

1934968

https://www.phoenixcontact.com/us/products/1934968

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: 1.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 400 V, contact surface: Sn, contact connection type: Socket, number of potentials: 12, number of rows: 1, number of positions: 12, number of connections: 12, product range: PT 1,5/..-PVH, pitch: 5 mm, connection method: Screw connection with wire protector, screw head form: H1L Slotted Phillips recess, conductor/PCB connection direction: 0 °, plug-in system: COMBICON PST 1,3, locking: without, mounting: without, type of packaging: packed in cardboard

Your advantages

- · Well-known connection principle allows worldwide use
- · Low temperature rise, thanks to maximum contact force
- · High terminal block capacity thanks to rectangular terminal block space
- · Allows connection of two conductors
- · Horizontal and vertical connection option for optimum conductor routing
- The latching on the side enables various numbers of positions to be combined

Commercial data

Item number	1934968
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA02
Product key	AABAJB
Catalog page	Page 425 (C-1-2013)
GTIN	4017918916732
Weight per piece (including packing)	14.88 g
Weight per piece (excluding packing)	13.375 g
Customs tariff number	85366990
Country of origin	CN



https://www.phoenixcontact.com/us/products/1934968



Technical data

Product properties

Product type	PCB connector
Product family	PT 1,5/PVH
Product line	COMBICON Connectors S
Туре	Plug for pin strip
Number of positions	12
Pitch	5 mm
Number of connections	12
Number of rows	1
Number of potentials	12
Mounting flange	without
Data management status	
Article revision	08

Electrical properties

Nominal current I _N	12 A
Nominal voltage U _N	400 V
Contact resistance	1.3 mΩ
Rated voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	400 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	Plug for pin strip
Connector system	COMBICON PST 1,3
Nominal cross section	1.5 mm ²
Contact connection type	Socket

Interlock

Locking type	without
Mounting flange	without

Conductor connection

Connection method	Screw connection with wire protector
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



https://www.phoenixcontact.com/us/products/1934968



Conductor cross section AWG	26 14
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² 1.5 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² 1.5 mm ²
2 conductors with same cross section, solid	0.2 mm² 0.75 mm²
2 conductors with same cross section, flexible	$0.2~\text{mm}^2\ldots0.75~\text{mm}^2$
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² 0.34 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 0.75 mm²
Cylindrical gauge a x b / diameter	2.8 mm x 2.0 mm / 2.4 mm
Stripping length	5 mm
Drive form screw head	Slotted Phillips recess (H1L)
Tightening torque	0.35 Nm 0.4 Nm

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	I
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
Pitch	5 mm
Width [w]	60 mm
Height [h]	11.4 mm



1934968

https://www.phoenixcontact.com/us/products/1934968

Length [I]	15 mm
echanical tests	
Scrienical tests	
Test for conductor damage and slackening	
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	0.2 mm² / solid / > 10 N
setpoint/actual value	0.2 mm² / flexible / > 10 N
	2.5 mm² / solid / > 50 N
	2.5 mm² / flexible / > 50 N
Insertion and withdrawal forces	
Specification	IEC 60512-13-2:2006-02
Result	Test passed
No. of cycles	10
Insertion strength per pos. approx.	5 N
Withdraw strength per pos. approx.	4 N
	- 11
Torque test	
Specification	IEC 60999-1:1999-11
Resistance of inscriptions	
Specification	IEC 60068-2-70:1995-12
Result	Test passed
Polarization and coding	
Specification	IEC 60512-7:1993-08 (Polarization)
Result	Test passed
Visual inspection	J=0.005/0.4.4.0000.00
Specification	IEC 60512-1-1:2002-02
Result	Test passed
Dimension check	
Specification	IEC 60512-1-2:2002-02
Result	Test passed
nvironmental and real-life conditions	
ivii oriineritai ariu real-ille coriullioris	
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)



1934968

https://www.phoenixcontact.com/us/products/1934968

Acceleration	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis
urability test	
Specification	IEC 60512-5:1992-08
Impulse withstand voltage at sea level	4.9 kV
Contact resistance R ₁	1.3 mΩ
Contact resistance R ₂	1.4 mΩ
Insertion/withdrawal cycles	10
limatic test	
Specification	ISO 6988:1985-02
Corrosive stress	0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle
Thermal stress	100 °C/168 h
Power-frequency withstand voltage	2.5 kV
mbient 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 %
Relative Hullilluty (Stolade/HallSbott)	
Ambient temperature (assembly) ctrical tests	-5 °C 100 °C
Ambient temperature (assembly) ctrical tests hermal test Test group C	-5 °C 100 °C
Ambient temperature (assembly) ctrical tests nermal test Test group C Specification	-5 °C 100 °C
Ambient temperature (assembly) ctrical tests nermal test Test group C	-5 °C 100 °C
Ambient temperature (assembly) ctrical tests hermal test Test group C Specification Tested number of positions	-5 °C 100 °C
Ambient temperature (assembly) ctrical tests hermal test Test group C Specification	-5 °C 100 °C
Ambient temperature (assembly) ctrical tests nermal test Test group C Specification Tested number of positions sulation resistance	-5 °C 100 °C IEC 60512-5-1:2002-02 16
Ambient temperature (assembly) ctrical tests nermal test Test group C Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions	-5 °C 100 °C IEC 60512-5-1:2002-02 16 IEC 60512-3-1:2002-02
Ambient temperature (assembly) ctrical tests nermal test Test group C Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions	-5 °C 100 °C IEC 60512-5-1:2002-02 16 IEC 60512-3-1:2002-02
Ambient temperature (assembly) ctrical tests nermal test Test group C Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions ir clearances and creepage distances	-5 °C 100 °C IEC 60512-5-1:2002-02 16 IEC 60512-3-1:2002-02 > 5 ΜΩ
Ambient temperature (assembly) ctrical tests hermal test Test group C Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions ir clearances and creepage distances Specification	-5 °C 100 °C IEC 60512-5-1:2002-02 16 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04
Ambient temperature (assembly) ctrical tests hermal test Test group C Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions ir clearances and creepage distances Specification Insulating material group	-5 °C 100 °C IEC 60512-5-1:2002-02 16 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I
Ambient temperature (assembly) ctrical tests hermal test Test group C Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions ir clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112)	-5 °C 100 °C IEC 60512-5-1:2002-02 16 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600
Ambient temperature (assembly) ctrical tests hermal test Test group C Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions ir clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3)	-5 °C 100 °C IEC 60512-5-1:2002-02 16 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 250 V
Ambient temperature (assembly) ctrical tests hermal test Test group C Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions ir clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3)	-5 °C 100 °C IEC 60512-5-1:2002-02 16 IEC 60512-3-1:2002-02 > 5 ΜΩ IEC 60664-1:2007-04 I CTI 600 250 V 4 kV
Ambient temperature (assembly) ctrical tests hermal test Test group C Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions ir clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3)	-5 °C 100 °C IEC 60512-5-1:2002-02 16 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 250 V 4 kV 3 mm
Ambient temperature (assembly) ctrical tests hermal test Test group C Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions ir clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3)	-5 °C 100 °C IEC 60512-5-1:2002-02 16 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 250 V 4 kV 3 mm 3.2 mm
Ambient temperature (assembly) ctrical tests hermal test Test group C Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions ir clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3) Note on connection cross section	-5 °C 100 °C IEC 60512-5-1:2002-02 16 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 250 V 4 kV 3 mm 3.2 mm With connected conductor 2.5 mm² (solid).
Ambient temperature (assembly) ctrical tests hermal test Test group C Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions ir clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3) Note on connection cross section Rated insulation voltage (III/2)	-5 °C 100 °C IEC 60512-5-1:2002-02 16 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 250 V 4 kV 3 mm 3.2 mm With connected conductor 2.5 mm² (solid). 400 V
Ambient temperature (assembly) ctrical tests hermal test Test group C Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions ir clearances and creepage distances Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) Note on connection cross section Rated insulation voltage (III/2) Rated surge voltage (III/2)	-5 °C 100 °C IEC 60512-5-1:2002-02 16 IEC 60512-3-1:2002-02 > 5 MΩ IEC 60664-1:2007-04 I CTI 600 250 V 4 kV 3 mm 3.2 mm With connected conductor 2.5 mm² (solid). 400 V 4 kV



1934968

https://www.phoenixcontact.com/us/products/1934968

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

P

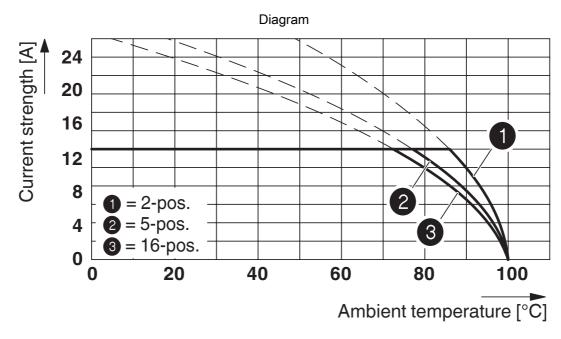
Type of packaging	packed in cardboard



https://www.phoenixcontact.com/us/products/1934968

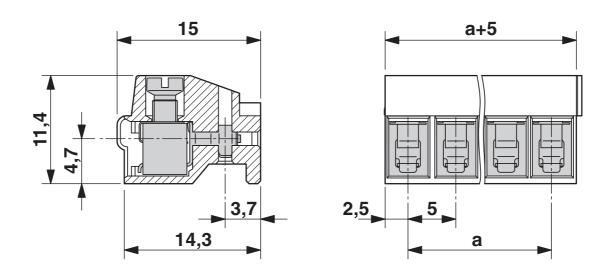


Drawings



Type: PT 1,5/...-PVH-5,0 with PST 1,3/...-5,0

Dimensional drawing





1934968

https://www.phoenixcontact.com/us/products/1934968

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1934968

CULus Recognized Approval ID: E60425-20030211				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	300 V	15 A	26 - 12	-
Use group D				
	300 V	10 A	26 - 12	-

VDE Zeichengenehmigung Approval ID: 40055514				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	400 V	12 A	-	0.5 - 1.5



1934968

https://www.phoenixcontact.com/us/products/1934968

Classifications

ECLASS

	ECLASS-11.0	27460202
	ECLASS-12.0	27460202
	ECLASS-13.0	27460202
ETIM		
	ETIM 9.0	EC002638
UNSPSC		
	UNSPSC 21.0	39121400



1934968

https://www.phoenixcontact.com/us/products/1934968

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%

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