

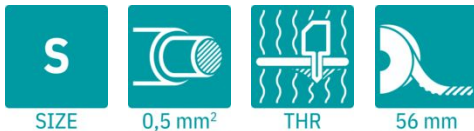
PST 1,0/ 5-3,5 R56 - Pin strip

1720259

<https://www.phoenixcontact.com/nl/products/1720259>



Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



The figure shows an 8-pos.
version of the item in tape-on-
reel packing

Pin strip, nominal cross section: 0.5 mm², color: black, nominal current: 8 A (depends on the plug used), rated voltage (III/2): 250 V, contact surface: Sn, contact connection type: Pin, number of potentials: 5, number of rows: 1, number of positions: 5, number of connections: 5, product range: PST 1,0/..-V, pitch: 3.5 mm, mounting: THR soldering / wave soldering, pin layout: Linear pinning, solder pin [P]: 3.8 mm, plug-in system: COMBICON PST 1,0, locking: without, mounting method: without, type of packaging: 56 mm wide tape, The maximum current depends on the plug used. The lower of the two current values apply for plug and pin strip. The pin strip is made of highly temperature resistant plastic and is thus suitable for the reflow process.

Your advantages

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

Commercial data

Item number	1720259
Packing unit	250 pc
Minimum order quantity	250 pc
Note	Made to order (non-returnable)
Sales key	AABTKA
Product key	AABTKA
GTIN	4046356115667
Weight per piece (including packing)	2,94 g
Weight per piece (excluding packing)	2,814 g
Customs tariff number	85366930
Country of origin	DE

PST 1,0/ 5-3,5 R56 - Pin strip

1720259

<https://www.phoenixcontact.com/nl/products/1720259>



Technical data

Product properties

Product family	PST 1,0/..-V
Product line	COMBICON Connectors S
Type	Pin strip
Number of positions	5
Pitch	3.5 mm
Number of connections	5
Number of rows	1
Number of potentials	5
Mounting type	without
Pin layout	Linear pinning

Electrical properties

Properties

Nominal current I_N	8 A (depends on the plug used)
Nominal voltage U_N	250 V
Contact resistance	1.8 mΩ
Rated voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	250 V
Rated surge voltage (III/2)	2.5 kV
Rated voltage (II/2)	250 V
Rated surge voltage (II/2)	2.5 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 (3 μm - 5 μm Sn)
Metal surface contact area (middle layer)	Nickel (1 μm - 3 μm Ni)
Metal surface soldering area (top layer)	Tin (3 μm - 5 μm Sn)
Metal surface soldering area (middle layer)	Nickel (1 μm - 3 μm Ni)

Material data - housing

Color (Housing)	black (9005)
-----------------	--------------

PST 1,0/ 5-3,5 R56 - Pin strip

1720259

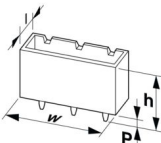
<https://www.phoenixcontact.com/nl/products/1720259>

Insulating material	PA
Insulating material group	IIIa
CTI according to IEC 60112	250
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

Notes

Note on application	Pick and place pads may protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled.
---------------------	---

Dimensions

Dimensional drawing	
Pitch	3.5 mm
Width [w]	17.1 mm
Height [h]	13 mm
Length [l]	2.8 mm
Installed height	9.2 mm
Solder pin length [P]	3.8 mm
Pin dimensions	ø 1 mm

PCB design

Pin spacing	3.50 mm
Hole diameter	1.2 mm

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

Insertion and withdrawal forces

Result	Test passed
No. of cycles	10
Insertion strength per pos. approx.	6 N

PST 1,0/ 5-3,5 R56 - Pin strip

1720259

<https://www.phoenixcontact.com/nl/products/1720259>



Withdraw strength per pos. approx.	5 N
------------------------------------	-----

Contact holder in insert

Specification	IEC 60512-8:1993-01
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	16

Insulation resistance

Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	$10^{12} \Omega$

Temperature cycles

Specification	IEC 60999-1:1999-11
Result	Test passed

Air clearances and creepage distances |

Specification	IEC 60664-1:2007-04
Insulating material group	IIIa
Comparative tracking index (IEC 60112)	CTI 250
Rated insulation voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
minimum clearance value - non-homogenous field (III/3)	1.5 mm
minimum creepage distance (III/3)	2.5 mm
Rated insulation voltage (III/2)	250 V
Rated surge voltage (III/2)	2.5 kV
minimum clearance value - non-homogenous field (III/2)	1.5 mm
minimum creepage distance (III/2)	2.5 mm
Rated insulation voltage (II/2)	250 V
Rated surge voltage (II/2)	2.5 kV
minimum clearance value - non-homogenous field (II/2)	1.5 mm
minimum creepage distance (II/2)	2.5 mm

Environmental and real-life conditions

Durability test

Specification	IEC 60512-5:1992-08
Impulse withstand voltage at sea level	2.95 kV
Contact resistance R_1	1.8 m Ω

PST 1,0/ 5-3,5 R56 - Pin strip

1720259

<https://www.phoenixcontact.com/nl/products/1720259>

Contact resistance R_2	1.9 m Ω
Insertion/withdrawal cycles	10

Climatic test

Specification	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	1.39 kV

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
Test directions	X-, Y- and Z-axis

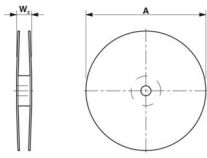
Ambient conditions

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

Ambient 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

Packaging specifications

Dimensional drawing	
Type of packaging	56 mm wide tape
[W] tape width	56 mm
[W2] coil overall dimension	≤ 62.4 mm
[A] coil diameter	≤ 330 mm
Outer packaging type	Transparent-Bag

PST 1,0/ 5-3,5 R56 - Pin strip

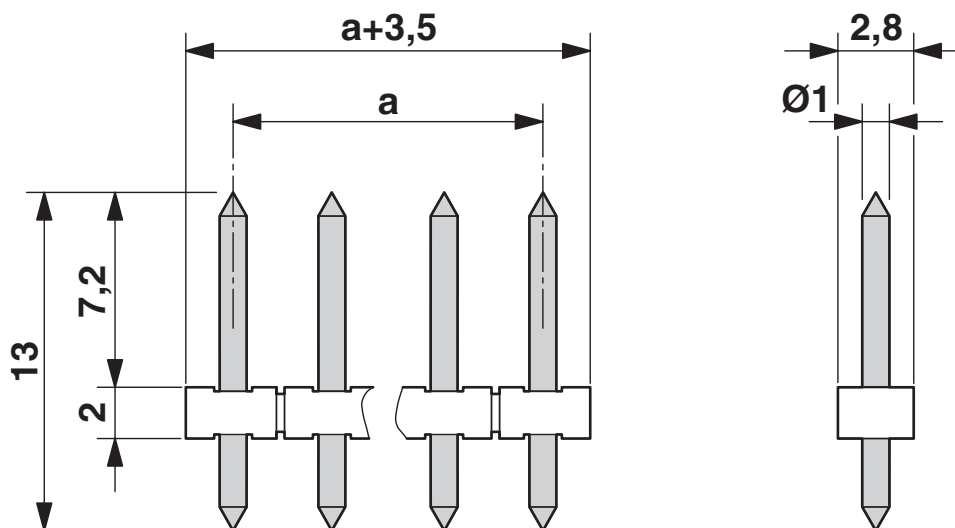
1720259

<https://www.phoenixcontact.com/nl/products/1720259>

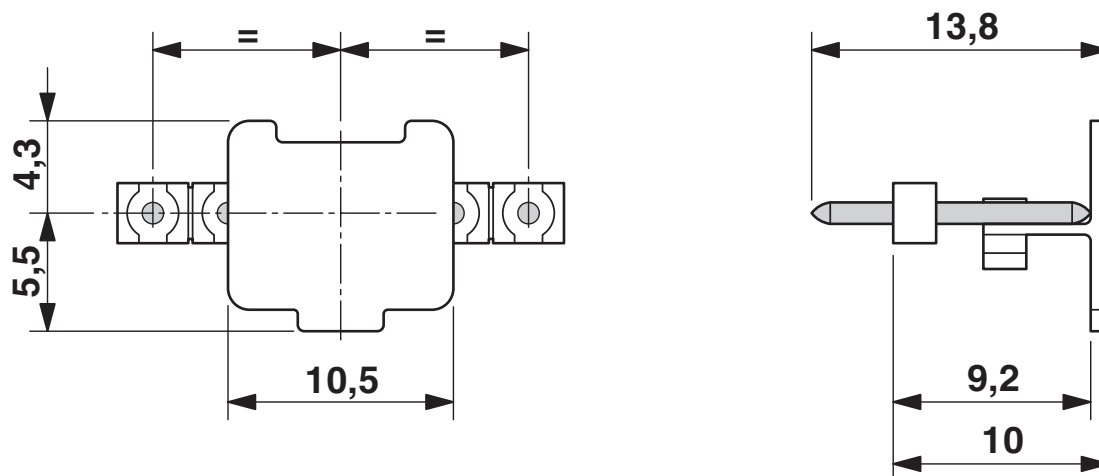


Drawings

Dimensional drawing



Dimensional drawing



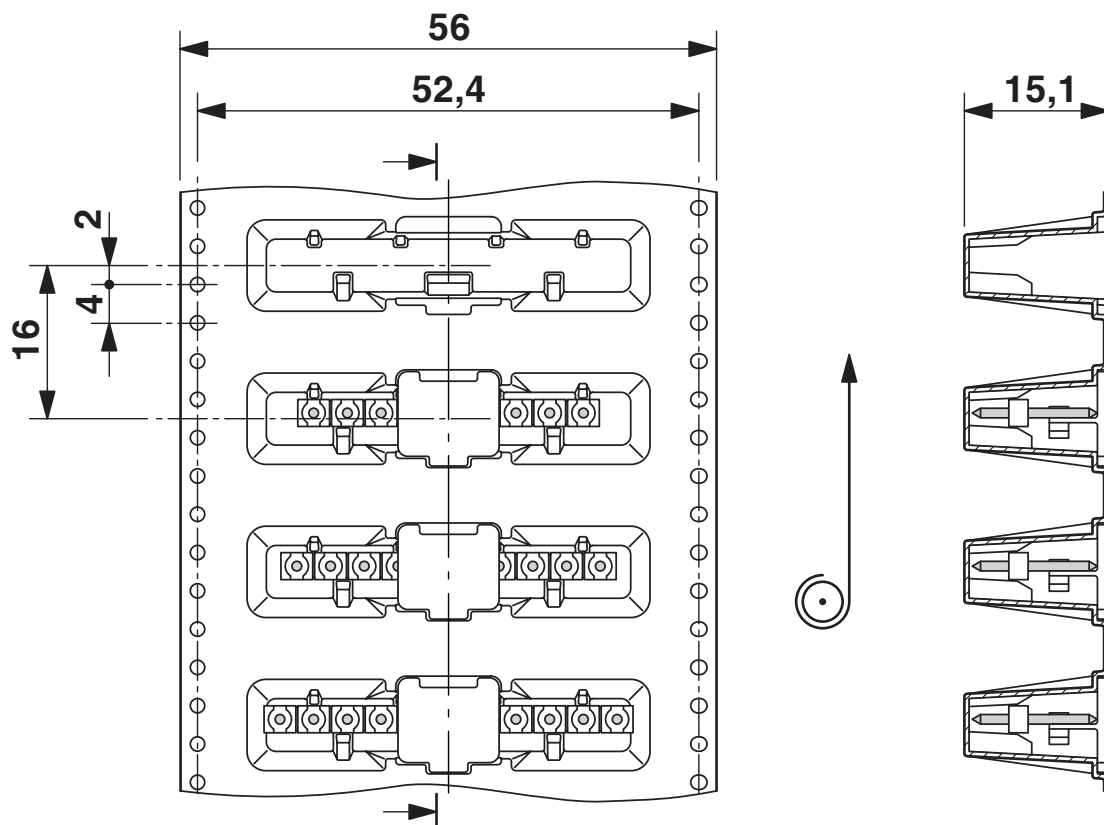
PST 1,0/ 5-3,5 R56 - Pin strip

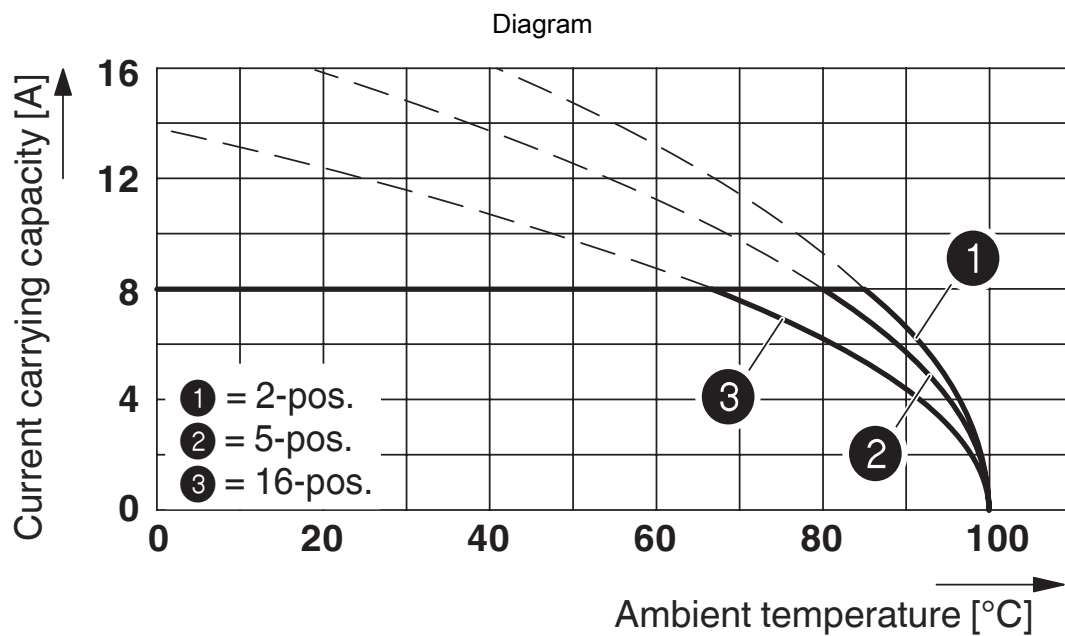
1720259

<https://www.phoenixcontact.com/nl/products/1720259>

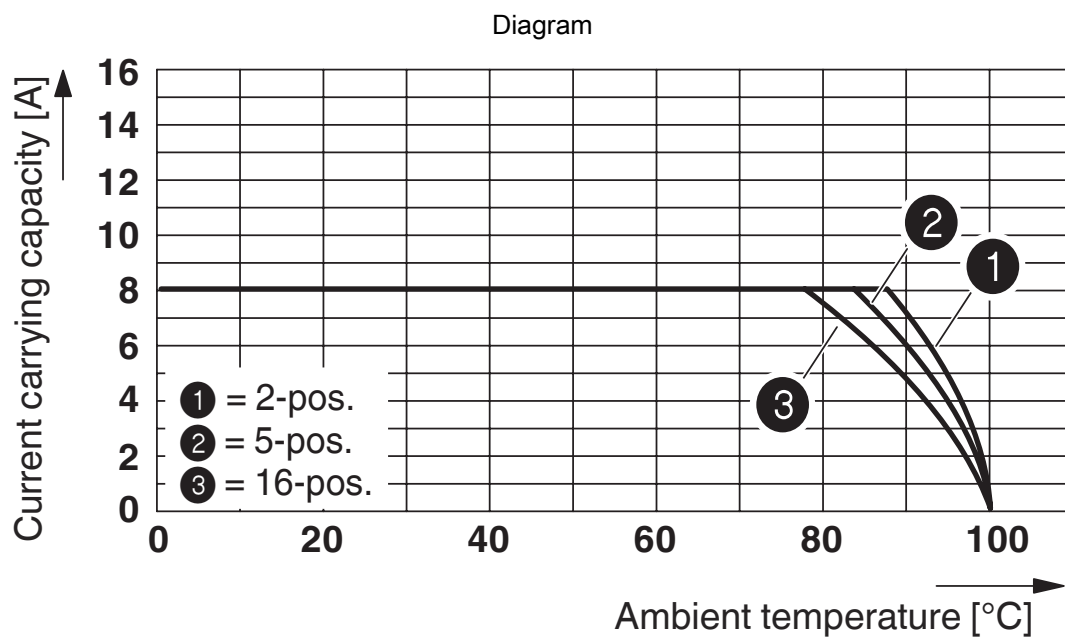


Dimensional drawing

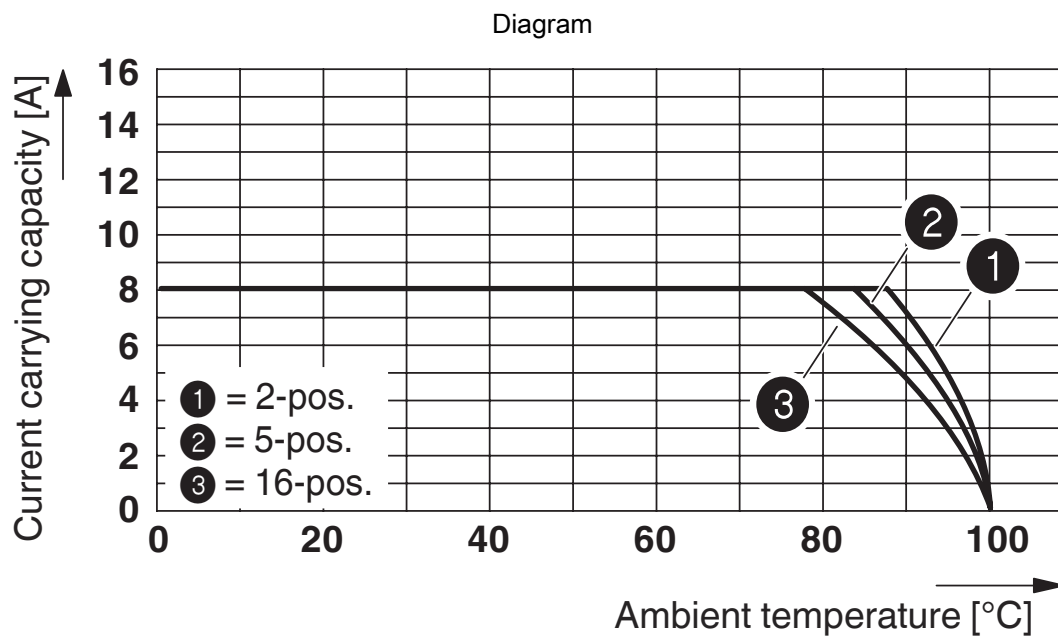




Derating curve for: PTDA 1,5/...-PH-3,5 with PST 1,0/...-3,5

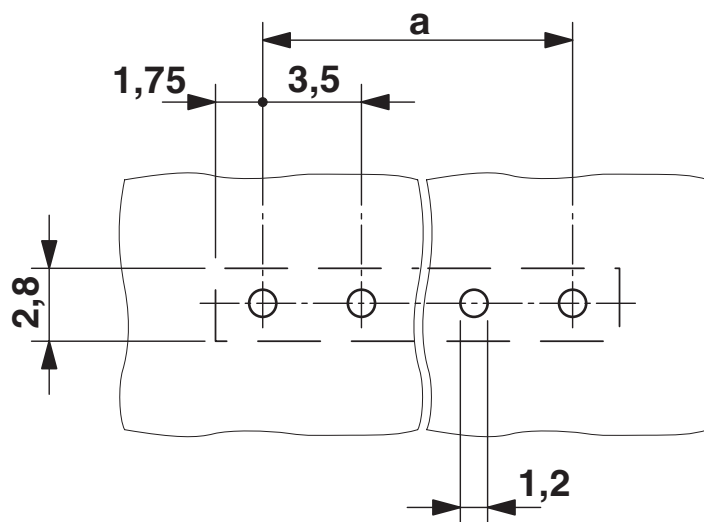


Type: PT 1,5/...-PH-3,5 with PST 1,0/...-3,5



Type: PT 1,5/...-PVH-3,5 with PST 1,0/...-3,5

Drilling plan/solder pad geometry



PST 1,0/ 5-3,5 R56 - Pin strip



1720259

<https://www.phoenixcontact.com/nl/products/1720259>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/nl/products/1720259>

 cULus Recognized Approval ID: E60425-20030211				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
B				
	300 V	10 A	-	-

 VDE approval of drawings Approval ID: 40055514				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	250 V	8 A	-	-

PST 1,0/ 5-3,5 R56 - Pin strip

1720259

<https://www.phoenixcontact.com/nl/products/1720259>



Classifications

ECLASS

ECLASS-13.0	27460201
ECLASS-15.0	27460201

ETIM

ETIM 10.0	EC002637
-----------	----------

UNSPSC

UNSPSC 21.0	39121400
-------------	----------

PST 1,0/ 5-3,5 R56 - Pin strip



1720259

<https://www.phoenixcontact.com/nl/products/1720259>

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%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT B.V.
Hengelder 56 6902 PA Zevenaar
Postbus 246 6900 AE Zevenaar
(0316) 59 17 20
sales@phoenixcontact.nl