

Data sheet

2024-09-17
Product version 00
Document revision 00

Item No.: 1574200

Type: PST 1,0/ 2-5,75 R32

Pin strip



1 Main features



- | | | | |
|-------------------------|--------------------------------|------------------------|-----------------|
| • No. of pos. | 2 | • Nominal current | 6 A |
| • Nominal cross section | 0.5 mm ² | • Nominal voltage | 320 V |
| • Color | black (RAL9005) | • Connection direction | 90 ° |
| • Pitch | 5.75 mm | • Type of packaging | 32 mm wide tape |
| • Mounting type | THR soldering / wave soldering | | |

2 Your advantages

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



Make sure you always use the latest documentation.

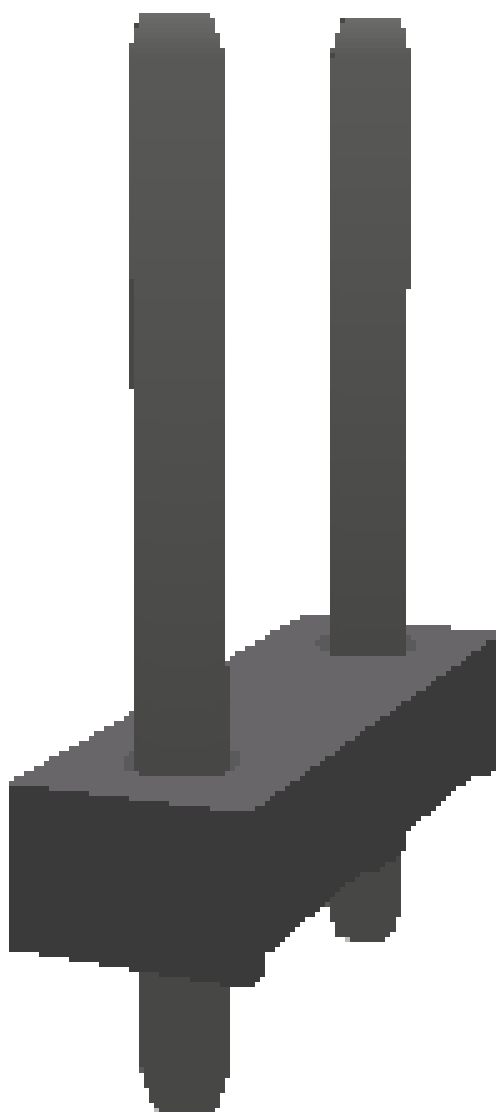
It can be downloaded at: phoenixcontact.com/product/1574200

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4 3D model in PDF can be activated (Acrobat Reader only)



1574200 PST 1,0/ 2-5,75 R32**5 General Technical Data****5.1 item properties**

Item no.	1574200
Type	PST 1,0/ 2-5,75 R32
Connector system	COMBICON PST 1,0
Product type	Pin strip
Contact connection type	Pin
Range of articles	PST 1,0/...-V
Pitch	3.5 mm
Number of positions	2
Number of rows	1
Number of potentials	2
Connection direction of the connector to the PCB	90 °
Pin layout	Linear pinning

1574200 PST 1,0/ 2-5,75 R32**6 Mounting****6.1 Flange mounting**

Type of locking	without
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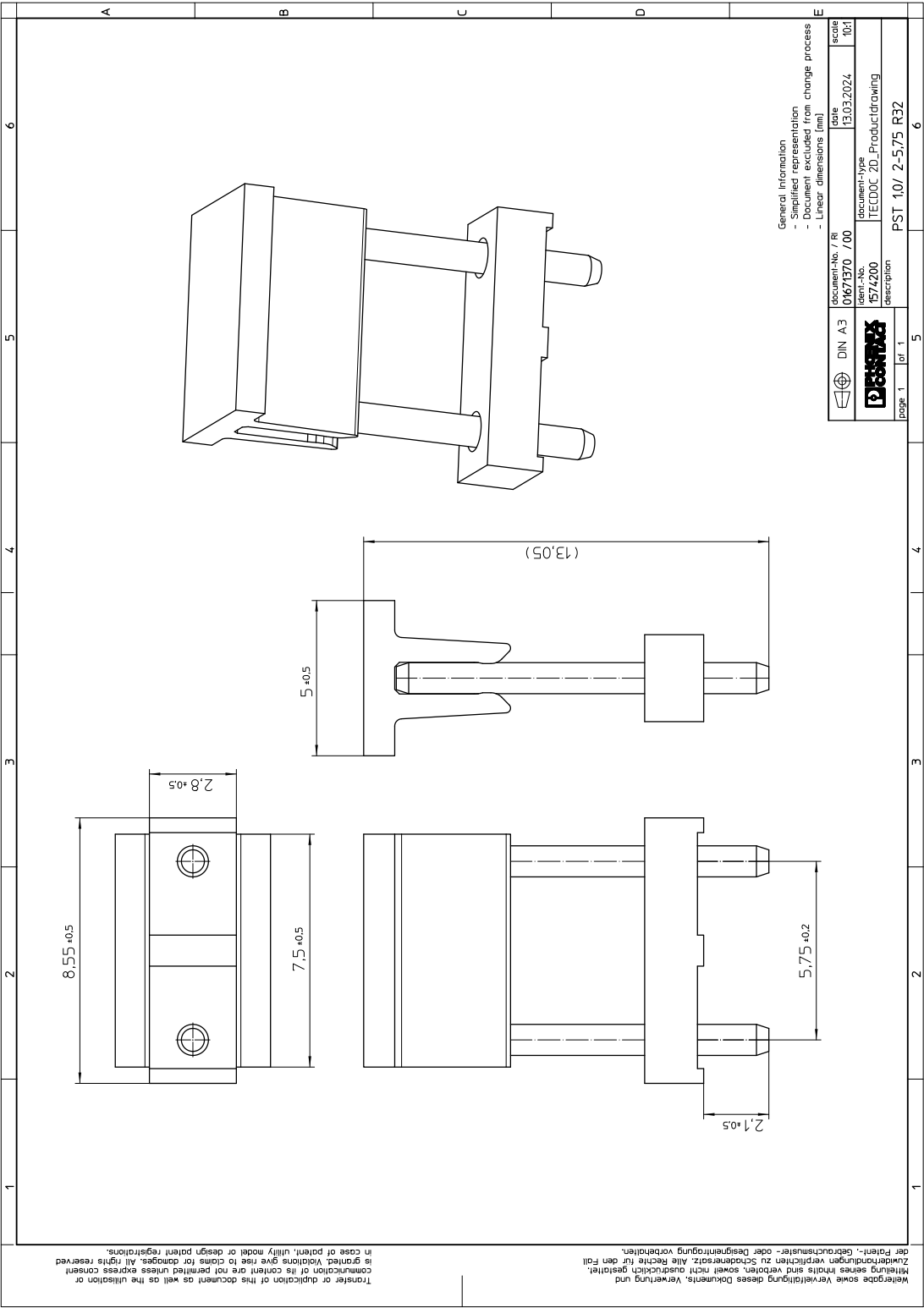
7 Material properties**7.1 Material of metal parts**

Note	WEEE/RoHS-compliant, whisker-free acc. to IEC 60068-2-82/JEDEC JESD 201
Contact material	Cu alloy
Surface contact area	Nickel (1 - 3 µm Ni) , Tin (2 - 5 µm Sn)
Soldering area surface	Nickel (1 - 3 µm Ni) , Tin (2 - 5 µm Sn)
Surface characteristics	tin-plated
Insulating material data	Housing
Color	black (RAL 9005)
Insulating material	LCP
Insulating material group	IIIa
CTI according to IEC 60112	≥175 < 400
Flammability rating according to UL 94	V0

1574200 PST 1,0/ 2-5,75 R32**8 Dimensions****8.1 Dimensions for the product**

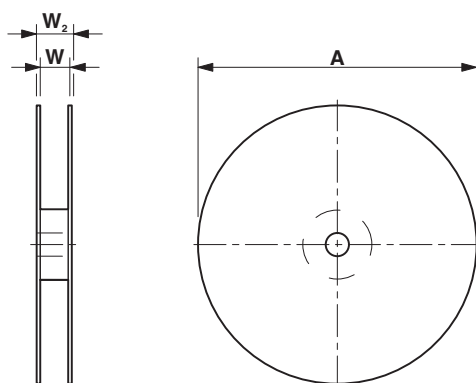
Length	2.8 mm
Width	8.55 mm
Height (without solder pin)	9.9 mm
Total height	12 mm
Solder pin [P]	2.1 mm

9 Product drawing



1574200 PST 1,0/ 2-5,75 R32**10 Application****11 Packaging specifications**

Type of packaging	32 mm wide tape
Packing unit	350
Outer packaging type	Transparent-Bag
ESD level	(D) electrostatically conductive
Specification	DIN EN 61340-5-1 (VDE 0300-5-1): 2008-07
[W] tape width	32 mm
[A] coil diameter	330 mm
[W2] coil overall dimension	38.4 mm
Number of products per coil	350

**11.1 Temperature limit values**

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)

1574200 PST 1,0/ 2-5,75 R32**12 Mechanical tests****12.1 Visual examination**

Specification	IEC 61984:2008-10
Visual examination	Test passed
Specification	IEC 60512-1-1:2002-02

12.2 Dimensional test

Dimensional test	Test passed
Specification	IEC 60512-1-2:2002-02

12.3 Resistance of marking

Resistance of marking	Test passed
Specification	IEC 60068-2-70:1995-12

12.4 Polarization and coding

Polarization and coding	
Specification	
Test force	

12.5 Contact retention in insert

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

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13 Insertion and withdrawal forces

1574200 PST 1,0/ 2-5,75 R32**14 Electrical tests**

Rated current / conductor cross section	6 A / 0.5 mm ²
Rated insulation voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
Contact resistance	1.4 mΩ
Degree of pollution	2

14.1 Air and creepage distances

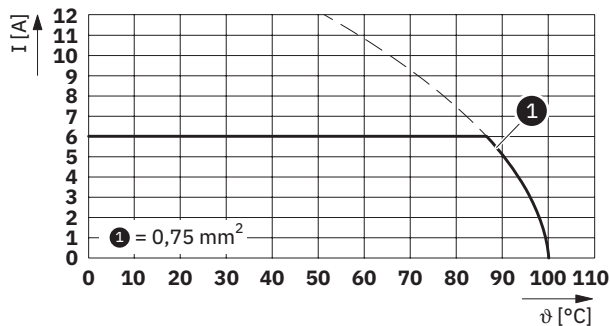
Component	Pin strip		
Specification	IEC 60664-1:2020-05		
Mains type	unearthed mains		
Insulating material group	IIIa		
Comparative tracking index (IEC 60112)	CTI ≥175 to <400		
Rated insulation voltage	250 V	320 V	400 V
Rated surge voltage	4 kV	4 kV	4 kV
Degree of pollution	3	2	2
Overvoltage category	III	III	II
Minimum clearance case A (inhomogeneous field)	3 mm	3 mm	3 mm
Minimum value of the creepage path requirement in acc. with table	4 mm	3.2 mm	4 mm

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15 Current carrying capacity/derating curves

Specification	IEC 61984:2008-10
Note	Representation based on IEC 60512-5-2:2002-02
Note	For conductor cross section, see diagram
Reduction factor	0.8
Conductor cross section	0.5 mm ²

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



15.1 Insulation resistance

Specification	IEC 60512-3-1:2002-02
Result	Test passed
Insulation resistance, neighboring positions	> 5 M Ω

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16 Approvals / Certificates

VDE Zeichengenehmigung 	Voltage [V]	Current [A]	Cross section [AWG]	Cross section [mm ²]
	320 V	6 A	-	-

1574200 PST 1,0/ 2-5,75 R32**17 Commercial Data**

Item no.	1574200
Type	PST 1,0/ 2-5,75 R32
Packing unit	350
Net weight	1.4 g
GTIN	4067923063020
	Information that applies locally, see link on page 1

18 Accessories

Description	Item No.	Type
	1574299	PTS 0,5/ 2-PH-5,75 GY35YE KNX
	1574300	PTS 0,5/ 2-PH-5,75 BKRD KNX

1574200 PST 1,0/ 2-5,75 R32**19 Combination tests****PST 1,0/-V**

IEC 61984

Mechanical tests (A)Contact holder in insert
Requirements >20 N**PTS 0,5/-PH**

IEC 61984

Test passed

Durability tests (B)Contact resistance R_1 1st level

1.4 mΩ

Contact resistance R_1 2nd level

Insertion/withdrawal cycles

25

Contact resistance R_2

1.6 mΩ

Rated impulse voltage at sea level
Voltage waveform $\geq (1.2/50 \mu s)$

4.8 kV

Power-frequency withstand voltage
Voltage waveform $\geq (50/60 \text{ Hz})$

2.21 kV

Insulation resistance
Requirements > 5 MΩ

> 5 MΩ

Thermal tests (C)

Tested number of positions

2

Tested conductor cross section

0.75 mm²

Test current

6 A

Upper limiting temperature
Requirements < 100°C

Test passed

Climatic tests (D)

Test sequence 1: low temperature storage

-60 °C/2 h

Test sequence 2: heat storage

100 °C/168 h

Test sequence 3: noxious gas storage

0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycleRated impulse voltage at sea level
Voltage waveform $\geq (1.2/50 \mu s)$

4.8 kV

Power-frequency withstand voltage
Voltage waveform $\geq (50/60 \text{ Hz})$

2.21 kV

Environmental and endurance tests (E)

Specification

IEC 61984:2008-10

Degree of protection

Finger safety with IP20
test finger