

PST 1,0/ 2-5,75 - Pin strip

1574198

<https://www.phoenixcontact.com/us/products/1574198>



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SIZE



0,5 mm²



THR



BOX



Pin strip, nominal cross section: 0.5 mm², color: black, nominal current: 6 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Pin, number of potentials: 2, number of rows: 1, number of positions: 2, product range: PST 1,0/...-V, pitch: 5.75 mm, mounting: THR soldering / wave soldering, pin layout: Linear pinning, solder pin [P]: 2.1 mm, plug-in system: COMBICON PST 1,0, locking: without, type of packaging: packed in cardboard

Your advantages

- Suitable for wave and reflow soldering processes
- Optimum pin geometry for all COMBICON pin strip connectors

Commercial data

Item number	1574198
Packing unit	500 pc
Minimum order quantity	500 pc
Sales key	AA02
Product key	AABTOA
GTIN	4067923062474
Weight per piece (including packing)	0.217 g
Weight per piece (excluding packing)	0.217 g
Customs tariff number	85366930
Country of origin	CN

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Technical data

Product properties

Product type	Pin strip
Product family	PST 1,0/..-V
Product line	COMBICON Connectors S
Number of positions	2
Pitch	5.75 mm
Number of rows	1
Number of potentials	2
Pin layout	Linear pinning

Electrical properties

Properties

Nominal current I_N	6 A
Nominal voltage U_N	320 V
Contact resistance	1.4 mΩ
Rated voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
Rated voltage (II/2)	400 V
Rated surge voltage (II/2)	4 kV

Mounting

Mounting type	THR soldering / wave soldering
Pin layout	Linear pinning

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	tin-plated
Metal surface contact area (top layer)	Tin (2 μm - 5 μm Sn)
Metal surface contact area (middle layer)	Nickel (1 μm - 3 μm Ni)
Metal surface soldering area (top layer)	Tin (2 μm - 5 μm Sn)
Metal surface soldering area (middle layer)	Nickel (1 μm - 3 μm Ni)

Material data - housing

Color (Housing)	black (9005)
Insulating material	LCP
Insulating material group	IIIa

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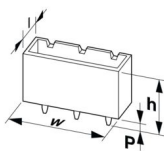
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CTI according to IEC 60112	$\geq 175 < 400$
Flammability rating according to UL 94	V0

Dimensions

Dimensional drawing	
Pitch	3.5 mm
Width [w]	8.55 mm
Height [h]	12 mm
Length [l]	2.8 mm
Installed height	9.9 mm
Solder pin length [P]	2.1 mm

PCB design

Hole diameter	1.2 mm
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Mechanical tests

Visual inspection

Specification	IEC 60512-1-1:2002-02
Result	Test passed

Dimension check

Specification	IEC 60512-1-2:2002-02
Result	Test passed

Contact holder in insert

Specification	IEC 60512-15-1:2008-05
Contact holder in insert Requirements >20 N	Test passed

Resistance of inscriptions

Specification	IEC 60068-2-70:1995-12
Result	Test passed

Electrical tests

Thermal test | Test group C

Specification	IEC 60512-5-1:2002-02
Tested number of positions	2

Insulation resistance

Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ

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Air clearances and creepage distances |

Specification	IEC 60664-1:2020-05
Insulating material group	IIIa
Comparative tracking index (IEC 60112)	CTI ≥ 175 to < 400
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)	4 mm
Rated insulation voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
minimum clearance value - non-homogenous field (III/2)	3 mm
minimum creepage distance (III/2)	3.2 mm
Rated insulation voltage (II/2)	400 V
Rated surge voltage (II/2)	4 kV
minimum clearance value - non-homogenous field (II/2)	3 mm
minimum creepage distance (II/2)	4 mm

Environmental and real-life conditions

Durability test

Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	4.8 kV
Contact resistance R_1	1.4 m Ω
Contact resistance R_2	1.6 m Ω
Insertion/withdrawal cycles	25
Insulation resistance, neighboring positions	> 5 M Ω

Climatic test

Specification	EN ISO 22479:2022-06
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

Glow-wire test

Specification	IEC 60695-2-11:2021-10
Temperature	850 °C
Time of exposure	30 s

Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 70 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-60 °C ... 100 °C (dependent on the derating curve)

Ambient conditions

Ambient temperature (operation)	-60 °C ... 100 °C (dependent on the derating curve)
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Ambient temperature (storage/transport)	-40 °C ... 70 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C

Packaging specifications

Type of packaging	packed in cardboard
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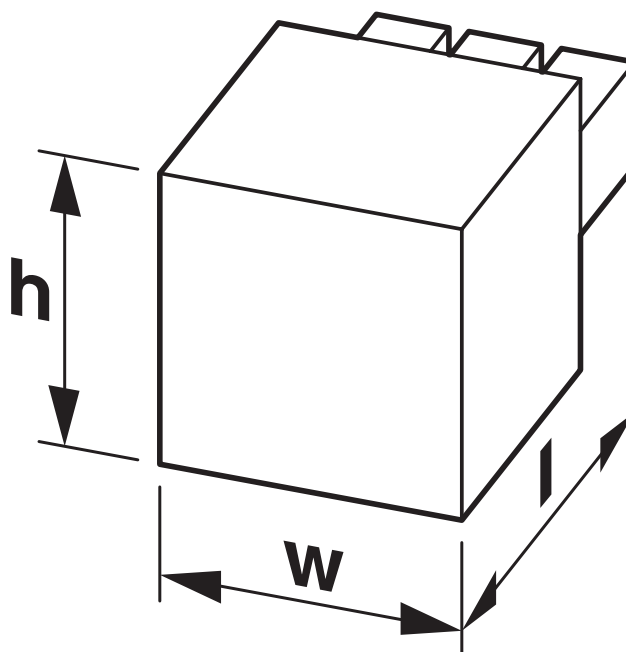
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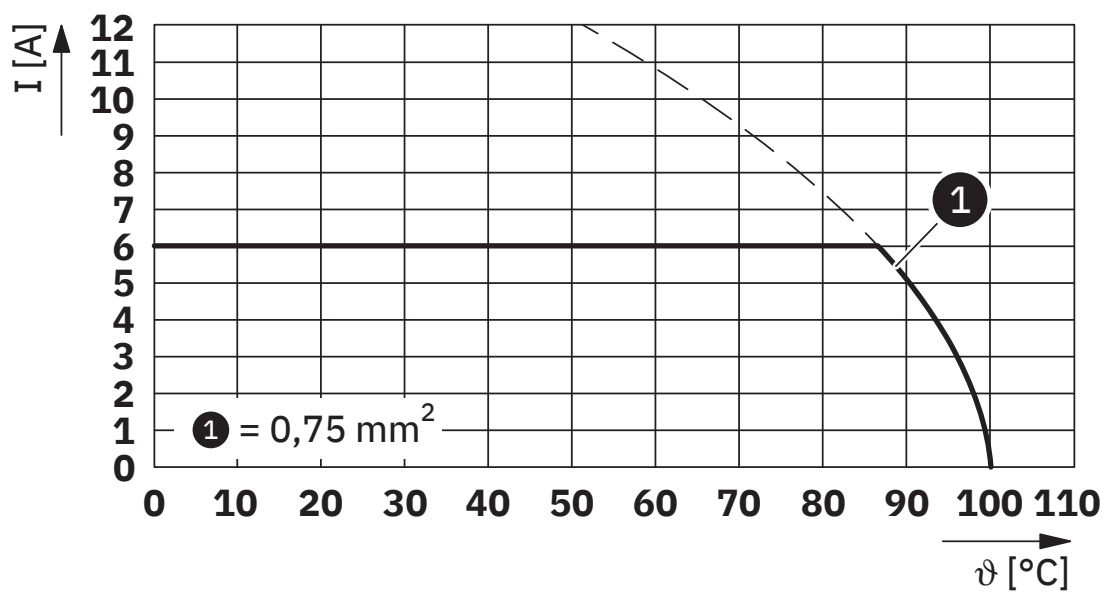
Drawings

Dimensional drawing



Schematic representation – for additional information, see product range drawing in the Download Center

Diagram



Type: PTS 0,5/...-PH-5,75 with PST 1,0/...-5,75

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Approvals

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 VDE approval of drawings Approval ID: 40058359				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	320 V	6 A	-	-

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Classifications

ECLASS

ECLASS-13.0	27460201
ECLASS-15.0	27460201

ETIM

ETIM 10.0	EC002637
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com