

# Data sheet

Order No.: 1771088

Type: PTSM 0,5/ 8-2,5-H SMD R44

PCB terminal block, Reflow soldering, Push-in spring connection



The figure shows the 3-pos. version

## 1 Main features



- |                           |                           |                        |                     |
|---------------------------|---------------------------|------------------------|---------------------|
| • No. of pos.             | 8                         | • Nominal current      | 6 A                 |
| • Conductor cross section | 0.5 mm <sup>2</sup>       | • Nominal voltage      | 160 V               |
| • Color                   | black (9005)              | • Connection direction | 0 °                 |
| • Pitch                   | 2.5 mm                    | • Type of packaging    | packed in cardboard |
| • Connection method       | Push-in spring connection |                        |                     |

## 2 Your advantages

Time saving push-in connection, tools not required

Defined contact force ensures that contact remains stable over the long term

High current carrying capacity of 6 A in very compact dimensions

Designed for integration into the SMT soldering process

Additional solder anchors reduce the mechanical strain on the soldering spots



Make sure you always use the latest documentation.

It can be downloaded at: [phoenixcontact.net/product/1771088](https://phoenixcontact.net/product/1771088)

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



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### 5 General Technical Data

5.1 Item properties

5.2 Connection capacity

5.3 Connection capacity AWG

### 6 Material properties

6.1 Material of metal parts

6.2 Material of plastic parts

Housing

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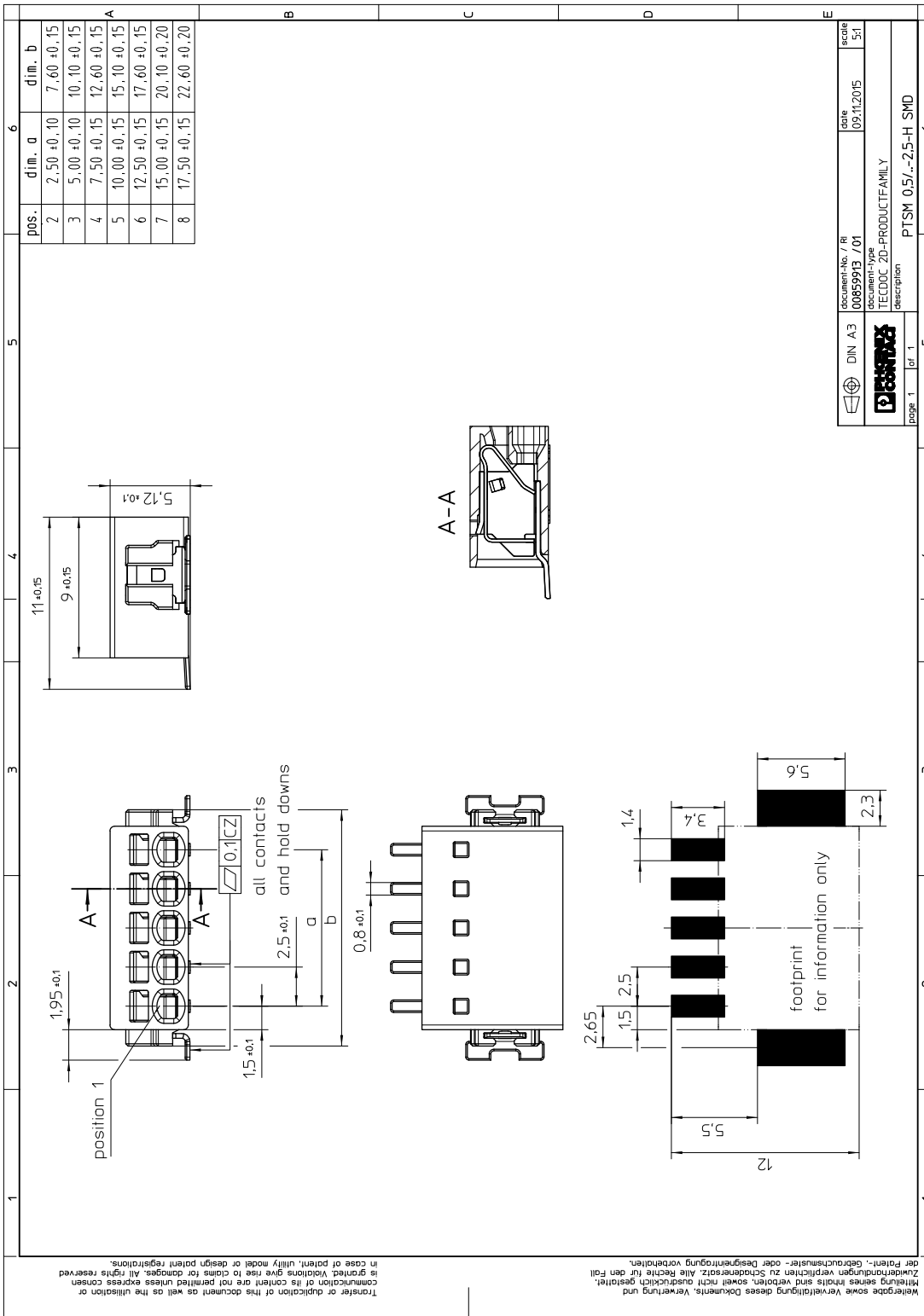
### 7 Dimensions

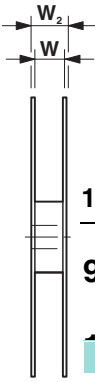
#### 7.1 Dimensions for the product



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8 Series drawing





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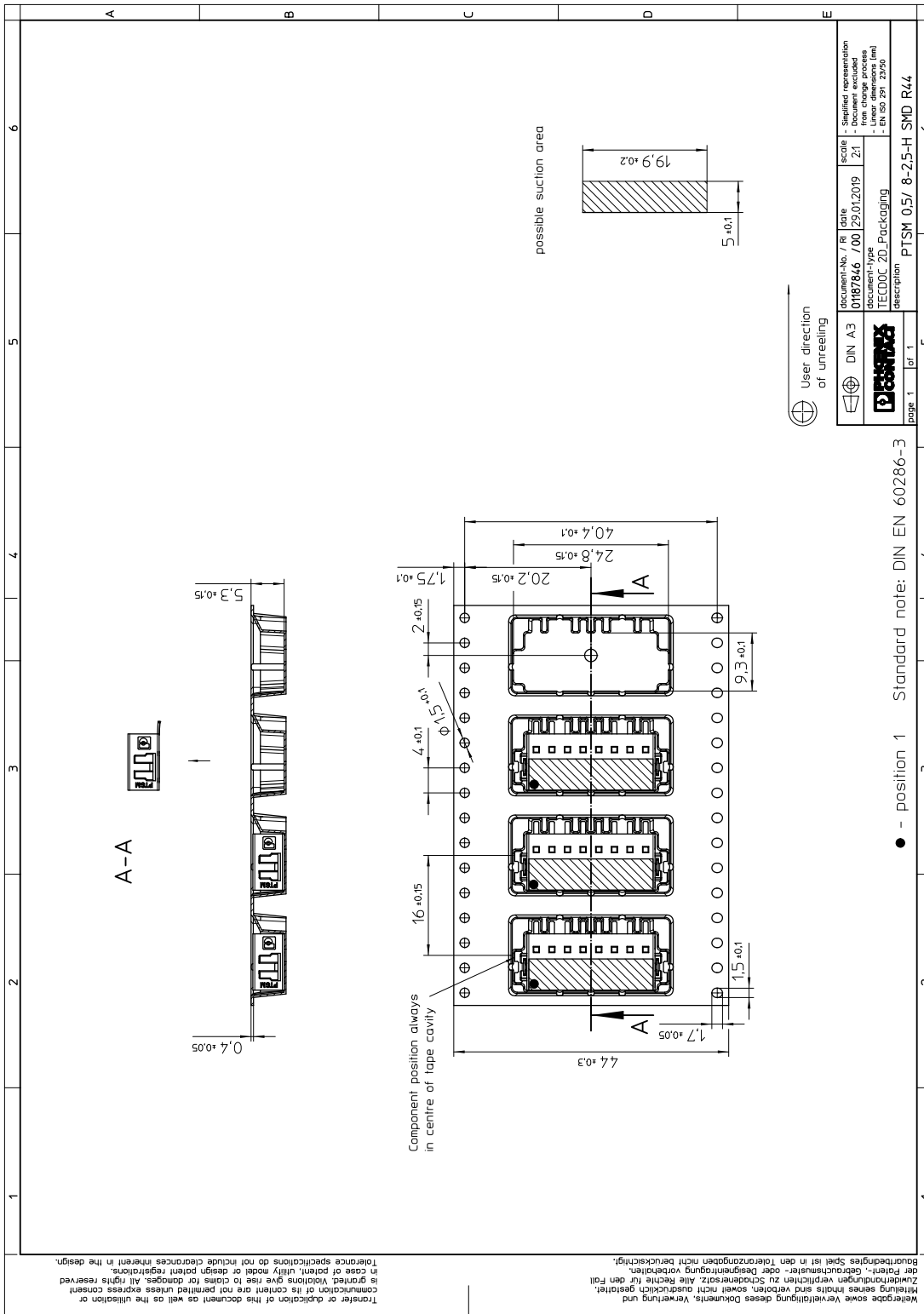
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9 Application

10 Dimensions

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## 11 Blister drawing





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### 11.1 Processing notes



### 11.2 Temperature distribution



## 12 Mechanical tests

### 12.1 Pull-out test

[Redacted]

### 12.2 Bend test

[Redacted]

### 12.3 Check for damage to conductor or loosening

[Redacted]

### 12.4 Electrical performance test

[Redacted]

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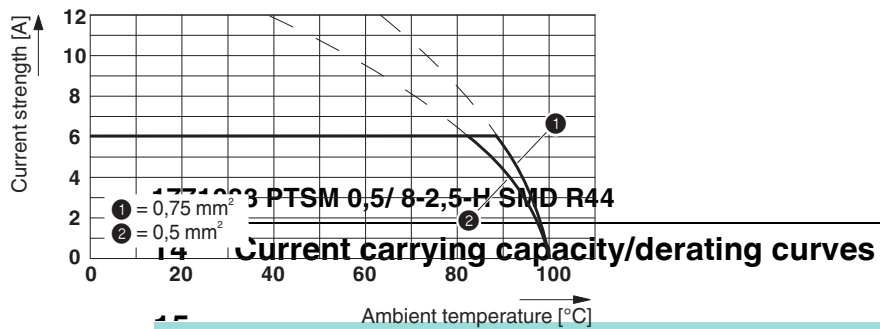
**13 Electrical tests**

13.1 Electrical data  
[Redacted]

13.2 Air and pressure distances  
[Redacted]

13.3 Temperature rise test  
[Redacted]

13.4 Storage temperature  
[Redacted]



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 Product version 00  
 Document revision 01

**Type: PTSM 0,5/...-2,5-H- SMD R44**  
**Tested in accordance with DIN EN 60512-5-2:2003-01**  
**Reduction factor = 1**  
**No. of positions: 5**

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**16 Environmental and durability tests**

16.1 Vibration test

16.2 Assessment of fire risk (plum wire test)

16.3 Protection against electric shock





16.4 Shock protection

16.5 Mechanical strength/tumbling barrel

16.6 Testing in a saturated atmosphere in the presence of sulfur dioxide

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**19 Approvals / Certificates**

 UL Recognized	Voltage [V]	Current [A]	Cross section [AWG]	Cross section [mm <sup>2</sup> ]
 EAC ENEC				
 VDE Zeichengenehmigung				
 cULus Recognized	Voltage [V]	Current [A]	Cross section [AWG]	Cross section [mm <sup>2</sup> ]

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Description	Order No.	Type
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