

Miniature circuit breaker 400 V 6kA, 4-pole, B, 50 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	4
Number of poles / Note	4P
Tripping characteristic class	B
circuit-breaker / Design	5SL6
Mechanical service life (switching cycles) / typical	10 000
Overvoltage category	3
Voltage	
Insulation voltage	440 V
<ul style="list-style-type: none"> <li>with multi-phase operation / at AC / rated value</li> </ul>	440 V
Supply voltage	
Type of voltage	AC
Current / at AC / rated value	50 A
Supply voltage / at AC / rated value	400 V

Operating voltage	
<ul style="list-style-type: none"> <li>• with multi-phase operation / at AC / maximum</li> <li>• at DC / rated value / maximum</li> </ul>	440 V 60 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> <li>• acc. to IEC 60947-2 / rated value</li> </ul>	6 kA 6 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	4 W

<b>Current</b>	
Tripping residual / rated value / derated current / at 40 Cel	46.97 A
Suitability for operation	Residential buildings/infrastructure

<b>Product details</b>	
Product function / neutral conductor switching	No
Product feature / Touch protection	Yes
Product feature	
<ul style="list-style-type: none"> <li>• halogen-free</li> <li>• sealable</li> <li>• silicon-free</li> </ul>	Yes Yes 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>	0.75 ... 25 mm <sup>2</sup> 0.75 ... 25 mm <sup>2</sup> 0.75 ... 25 mm <sup>2</sup>
Tightening torque / with screw-type terminals	2.5 ... 3 N·m

<b>Mechanical Design</b>	
Height	90 mm
Width	72 mm
Depth	76 mm
Installation depth	70 mm

Number of width units	4
Mounting position	any
Net weight	615 g

#### Environmental conditions

Influence of the surrounding temperature	Periodically +55°C, max. 95% humidity
Ambient temperature	-25 ... +45 °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>	F

#### General Product Approval

#### 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=5SL6450-6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL6450-6>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SL6450-6](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL6450-6)

##### CAX-Online-Generator

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

##### Tender specifications

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



