

1038094

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PCB connector, nominal cross section: 1.5 mm², color: black, nominal current: 10 A, rated voltage (III/2): 400 V, contact surface: Sn, contact connection type: Socket, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, 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 method: 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	1038094
Packing unit	250 pc
Minimum order quantity	250 pc
Note	Made to order (non-returnable)
Product key	AABFRA
GTIN	4055626590752
Weight per piece (including packing)	1.933 g
Weight per piece (excluding packing)	1.933 g
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
Number of positions	3
Pitch	5 mm
Number of connections	3
Number of rows	1
Number of potentials	3

### Electrical properties

#### **Properties**

Nominal current I <sub>N</sub>	10 A
Nominal voltage U <sub>N</sub>	400 V
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 type	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	26 14
Conductor cross-section flexible, with ferrule without plastic sleeve	0.25 mm <sup>2</sup> 1.5 mm <sup>2</sup>
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm² 1.5 mm²



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Length [I]

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Stripping length	8 mm
laterial specifications	
and the speciments	
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)	black (9005)
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	
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
mensions	
Dimensional drawing	
	h
Pitch	5 mm
Width [w]	15 mm
Height [h]	11.7 mm

12.8 mm



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### Mechanical tests

Specification	IEC 60999-1:1999-11
Result	Test passed
Nosak	Tool passes
est 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	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
nsertion and withdrawal forces	
Specification	IEC 60512-13-2:2006-02
Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	7 N
Withdraw strength per pos. approx.	6 N
Decistance of incominting	
Resistance of inscriptions  Specification	IEC 60068-2-70:1995-12
Result	Test passed
result	rest passeu
/isual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed
Dimension check	
Specification	IEC 60512-1-2:2002-02
Result	Test passed

### Environmental and real-life conditions

#### Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)



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Acceleration	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis
Durability 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
Climatic 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
ambient conditions	
Ambient conditions  Ambient temperature (operation)	-40 °C 100 °C (dependent on the derating curve)
/ indicate temperature (operation)	, , , , , , , , , , , , , , , , , , , ,
Ambient temperature (storage/transport)	-40 °C 70 °C
Ambient temperature (storage/transport)  Relative humidity (storage/transport)	-40 °C 70 °C
Ambient temperature (storage/transport)  Relative humidity (storage/transport)  Ambient temperature (assembly)  ctrical tests	-40 °C 70 °C 30 % 70 % -5 °C 100 °C
Relative humidity (storage/transport)  Ambient temperature (assembly)  ctrical tests  Thermal test   Test group C	30 % 70 % -5 °C 100 °C
Relative humidity (storage/transport)  Ambient temperature (assembly)  ctrical tests  Thermal test   Test group C  Specification	30 % 70 % -5 °C 100 °C
Relative humidity (storage/transport)  Ambient temperature (assembly)  ctrical tests  Thermal test   Test group C	30 % 70 % -5 °C 100 °C
Relative humidity (storage/transport)  Ambient temperature (assembly)  ctrical tests  thermal test   Test group C  Specification  Tested number of positions	30 % 70 % -5 °C 100 °C IEC 60512-5-1:2002-02 12
Relative humidity (storage/transport)  Ambient temperature (assembly)  ctrical tests  Thermal test   Test group C  Specification  Tested number of positions  nsulation 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  thermal test   Test group C  Specification  Tested number of positions	30 % 70 % -5 °C 100 °C IEC 60512-5-1:2002-02 12
Relative humidity (storage/transport)  Ambient temperature (assembly)  ctrical tests  Thermal test   Test group C  Specification  Tested number of positions  nsulation 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  Thermal test   Test group C  Specification  Tested number of positions  resulation 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  Thermal test   Test group C  Specification  Tested number of positions  nsulation resistance  Specification  Insulation resistance, neighboring positions  Temperature 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)  Arctrical tests  Thermal test   Test group C  Specification  Tested number of positions  Insulation resistance  Specification  Insulation resistance, neighboring positions  Temperature 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  Thermal test   Test group C  Specification  Tested number of positions  nsulation resistance  Specification  Insulation resistance, neighboring positions  Temperature cycles  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
Relative humidity (storage/transport)  Ambient temperature (assembly)  ctrical tests  Thermal test   Test group C  Specification  Tested number of positions  nsulation resistance  Specification  Insulation resistance, neighboring positions  Temperature cycles  Specification  Result  Air 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
Relative humidity (storage/transport)  Ambient temperature (assembly)  Ambient temperature C  Specification  Insulation resistance  Specification  Insulation resistance, neighboring positions  Ambient temperature cycles  Specification  Result  Air 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  IEC 60664-1:2007-04
Relative humidity (storage/transport)  Ambient temperature (assembly)  ctrical tests  Thermal test   Test group C  Specification  Tested number of positions  resulation resistance  Specification  Insulation resistance, neighboring positions  Temperature cycles  Specification  Result  Specification  Result  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  Thermal test   Test group C  Specification  Tested number of positions  nsulation resistance  Specification  Insulation resistance, neighboring positions  Temperature cycles  Specification  Result  Specification  Result  In 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  Thermal test   Test group C  Specification  Tested number of positions  resulation resistance  Specification  Insulation resistance, neighboring positions  Temperature cycles  Specification  Result  Specification  Result  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  Thermal test   Test group C  Specification  Tested number of positions  nsulation resistance  Specification  Insulation resistance, neighboring positions  Temperature cycles  Specification  Result  Specification  Result  In 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

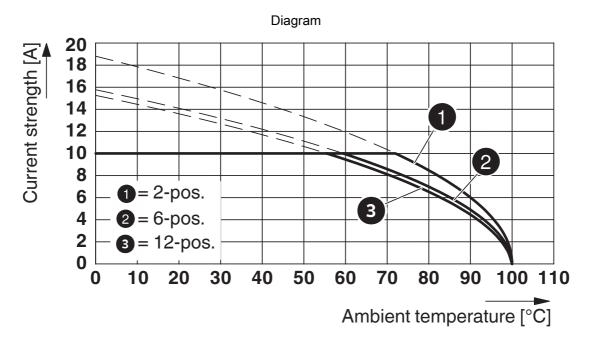
Type of packaging	packed in cardboard



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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/1038094

c <b>91</b> 2 us	cULus Recognized Approval ID: E60425-20030211				
		Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
В					
		300 V	7 A	26 - 14	-
D					
		300 V	7 A	26 - 14	-



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## Classifications

### **ECLASS**

	ECLASS-13.0	27460202			
	ECLASS-15.0	27460202			
ETIM					
	ETIM 9.0	EC002638			
UNSPSC					
	UNSPSC 21.0	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%
EF3.0 Climate Change	
CO2e kg	0.145 kg CO2e

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