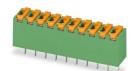


1891085

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Printed circuit board terminal, 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
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

Product type	Printed circuit board terminal
Product family	FK-MPT 0,5/V
Product line	COMBICON Terminals XS
Туре	PC termination block
Number of positions	4
Pitch	3.5 mm
Number of connections	8
Number of rows	1
Number of potentials	4
Mounting flange	without
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Properties

4 A
250 V
160 V
2.5 kV
250 V
2.5 kV
250 V
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



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Contact material	Steel/copper
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 n
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

Test for conductor damage and slackening

Specification	IEC 60999-1:1990-05
Result	Test passed
Pull-out test	
Specification	IEC 60999-1:1990-05



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Conductor cross section/conductor type/tractive force setpoint/actual value	0.14 mm² / solid / > 10 N
	0.5 mm² / solid / > 30 N
Electrical tests	
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 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

2.5 mm

250 V

2.5 kV

1.5 mm

2.5 mm

250 V

2.5 kV

1.5 mm

2.5 mm

Environmental and real-life conditions

minimum creepage distance (II/2)

minimum creepage distance (III/3)

minimum creepage distance (III/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)

Rated insulation voltage (III/2)

Rated surge voltage (III/2)

Vibration 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)
Acceleration	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis

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	



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Packaging specifications

Type of packaging packed in cardboard

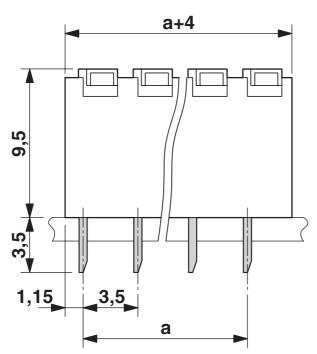


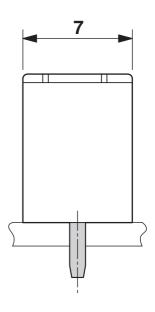
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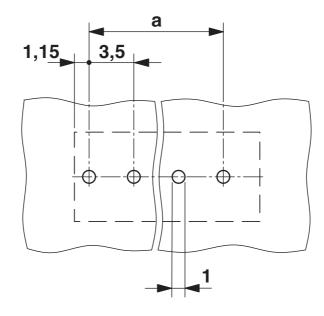
Drawings







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 Recog Approval ID: E60	CULus Recognized Approval ID: E60425-19991118			
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
В				
	300 V	4 A	28 - 20	-
D				
	300 V	4 A	28 - 20	-

	VDE approval of dra Approval ID: 40055523	DE approval of drawings proval ID: 40055523			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
		250 V	4 A	-	0.2 - 0.5



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-13.0	27460101
	ECLASS-15.0	27460101
ETIM		
	ETIM 9.0	EC002643
UNSPSC		

39121400



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions	
China RoHS		
Environment friendly use period (EFUP)	EFUP-E	
	No hazardous substances above the limits	
EU REACH SVHC		
REACH candidate substance (CAS No.)	No substance above 0.1 wt%	

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