

Miniature circuit breaker 230 V 10kA, 1+N-pole, B, 10 A



Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
design of the product	5SL miniature circuit breakers
General technical data	
number of poles	2
number of poles / note	1P+N
tripping characteristic class	B
mechanical service life (switching cycles) / typical	10 000
circuit-breaker / Design	5SL4
overvoltage category	3
degree of pollution	2
Voltage	
insulation voltage	250 V
<ul style="list-style-type: none"> <li>with single-phase operation / at AC / rated value</li> </ul>	
Supply voltage	
type of voltage	AC

operating current / at AC / rated value	10 A
supply voltage / at AC / rated value	230 V
operating voltage	
<ul style="list-style-type: none"> <li>• at DC / rated value / maximum</li> </ul>	72 V
supply voltage frequency	
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	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>• acc. to EN 60898 / rated value</li> </ul>	10 kA
<ul style="list-style-type: none"> <li>• acc. to IEC 60947-2 / rated value</li> </ul>	10 kA
energy limiting class	3

<b>Dissipation</b>	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1.9 W

<b>Current</b>	
Tripping residual / rated value / derated current / at 40 Cel	9.24 A
suitability for operation	Residential buildings/infrastructure

<b>Product details</b>	
product function / neutral conductor switching	Yes
product feature / touch protection	Yes
product feature	
<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>	
connectable conductor cross-section / solid	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	0.75 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	25 mm <sup>2</sup>
connectable conductor cross-section / stranded	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	0.75 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	25 mm <sup>2</sup>
connectable conductor cross-section / finely stranded / with core end processing	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	0.75 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	25 mm <sup>2</sup>
tightening torque / with screw-type terminals	

- minimum 2.5 N·m
- maximum 3 N·m

### Mechanical Design

height	90 mm
width	36 mm
depth	76 mm
installation depth	70 mm
number of width units	2
mounting position	any
net weight	285 g

### Environmental conditions

influence of the surrounding temperature	+55 °C, max. 95% humidity
ambient temperature	
• minimum	-25 °C
• maximum	55 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	75 °C

### Certificates

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

### General Product Approval

### Declaration of Conformity

### Test Certificates



[Miscellaneous](#)



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### 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=5SL4510-6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL4510-6>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SL4510-6](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL4510-6)

#### CAX-Online-Generator

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

#### Tender specifications

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



