#### 1725549

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PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: green, nominal current: 14 A, rated voltage (III/2): 400 V, contact surface: Sn, contact connection type: Socket, number of potentials: 6, number of rows: 1, number of positions: 6, number of connections: 12, product range: PTDA 2,5/..-PH, pitch: 5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 45 °, 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
- · Potentials can be easily looped through ideal for BUS applications
- · Quick and convenient testing using integrated test option
- · Rounded type for individual device design

### Commercial data

Item number	1725549
Packing unit	100 рс
Minimum order quantity	100 pc
Note	Made to order (non-returnable)
Sales key	AA03
Product key	AACFPA
Catalog page	Page 409 (C-1-2013)
GTIN	4046356129794
Weight per piece (including packing)	10.45 g
Weight per piece (excluding packing)	10.352 g
Customs tariff number	85366990
Country of origin	PL



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### Technical data

#### Product properties

Product type	PCB connector
Product family	PTDA 2,5/PH
Product line	COMBICON Connectors M
Туре	Plug for pin strip
Number of positions	6
Pitch	5 mm
Number of connections	12
Number of rows	1
Number of potentials	6
Mounting flange	without
Data management status	
Article revision	03

### **Electrical properties**

Nominal current I <sub>N</sub>	13.5 A
Nominal voltage U <sub>N</sub>	400 V
Contact resistance	1.5 mΩ
Rated voltage (III/3)	320 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	2.5 mm <sup>2</sup>
Contact connection type	Socket
Interlock	
Locking type	without
Mounting flange	without
Conductor connection	
Connection method	Push-in spring connection
Conductor/PCB connection direction	45 °
Conductor cross section rigid	0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup>
Conductor cross section flexible	0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup>

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Conductor cross section AWG	24 12
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm <sup>2</sup> 2.5 mm <sup>2</sup>
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 1 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 1 mm²
Stripping length	10 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	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 w
Pitch	5 mm
Width [w]	31.4 mm
Height [h]	16 mm
Length [I]	20 mm

### Notes

Note on application	Maximum permissible outside diameter of the wire insulation ≤3.
	5 mm

#### Mechanical tests



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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	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.	3 N
Resistance of inscriptions	
Specification	IEC 60068-2-70:1995-12
Result	Test passed
Visual 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 60068-2-6:1995-03
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Acceleration	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h



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est directions	X-, Y- and Z-axis
urability test	
Specification	IEC 60512-5:1992-08
Impulse withstand voltage at sea level	4.8 kV
Contact resistance R <sub>1</sub>	1.5 mΩ
Contact resistance R <sub>2</sub>	1.6 mΩ
Insertion/withdrawal cycles	10
limatic test	
Specification	ISO 6988:1985-02
Corrosive stress	$0.2 \text{ dm}^3 \text{ SO}_2 \text{ on } 300 \text{ dm}^3/40 \text{ °C/1 cycle}$
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)
Ambient temperature (storage/transport)	-40 °C 70 °C
Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 100 °C
nermal test   Test group C	IEC 60512-5-1:2002-02
ctrical tests hermal test   Test group C Specification Tested number of positions	
nermal test   Test group C Specification Tested number of positions	IEC 60512-5-1:2002-02 16
nermal test   Test group C Specification Tested number of positions sulation resistance	16
nermal test   Test group C Specification Tested number of positions sulation resistance Specification	16 IEC 60512-3-1:2002-02
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nermal test   Test group C Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions	16 IEC 60512-3-1:2002-02
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nermal test   Test group C Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions emperature cycles Specification Result	16 IEC 60512-3-1:2002-02 10 <sup>12</sup> Ω IEC 60999-1:1999-11
eermal test   Test group C Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions emperature cycles Specification Result	16 IEC 60512-3-1:2002-02 10 <sup>12</sup> Ω IEC 60999-1:1999-11
nermal test   Test group C Specification Tested number of positions sulation resistance Specification Insulation resistance, neighboring positions emperature cycles Specification Result	16 IEC 60512-3-1:2002-02 10 <sup>12</sup> Ω IEC 60999-1:1999-11 Test passed
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	16   IEC 60512-3-1:2002-02   10 <sup>12</sup> Ω   IEC 60999-1:1999-11   Test passed   IEC 60664-1:2007-04
eermal 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 Insulating material group	16   IEC 60512-3-1:2002-02   10 <sup>12</sup> Ω   IEC 60999-1:1999-11   Test passed   IEC 60664-1:2007-04   I
hermal 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 Insulating material group Comparative tracking index (IEC 60112)	16   IEC 60512-3-1:2002-02   10 <sup>12</sup> Ω   IEC 60999-1:1999-11   Test passed   IEC 60664-1:2007-04   I   CTI 600
hermal 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 Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3)	16   IEC 60512-3-1:2002-02   10 <sup>12</sup> Ω   IEC 60999-1:1999-11   Test passed   IEC 60664-1:2007-04   I   CTI 600   320 V
hermal test   Test group C Specification Tested number of positions sulation 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)	16   IEC 60512-3-1:2002-02   10 <sup>12</sup> Ω   IEC 60999-1:1999-11   Test passed   IEC 60664-1:2007-04   I   CTI 600   320 V   4 kV
hermal test   Test group C Specification Tested number of positions asulation resistance Specification Insulation resistance, neighboring positions emperature cycles Specification Result r 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)	16   IEC 60512-3-1:2002-02   10 <sup>12</sup> Ω   IEC 60999-1:1999-11   Test passed   IEC 60664-1:2007-04   I   CTI 600   320 V   4 kV   3 mm
hermal test   Test group C Specification Tested number of positions sulation 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) minimum clearance value - non-homogenous field (III/3)	16   IEC 60512-3-1:2002-02   10 <sup>12</sup> Ω   IEC 60999-1:1999-11   Test passed   IEC 60664-1:2007-04   I   CTI 600   320 V   4 kV   3 mm   4 mm
hermal 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 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)	16   IEC 60512-3-1:2002-02   10 <sup>12</sup> Ω   IEC 60999-1:1999-11   Test passed   IEC 60664-1:2007-04   I   CTI 600   320 V   4 kV   3 mm   4 mm   400 V



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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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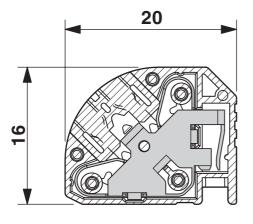
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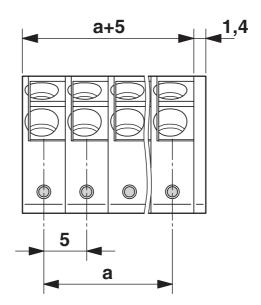
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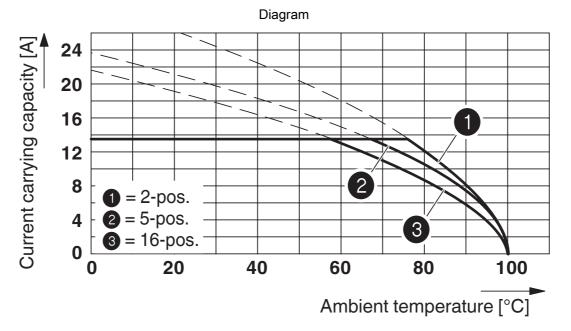
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### Drawings

Dimensional drawing







Type: PTDA 2,5/...-PH-5,0 with PST 1,3/...-5,0





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### Approvals

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	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	13.5 A	24 - 14	-		
Use group C						
	150 V	13.5 A	24 - 14	-		
Use group D						
	300 V	10 A	24 - 14	-		



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### Classifications

#### ECLASS

ECLASS-11.0	27460202
ECLASS-12.0	27460202
ECLASS-13.0	27460202

### ETIM

	ETIM 9.0	EC002638		
UN	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%

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