

1805517

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PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 10 A, rated voltage (III/2): 400 V, contact surface: Tin, contact connection type: Socket, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: PTS 1,5/. .-PH, pitch: 5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, plug-in system: COMBICON PST 1,3, locking: without, mounting: without, 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
- · Quick and convenient testing using integrated test option
- · Largest possible clamping space in a small component size

#### Commercial data

Item number	1805517
Packing unit	250 pc
Minimum order quantity	250 pc
Sales key	AA02
Product key	AABFRA
Catalog page	Page 417 (C-1-2013)
GTIN	4046356679121
Weight per piece (including packing)	1.336 g
Weight per piece (excluding packing)	1.203 g
Customs tariff number	85366990
Country of origin	BG



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## Technical data

### Product properties

Product type	PCB connector
Product family	PTS 1,5/PH
Product line	COMBICON Connectors S
Туре	Standard
Number of positions	2
Pitch	5 mm
Number of connections	2
Number of rows	1
Number of potentials	2
Mounting flange	without

### Electrical properties

Nominal current I <sub>N</sub>	10 A
Nominal voltage U <sub>N</sub>	400 V
Degree of pollution	3
Contact resistance	1.8 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	Standard
Connector system	COMBICON PST 1,3
Nominal cross section	1.5 mm²
Contact connection type	Socket

### Interlock

Locking type	without
Mounting flange	without

#### 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	26 14
Conductor cross section flexible, with ferrule without plastic	0.25 mm² 1.5 mm²



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sleeve	
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 1.5 mm²
Stripping length	8 mm

### 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

### Material data – actuating element

-	
Color (Actuating element)	orange (2003)
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]	10 mm



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Height [h]	11.7 mm
Length [I]	12.8 mm
·	
lechanical tests	
Conductor connection	
Specification	IEC 60999-1:1999-11
Result	Test passed
Test for conductor damage and slackening	
Specification	IEC 60999-1:1999-11
Result	Test passed
Repeated connection and disconnection	
Specification	IEC 60999-1:1999-11
Result	Test passed
Pull-out test	
Specification	IFC 60000 4:4000 44
Conductor cross section/conductor type/tractive force	IEC 60999-1:1999-11  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
	2.0 mm / nexible / 2 do N
Insertion and withdrawal forces	
Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	7 N
Withdraw strength per pos. approx.	6 N
Resistance of inscriptions	
Specification	IEC 60068-2-70:1995-12
Result	Test passed
Mount in a setion	
Visual inspection  Specification	IEC 60512-1-1:2002-02
Result	Test passed
result	rest passeu
Dimension check	
Specification	IEC 60512-1-2:2002-02
Result	Test passed
nvironmental and real-life conditions	
TVITOTITIETILAI ATIU TEAI-IIIE CUTULIUTIS	
Vibration test	
Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min



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Amplitude	0.35 mm (10 Hz 60.1 Hz)
Acceleration	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
urability test	
Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	4.8 kV
Contact resistance R <sub>1</sub>	1.8 mΩ
Contact resistance R <sub>2</sub>	2.1 mΩ
Insertion/withdrawal cycles	25
Insulation resistance, neighboring positions	> 5 MΩ
limatic test	
Specification	ISO 6988:1985-02
Corrosive stress	0.2 dm <sup>3</sup> SO <sub>2</sub> on 300 dm <sup>3</sup> /40 °C/1 cycle
Thermal stress	100 °C/168 h
Power-frequency withstand voltage	2.21 kV
mbient conditions  Ambient temperature (operation)	-40 °C 100 °C (dependent on the derating curve)
	-40 °C 70 °C
Ambient temperature (storage/transport)	
Ambient temperature (storage/transport)  Relative humidity (storage/transport)	
Relative humidity (storage/transport)  Ambient temperature (assembly)	30 % 70 % -5 °C 100 °C
Relative humidity (storage/transport)  Ambient temperature (assembly)  ctrical tests  hermal test   Test group C	30 % 70 % -5 °C 100 °C
Relative humidity (storage/transport)  Ambient temperature (assembly)  ctrical tests  hermal test   Test group C  Specification	30 % 70 % -5 °C 100 °C
Relative humidity (storage/transport)  Ambient temperature (assembly)  ctrical tests  nermal test   Test group C	30 % 70 % -5 °C 100 °C
Relative humidity (storage/transport)  Ambient temperature (assembly)  ctrical tests  nermal test   Test group C  Specification  Tested number of positions	30 % 70 % -5 °C 100 °C
Relative humidity (storage/transport)  Ambient temperature (assembly)  ctrical tests  hermal test   Test group C  Specification  Tested number of positions  sullation resistance  Specification	30 % 70 %  -5 °C 100 °C  IEC 60512-5-1:2002-02  12  IEC 60512-3-1:2002-02
Relative humidity (storage/transport)  Ambient temperature (assembly)  ctrical tests  nermal test   Test group C  Specification  Tested number of positions  sulation resistance	30 % 70 % -5 °C 100 °C IEC 60512-5-1:2002-02 12
Relative humidity (storage/transport)  Ambient temperature (assembly)  ctrical tests  nermal test   Test group C  Specification  Tested number of positions  sulation resistance  Specification  Insulation resistance, neighboring positions	30 % 70 %  -5 °C 100 °C  IEC 60512-5-1:2002-02  12  IEC 60512-3-1:2002-02
Relative humidity (storage/transport)  Ambient temperature (assembly)  ctrical tests  hermal test   Test group C  Specification  Tested number of positions  sulation resistance  Specification  Insulation resistance, neighboring positions	30 % 70 %  -5 °C 100 °C  IEC 60512-5-1:2002-02  12  IEC 60512-3-1:2002-02
Relative humidity (storage/transport)  Ambient temperature (assembly)  ctrical tests  nermal test   Test group C  Specification  Tested number of positions  sulation resistance  Specification  Insulation resistance, neighboring positions  emperature cycles	30 % 70 %  -5 °C 100 °C  IEC 60512-5-1:2002-02  12  IEC 60512-3-1:2002-02  > 5 ΜΩ
Relative humidity (storage/transport)  Ambient temperature (assembly)  ctrical tests  nermal test   Test group C  Specification  Tested number of positions  sulation resistance  Specification  Insulation resistance, neighboring positions  emperature cycles  Specification  Result	30 % 70 %  -5 °C 100 °C  IEC 60512-5-1:2002-02  12  IEC 60512-3-1:2002-02  > 5 MΩ  IEC 60999-1:1999-11
Relative humidity (storage/transport)  Ambient temperature (assembly)  ctrical tests  nermal test   Test group C  Specification  Tested number of positions  sulation resistance  Specification  Insulation resistance, neighboring positions  emperature cycles  Specification  Result  r clearances and creepage distances	30 % 70 %  -5 °C 100 °C  IEC 60512-5-1:2002-02  12  IEC 60512-3-1:2002-02  > 5 MΩ  IEC 60999-1:1999-11
Relative humidity (storage/transport)  Ambient temperature (assembly)  ctrical tests  nermal test   Test group C  Specification  Tested number of positions  sulation resistance  Specification  Insulation resistance, neighboring positions  emperature cycles  Specification  Result  r clearances and creepage distances    Specification	30 % 70 %  -5 °C 100 °C  IEC 60512-5-1:2002-02  12  IEC 60512-3-1:2002-02  > 5 MΩ  IEC 60999-1:1999-11  Test passed
Relative humidity (storage/transport)  Ambient temperature (assembly)  ctrical tests  nermal test   Test group C  Specification  Tested number of positions  sulation resistance  Specification  Insulation resistance, neighboring positions  emperature cycles  Specification  Result  r clearances and creepage distances	30 % 70 %  -5 °C 100 °C  IEC 60512-5-1:2002-02  12  IEC 60512-3-1:2002-02  > 5 MΩ  IEC 60999-1:1999-11  Test passed  IEC 60664-1:2007-04
Relative humidity (storage/transport)  Ambient temperature (assembly)  ctrical tests  hermal test   Test group C  Specification  Tested number of positions  asulation resistance  Specification  Insulation resistance, neighboring positions  emperature cycles  Specification  Result  ir clearances and creepage distances    Specification  Insulating material group	30 % 70 %  -5 °C 100 °C  IEC 60512-5-1:2002-02  12  IEC 60512-3-1:2002-02  > 5 MΩ  IEC 60999-1:1999-11  Test passed  IEC 60664-1:2007-04  I
Relative humidity (storage/transport)  Ambient temperature (assembly)  ctrical tests  hermal test   Test group C  Specification  Tested number of positions  sullation resistance  Specification  Insulation resistance, neighboring positions  emperature cycles  Specification  Result  ir clearances and creepage distances    Specification  Insulating material group  Comparative tracking index (IEC 60112)	30 % 70 %  -5 °C 100 °C  IEC 60512-5-1:2002-02  12  IEC 60512-3-1:2002-02  > 5 MΩ  IEC 60999-1:1999-11  Test passed  IEC 60664-1:2007-04  I  CTI 600
Relative humidity (storage/transport)  Ambient temperature (assembly)  ctrical tests  hermal test   Test group C  Specification  Tested number of positions  asulation resistance  Specification  Insulation resistance, neighboring positions  emperature cycles  Specification  Result  ir clearances and creepage distances    Specification  Insulating material group  Comparative tracking index (IEC 60112)  Rated insulation voltage (III/3)	30 % 70 %  -5 °C 100 °C  IEC 60512-5-1:2002-02  12  IEC 60512-3-1:2002-02  > 5 MΩ  IEC 60999-1:1999-11  Test passed  IEC 60664-1:2007-04  I  CTI 600  250 V
Relative humidity (storage/transport)  Ambient temperature (assembly)  ctrical tests  hermal test   Test group C  Specification  Tested number of positions  asulation resistance  Specification  Insulation resistance, neighboring positions  emperature cycles  Specification  Result  ir clearances and creepage distances    Specification  Insulating material group  Comparative tracking index (IEC 60112)  Rated insulation voltage (III/3)  Rated surge voltage (III/3)	30 % 70 %  -5 °C 100 °C  IEC 60512-5-1:2002-02  12  IEC 60512-3-1:2002-02  > 5 MΩ  IEC 60999-1:1999-11  Test passed  IEC 60664-1:2007-04  I  CTI 600  250 V  4 kV



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Rated surge voltage (III/2)	4 kV
minimum clearance value - non-homogenous field (III/2)	3 mm
minimum creepage distance (III/2)	2 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

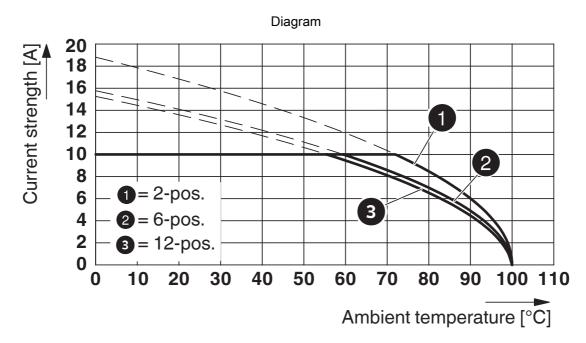
Type of packaging	packed in cardboard
Type of packaging	paonoa in oaraboara



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## Drawings



Type: PTS 1,5/...-PH-5,0 with PST 1,3/...-5,0



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## **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1805517

cULus Recognized Approval ID: E60425-20030211				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Use group B				
	300 V	7 A	26 - 14	-
Use group D				
	300 V	7 A	26 - 14	-

<b>₩</b>	VDE Gutachten mit Fertigungsüberwachung Approval ID: 40040542				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		320 V	10 A	-	0.2 - 2.5



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## Classifications

UNSPSC 21.0

### **ECLASS**

Е	ECLASS-11.0	27460202
E	ECLASS-12.0	27460202
E	ECLASS-13.0	27460202
ETIM	1	
E	ETIM 9.0	EC002638
UNSI	PSC	

39121400



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## Environmental product compliance

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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#### Accessories

SZF 1-0,6X3,5 - Screwdriver

1204517

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Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

### CP-PTDA - Coding profile

1731361

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Coding profile, inserted into the groove on the plug, made from red insulating material, diameter: 1.35  $\mbox{\sc mm}$ 





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PST 1,3/2-5,0 - Pin strip

1933189

https://www.phoenixcontact.com/us/products/1933189



Pin strip, nominal cross section: 1.5 mm², color: black, nominal current: 12 A (depends on the plug used), rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Pin, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: PST 1,3/..-V, pitch: 5 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 3.5 mm, plug-in system: COMBICON PST 1,3, locking: without, mounting: without, type of packaging: packed in cardboard, The maximum current depends on the plug used. The lower of the two current values apply for plug and pin strip. The pin strip is made of highly temperature resistant plastic and is thus suitable for the reflow process.

PST 1,3/2-H-5,0 - Pin strip

1995635

https://www.phoenixcontact.com/us/products/1995635



Pin strip, nominal cross section: 1.5 mm², color: black, nominal current: 12 A (depends on the plug used), rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Pin, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: PST 1,3/..-H, pitch: 5 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 6.8 mm, plug-in system: COMBICON PST 1,3, locking: without, mounting: without, type of packaging: packed in cardboard, The maximum current depends on the plug used. The lower of the two current values apply for plug and pin strip. The pin strip is made of highly temperature resistant plastic and is thus suitable for the reflow process.



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PST 1,3/2-5,0 R24 - Pin strip

1720301

https://www.phoenixcontact.com/us/products/1720301



Pin strip, nominal cross section: 1.5 mm², color: black, nominal current: 12 A (depends on the plug used), rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Pin, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: PST 1,3/..-V, pitch: 5 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 3.5 mm, plug-in system: COMBICON PST 1,3, locking: without, mounting: without, type of packaging: 24 mm wide tape, The maximum current depends on the plug used. The lower of the two current values apply for plug and pin strip. The pin strip is made of highly temperature resistant plastic and is thus suitable for the reflow process.

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