

https://www.phoenixcontact.com/us/products/1909236



Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: FKCT 2,5/..-ST, pitch: 5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

Your advantages

- · Time saving push-in connection, tools not required
- · Intuitive operation due to color-coded actuating push button
- · Quick and convenient testing using integrated test option
- · Optimized for tight installation situations: operation and conductor connection from one direction
- Can be combined with the MSTB 2,5 range

Commercial data

Item number	1909236
Packing unit	100 pc
Minimum order quantity	100 pc
Sales key	AA03
Product key	AACFAG
Catalog page	Page 277 (C-1-2013)
GTIN	4017918188092
Weight per piece (including packing)	6.761 g
Weight per piece (excluding packing)	6.487 g
Customs tariff number	85366990
Country of origin	DE



https://www.phoenixcontact.com/us/products/1909236



Technical data

Product properties

Туре	Standard
Product line	COMBICON Connectors M
Product type	PCB connector
Product family	FKCT 2,5/ST
Number of positions	4
Pitch	5 mm
Number of connections	4
Number of rows	1
Mounting flange	without
Number of potentials	4

Electrical properties

Nominal current I _N	12 A
Nominal voltage U _N	320 V
Degree of pollution	3
Contact resistance	1.1 mΩ
Rated voltage (III/3)	320 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	320 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	Standard
Connector system	COMBICON MSTB 2,5
Nominal cross section	2.5 mm²
Contact connection type	Socket

Interlock

Locking type	without
Mounting flange	without

Conductor connection

Conductor Connection	
Connection method	Push-in spring connection
Conductor/PCB connection direction	0 °
Conductor cross section rigid	0.2 mm² 2.5 mm²
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section AWG	24 12
Conductor cross section flexible, with ferrule without plastic	0.25 mm ² 2.5 mm ²



https://www.phoenixcontact.com/us/products/1909236



sleeve	
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² 2.5 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 1.5 mm²
Cylindrical gauge a x b / diameter	2.8 mm x 2.0 mm / 2.3 mm
Stripping length	10 mm
Specifications for ferrules without insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6

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	hot-dip tin-plated
Metal surface terminal point (top layer)	Tin (4 - 8 μm Sn)
Metal surface contact area (top layer)	Tin (4 - 8 μm Sn)

Material data - housing

Color (Housing)	green (6021)
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

Material data – actuating element

Color (Actuating element)	orange (2003)
Insulating material	PBT
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

Dimensions

Dimensional drawing	h
Pitch	5 mm



https://www.phoenixcontact.com/us/products/1909236



Width [w]	20.1 mm
Height [h]	15 mm
Length [I]	25.6 mm
tes	
Notes on operation	In accordance with IEC 61984, COMBICON connectors have no switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load
echanical tests	
Conductor connection	
Specification	IEC 60999-1:1999-11
Result	Test passed
Fest for conductor damage and slackening	
Specification	IEC 60999-1:1999-11
Result	Test passed
Repeated connection and disconnection	JEO 00000 4 4000 44
Specification	IEC 60999-1:1999-11
Result	Test passed
Pull-out test	
Specification	IEC 60999-1:1999-11
Conductor cross section/conductor type/tractive force	0.14 mm² / solid / > 10 N
setpoint/actual value	0.14 mm² / flexible / > 10 N
	2.5 mm² / solid / > 50 N
	2.5 mm² / flexible / > 50 N
nsertion and withdrawal forces	
Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	8 N
Withdraw strength per pos. approx.	6 N
Resistance of inscriptions	
Specification	IEC 60068-2-70:1995-12
Result	Test passed
Nesuit	
Polarization and coding	
	IEC 60512-13-5:2006-02
Polarization and coding	IEC 60512-13-5:2006-02 Test passed
Polarization and coding Specification	
Polarization and coding Specification Result	



https://www.phoenixcontact.com/us/products/1909236

Air clearances and creepage distances |

Comparative tracking index (IEC 60112)

Insulating material group

Specification



IEC 60512-1-2:2002-02 Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz)
IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min
10 - 150 - 10 Hz 1 octave/min
10 - 150 - 10 Hz 1 octave/min
10 - 150 - 10 Hz 1 octave/min
1 octave/min
0.35 mm (10 Hz 60.1 Hz)
,
5g (60.1 Hz 150 Hz)
2.5 h
IEC 60512-9-1:2010-03
4.8 kV
1.1 mΩ
1.2 mΩ
25
> 5 MΩ
ISO 6988:1985-02
0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle
100 °C/168 h
2.21 kV
-40 °C 100 °C (dependent on the derating curve)
-40 °C 70 °C
30 % 70 %

IEC 60664-1:2007-04

CTI 600



1909236

https://www.phoenixcontact.com/us/products/1909236

Rated insulation voltage (III/3)	320 V
Rated surge voltage (III/3)	4 kV
minimum clearance value - non-homogenous field (III/3)	3 mm
minimum creepage distance (III/3)	4 mm
Rated insulation voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
minimum clearance value - non-homogenous field (III/2)	3 mm
minimum creepage distance (III/2)	3 mm
Rated insulation voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV
minimum clearance value - non-homogenous field (II/2)	3 mm
minimum creepage distance (II/2)	3.2 mm

Packaging specifications

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



https://www.phoenixcontact.com/us/products/1909236



Classifications

UNSPSC 21.0

ECLASS

E	ECLASS-11.0	27460202
Е	ECLASS-12.0	27460202
Е	ECLASS-13.0	27460202
ETIM		
Е	TIM 9.0	EC002638
UNSF	PSC	

39121400



https://www.phoenixcontact.com/us/products/1909236



Environmental product compliance

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

Phoenix Contact 2024 @ - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com