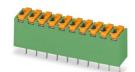


1891085

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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: 4, number of rows: 1, number of positions per row: 4, 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	1891085
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA11
Product key	AAKBCB
Catalog page	Page 403 (C-1-2013)
GTIN	4017918169602
Weight per piece (including packing)	1.598 g
Weight per piece (excluding packing)	1.38 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	4
Pitch	3.5 mm
Number of connections	8
Number of rows	1
Mounting flange	without
Number of potentials	4
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



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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
CTI according to IEC 60112	600
Flammability rating according to UL 94	НВ

Dimensions

Dimensional drawing	n p
Pitch	3.5 mm
Width [w]	14.5 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
Duill out toot	

Pull-out test

Specification	IEC 60999-1:1990-05
Conductor cross section/conductor type/tractive force	0.14 mm² / solid / > 10 N



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setpoint/actual value

ctrical tests	
emperature-rise test	
Specification	IEC 60998-1:1990-04
Requirement temperature-rise test	Increase in temperature ≤ 45 K
nsulation resistance	
Specification	IEC 60512-2:1985-00
Insulation resistance, neighboring positions	10 ¹² Ω
ir 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	
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)



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ype of packaging	packed in cardboard

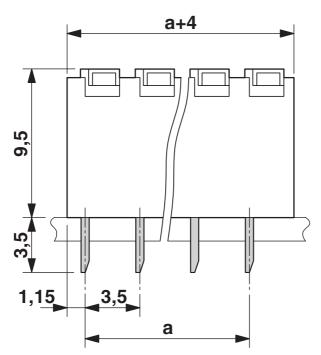


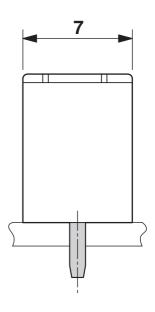
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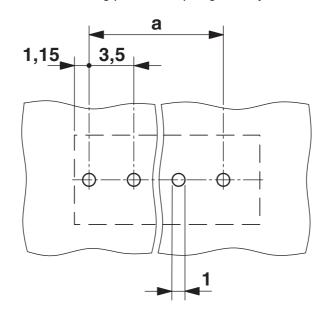
Drawings

Dimensional drawing





Drilling plan/solder pad geometry





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1891085

cULus Recognized Approval ID: E60425-19991118				
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	300 V	4 A	28 - 20	-
Use group D				
	300 V	4 A	28 - 20	-

VDE Zeichengenehmigung Approval ID: 40055523				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	250 V	4 A	-	0.2 - 0.5



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Classifications

ECLASS

	ECLASS-11.0	27460101
	ECLASS-12.0	27460101
	ECLASS-13.0	27460101
ETIM		
	ETIM 9.0	EC002643
UN	NSPSC	
	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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