10 N



1891098

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setpoint/actual value

setpoint/actual value	0.5 mm ⁻ / solid / > 30 N
ctrical tests	
emperature-rise test	VEO 00000 / 1000 0/
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 ¹² Ω
Air clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	Illa
Comparative tracking index (IEC 60112)	CTI 225
Rated insulation voltage (III/3)	160 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)	2.5 mm
Rated insulation voltage (III/2)	250 V
Rated surge voltage (III/2)	2.5 kV
minimum clearance value - non-homogenous field (III/2)	1.5 mm
minimum creepage distance (III/2)	2.5 mm
Rated insulation voltage (II/2)	250 V
Rated surge voltage (II/2)	2.5 kV
minimum clearance value - non-homogenous field (II/2)	1.5 mm
minimum creepage distance (II/2)	2.5 mm
vironmental and real-life conditions	
/ibration test Specification	IEC 60068-2-6:1995-03
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	40 °C 400 °C (Departing on the constant of
Ambient temperature (operation)	-40 °C 100 °C (Depending on the current carrying capacity/derating curve)

-40 °C ... 70 °C

30 % ... 70 % -5 °C ... 100 °C

 $0.5 \text{ mm}^2 / \text{solid} / > 30 \text{ N}$

Packaging specifications

Ambient temperature (storage/transport)
Relative humidity (storage/transport)

Ambient temperature (assembly)



1891098

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Type of packaging	packed in cardboard
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1891098

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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	

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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