

Miniature circuit breaker 400 V 10kA, 2-pole, B, 100 A, D=70 mm



Model	
Product brand name	SENTRON
Product designation	Miniature circuit breaker
Design of the product	5SP Miniature circuit breakers
General technical data	
Number of poles	2
Number of poles / Note	2P
Tripping characteristic class	B
circuit-breaker / Design	5SP4
Mechanical service life (switching cycles) / typical	10 000
Overvoltage category	3
Voltage	
Insulation voltage	
• at AC / rated value	440 V
• with multi-phase operation / at AC / rated value	440 V
Supply voltage	
Type of voltage	AC
Current / at AC / rated value	100 A

Supply voltage / at AC / rated value	400 V
Supply voltage frequency / rated value	50 Hz
<b>Protection class</b>	
Protection class IP	IP20 with connected conductors, IP40 in the area of the handle with distribution cover
<b>Switching capacity</b>	
Switching capacity current	
<ul style="list-style-type: none"> <li>• acc. to EN 60898 / rated value</li> </ul>	10 kA
<b>Dissipation</b>	
Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	8 W
<b>Current</b>	
Tripping residual / rated value / derated current / at 40 Cel	95 A
<b>Product details</b>	
Product feature / Touch protection	Yes
Product component	
<ul style="list-style-type: none"> <li>• Tunnel terminals top</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Tunnel terminals bottom</li> </ul>	Yes
Product feature	
<ul style="list-style-type: none"> <li>• Properties for main switches in accordance with EN 60204-1</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• halogen-free</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• sealable</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• silicon-free</li> </ul>	Yes
Product extension / can be installed / supplementary devices	Yes
<b>Connections</b>	
<ul style="list-style-type: none"> <li>• Connectable conductor cross-section <ul style="list-style-type: none"> <li>— solid</li> <li>— stranded</li> </ul> </li> <li>• Connectable conductor cross-section / finely stranded / with core end processing</li> </ul>	25 ... 50 mm <sup>2</sup> 25 ... 50 mm <sup>2</sup> 25 ... 35 mm <sup>2</sup>
AWG number / as coded connectable conductor cross section	3 ... 1
Tightening torque [lbf·in] / with screw-type terminals	22.1 ... 31 lbf·in
Tightening torque / with screw-type terminals	2.5 ... 3.5 N·m
Position / of power supply cord	Any
<b>Mechanical Design</b>	
Height	90 mm
Width	54 mm

Depth	76 mm
Installation depth	70 mm
Number of width units	3
Mounting position	any
Net weight	529 g

### Environmental conditions

Influence of the surrounding temperature	Max. 95% rel. humidity
Shock resistance / acc. to IEC 60068-2-27	150m/s <sup>2</sup> at 11ms half-sine
Vibration resistance / acc. to IEC 60068-2-6	50m/s <sup>2</sup> at 25 to 150Hz and 60m/s <sup>2</sup> at 35Hz (4sec)
Ambient temperature	-25 ... +55 °C
<ul style="list-style-type: none"> <li>during storage</li> </ul>	-40 ... +75 °C

### Certificates

Reference code	
<ul style="list-style-type: none"> <li>acc. to DIN EN 61346-2</li> </ul>	F
<ul style="list-style-type: none"> <li>acc. to DIN EN 81346-2</li> </ul>	FC

### General Product Approval

### Declaration of Conformity

### Test Certificates



[Special Test Certificate](#)

### Railway

[Confirmation](#)

### Further information

#### Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

#### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SP4291-6>

#### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/5SP4291-6>

#### Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SP4291-6](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SP4291-6)

#### CAX-Online-Generator

<http://www.siemens.com/cax>

#### Tender specifications

<http://www.siemens.com/specifications>



