

Main miniature circuit breaker (SHU), selective, 1-pole, 100 A



Model	
product brand name	SENTRON
Product designation	Miniature circuit breaker
Design of the product	Main miniature circuit breaker
General technical data	
number of poles	1
Number of poles / Note	1P
Tripping characteristic class	E
circuit-breaker / Design	5SP3
Mechanical service life (switching cycles) / typical	20 000
overvoltage category	IV
Degree of pollution	3
Voltage	
Insulation voltage / rated value	690 V
Surge voltage resistance / rated value	6 kV
Supply voltage	
Operating current / at AC / rated value	100 A
Supply voltage / at AC / rated value	230 V

Operating voltage / rated value	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	110 V 440 V
Supply voltage frequency / rated value	50 Hz

<b>Protection class</b>	
Protection class IP	IP20, with connected conductors

<b>Switching capacity</b>	
Switching capacity current	
<ul style="list-style-type: none"> <li>• rated value</li> <li>• acc. to EN 60898 / rated value</li> </ul>	25 kA 25 kA

<b>Dissipation</b>	
Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	14.4 W
Suitability for operation	Residential buildings/infrastructure

<b>Product details</b>	
Product component	
<ul style="list-style-type: none"> <li>• saddle terminals</li> </ul>	Yes
Product feature	
<ul style="list-style-type: none"> <li>• Properties for main switches in accordance with EN 60204-1</li> <li>• sealable</li> </ul>	Yes Yes

<b>Display and operation</b>	
Display version / for switch position indicator	OFF = green, ON = red

<b>Connections</b>	
connectable conductor cross-section / solid	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	2.5 mm <sup>2</sup> 50 mm <sup>2</sup>
Connectable conductor cross-section / stranded	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	2.5 mm <sup>2</sup> 70 mm <sup>2</sup>
connectable conductor cross-section / finely stranded / with core end processing	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	2.5 mm <sup>2</sup> 50 mm <sup>2</sup>
Position / of power supply cord	Any

<b>Mechanical Design</b>	
Height	145 mm
Depth	91 mm
depth / of the enclosure	92 mm
number of width units	2

Mounting type	standard rail
Mounting type / other installation / Note	With accessories on 35 mm standard mounting rail or busbar or screw fixing
net weight	487 g

### Environmental conditions

Shock resistance	30 g, at least 3 impacts, impact duration 11 ms
Vibration resistance / acc. to IEC 60068-2-6	2 g, 20 frequency cycles 5 to 150 to 15 Hz
Ambient temperature	
• minimum	-25 °C
• maximum	55 °C
Ambient temperature / during storage	
• minimum	-40 °C
• maximum	70 °C

### Certificates

• reference code / acc. to DIN EN 61346-2	F
• Reference code / acc. to DIN EN 81346-2	F

### Declaration of Conformity



### 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=5SP3791>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SP3791>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SP3791](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SP3791)

**CAX-Online-Generator**

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

**Tender specifications**

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

