

1755596

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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: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: PT 1,5/..-PH, pitch: 5 mm, connection method: Screw connection with tension sleeve, 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

Commercial data

Item number	1755596
Packing unit	250 pc
Minimum order quantity	250 pc
Sales key	AA02
Product key	AABAJA
Catalog page	Page 425 (C-1-2013)
GTIN	4046356334136
Weight per piece (including packing)	3.56 g
Weight per piece (excluding packing)	3.56 g
Customs tariff number	85366990
Country of origin	CN



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Technical data

Product properties

Туре	Plug for pin strip
Product line	COMBICON Connectors S
Product type	PCB connector
Product family	PT 1,5/PH
Number of positions	3
Pitch	5 mm
Number of connections	3
Number of rows	1
Mounting flange	without
Number of potentials	3

Electrical properties

Nominal current I _N	10 A
Nominal voltage U _N	400 V
Degree of pollution	3
Contact resistance	2.2 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 mm²
Contact connection type	Socket

Interlock

Locking type	without
Mounting flange	without

Conductor connection

Connection method	Screw connection with tension sleeve
Conductor/PCB connection direction	0 °
Conductor cross section rigid	0.2 mm ² 2.5 mm ²
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section AWG	26 12
Conductor cross section flexible, with ferrule without plastic	0.25 mm² 1 mm²



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sleeve	
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 1 mm²
Stripping length	6 mm
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]	15 mm
Height [h]	13.15 mm
Length [I]	12.2 mm

Mounting

Drive form screw head	Slotted Phillips recess (H1L)
Drive form screw head	Slotted Phillips recess (H1L)

Mechanical tests

Test for conductor damage and slackening

rost for contractor durinage and chackering		
	Specification	IEC 60999-1:1999-11



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Result	Test passed		
Pull-out test			
Specification	IEC 60999-1:1999-11		
Conductor cross section/conductor type/tractive force setpoint/actual value	0.2 mm² / solid / > 10 N		
	0.2 mm² / flexible / > 10 N		
	2.5 mm² / solid / > 50 N		
	2.5 mm² / flexible / > 50 N		
nsertion and withdrawal forces			
Result	Test passed		
No. of cycles	10		
Insertion strength per pos. approx.	4.5 N 5.5 N		
Withdraw strength per pos. approx.			
Forque test			
Specification	IEC 60999-1:1999-11		
Resistance of inscriptions			
Specification	IEC 60068-2-70:1995-12		
Result	Test passed		
/isual inspection			
Specification	IEC 60512-1-1:2002-02		
Result	Test passed		
Dimension check			
Specification	IEC 60512-1-2:2002-02		
Result	Test passed		

E

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)
Sweep speed	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h

Durability test

Specification	IEC 60512-5:1992-08
Impulse withstand voltage at sea level	4.8 kV
Contact resistance R ₁	$2.2\ m\Omega$
Contact resistance R ₂	$2.4~\text{m}\Omega$
Insertion/withdrawal cycles	10

Climatic test



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Type of packaging

pecification	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	2.21 kV
bient 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
trical tests	
ermal test Test group C	
Specification	IEC 60512-5-1:2002-02
Tested number of positions	16
ulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	1 GΩ
clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
minimum clearance value - non-homogenous field (III/3)	3 mm
minimum creepage distance (III/3)	3.2 mm
Rated insulation voltage (III/2)	400 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
	630 V
Rated insulation voltage (II/2)	
Rated insulation voltage (II/2) Rated surge voltage (II/2)	4 kV
	4 kV 3 mm

packed in cardboard

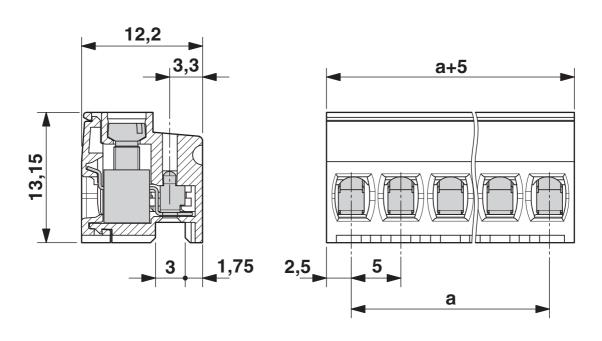
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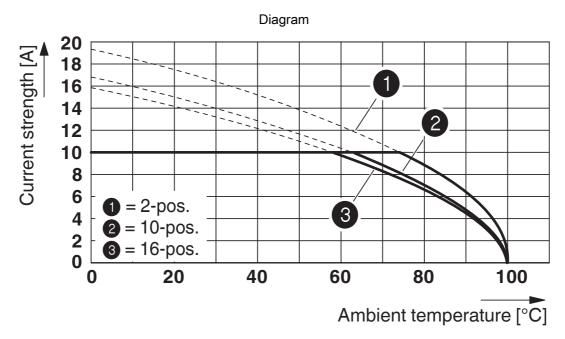
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Drawings

Dimensional drawing





Derating curve for: PT 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/1755596

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	10 A	28 - 14	-
Use group D				
	300 V	10 A	28 - 14	-

VDE Zeichengenehmigung Approval ID: 40044443				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	320 V	10 A	-	0.2 - 1.5



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Classifications

UNSPSC 21.0

ECLASS

27460202		
27460202		
27460202		
ETIM		
EC002638		
UNSPSC		

39121400



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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com