

Miniature circuit breaker 230/400 V 6kA, 1-pole, C, 6A



Model	
Product brand name	SETRON
Product designation	Miniature circuit breaker
Design of the product	5SL miniature circuit breakers
General technical data	
Number of poles	1
Number of poles / Note	1P
Tripping characteristic class	C
circuit-breaker / Design	5SL6
Mechanical service life (switching cycles) / typical	10 000
Overvoltage category	3
Voltage	
Type of voltage	AC
Insulation voltage	
<ul style="list-style-type: none"> <li>with single-phase operation / at AC / rated value</li> </ul>	250 V
<ul style="list-style-type: none"> <li>with multi-phase operation / at AC / rated value</li> </ul>	440 V
Supply voltage	

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
Energy limiting class	3
<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
<b>Dissipation</b>	
Power loss [W]	
<ul style="list-style-type: none"> <li>• for rated value of the current / at AC / in hot operating state / per pole</li> <li>• maximum</li> </ul>	0.7 W 0.7 W
<b>Electricity</b>	
rated current I <sub>n</sub> / IEC, DIN/VDE / at 40 Cel	5.63602 A
Current / at AC / rated value	6 A
<b>Main circuit</b>	
Operating voltage	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• at DC / rated value / maximum</li> <li>• with single-phase operation / at AC / maximum</li> <li>• with multi-phase operation / at AC / maximum</li> </ul>	24 V 60 V 250 V 440 V
Suitability for operation	Residential buildings/infrastructure
<b>Product details</b>	
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>Product function</b>	
Product function / neutral conductor switching	No
<b>Number</b>	
Number of test cycles / for environmental testing / acc. to IEC 60068-2-30	6
<b>Connections</b>	
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 / 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>
Tightening torque / with screw-type terminals	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	2.5 N·m
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	3 N·m

### Mechanical Design

Height	90 mm
Width	18 mm
Depth	76 mm
Mounting position	any
Installation depth	70 mm
Number of width units	1
Net weight	115 g

### Environmental conditions

Degree of pollution	2
Influence of the surrounding temperature	Periodically +55°C, max. 95% humidity
Ambient temperature	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	-25 °C
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	45 °C
<ul style="list-style-type: none"> <li>• during storage / minimum</li> </ul>	-40 °C
<ul style="list-style-type: none"> <li>• during storage / maximum</li> </ul>	75 °C

### Certificates

Reference identifier	
<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

<b>General Product Approval</b>	<b>Declaration of Conformity</b>	<b>Test Certificates</b>
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[TSE](#)



[Miscellaneous](#)

### 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=5SL6106-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL6106-7>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SL6106-7](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL6106-7)

CAX-Online-Generator

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

Tender specifications

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



