1897429

https://www.phoenixcontact.com/pc/products/1897429



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: 0.5 mm², color: green, nominal current: 6 A, rated voltage (III/2): 200 V, contact surface: Tin, contact connection type: Socket, number of potentials: 5, number of rows: 1, number of positions: 5, number of connections: 5, product range: QC 0,5/..-ST, pitch: 3.81 mm, connection method: Displacement connection, conductor/PCB connection direction: 0 °, plug-in system: COMBICON MC 1,5, locking: without, mounting: without, type of packaging: packed in cardboard

Your advantages

- Connection without conductor pretreatment for huge time savings
- · Quick and convenient testing using integrated test option

Commercial data

Item number	1897429
Packing unit	50 pc
Minimum order quantity	1 pc
Product key	AAAQQA
Catalog page	Page 204 (C-1-2013)
GTIN	4017918164928
Weight per piece (including packing)	5.12 g
Weight per piece (excluding packing)	4.655 g
Customs tariff number	85366990
Country of origin	CN



1897429

https://www.phoenixcontact.com/pc/products/1897429

Technical data

Product properties

Product type	PCB connector
Product family	QC 0,5/ST
Product line	COMBICON Connectors XS
Туре	Standard
Number of positions	5
Pitch	3.81 mm
Number of connections	5
Number of rows	1
Number of potentials	5
Mounting flange	without

Electrical properties

Nominal current I _N	6 A
Nominal voltage U _N	200 V
Degree of pollution	3
Rated voltage (III/3)	200 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	200 V
Rated surge voltage (III/2)	4 kV
Rated voltage (II/2)	400 V
Rated surge voltage (II/2)	4 kV

Connection data

Connection technology	
Туре	

Туре	Standard
Connector system	COMBICON MC 1,5
Nominal cross section	0.5 mm ²
Contact connection type	Socket
Interlock	
Locking type	without
Mounting flange	without
Conductor connection	
Connection method	Displacement connection
Conductor/PCB connection direction	0 °
Conductor cross section flexible	0.34 mm ² 0.5 mm ²
Conductor cross section AWG	22 20

Material specifications



1897429

https://www.phoenixcontact.com/pc/products/1897429

ote	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 (5 - 7 μm Sn)
Metal surface contact area (top layer)	Tin (5 - 7 μm Sn)
aterial 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	VO
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
aterial 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	h v w
Pitch	3.81 mm
Width [w]	19.84 mm
Height [h]	12.9 mm
Length [I]	26.8 mm

Mechanical tests

Insertion and withdrawal forces



1897429

https://www.phoenixcontact.com/pc/products/1897429

Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	8 N
Withdraw strength per pos. approx.	6 N

Environmental and real-life conditions

Ambient conditions	
Ambient temperature (operation)	-40 °C 100 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C 70 °C
Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 100 °C

Electrical tests

Air clearances and creepage distances |

Specification	IEC 60664-1:2007-04
Insulating material group	1
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	200 V
Rated surge voltage (III/3)	4 kV
minimum clearance value - non-homogenous field (III/3)	3 mm
minimum creepage distance (III/3)	3 mm
Rated insulation voltage (III/2)	200 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)	400 V
Rated surge voltage (II/2)	4 kV
minimum clearance value - non-homogenous field (II/2)	3 mm
minimum creepage distance (II/2)	3 mm

Packaging specifications

Type of packaging

packed in cardboard

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

PHOENIX CONTACT GmbH & Co. KG Flachsmarktstraße 8 D-32825 Blomberg +49 (0) 5235-3 00 info@phoenixcontact.com