

CIRCUIT BREAKER 230V 6KA, 1+N-POLE, C, 2A



Model	
product brandname	SENTRON
Product designation	Miniature circuit breakers
Design of the product	5SL miniature circuit breakers
General technical data	
Number of poles	2
Number of poles / Note	1P+N
Tripping characteristic class	C
circuit-breaker / Design	5SL6
Mechanical service life (switching cycles) / typical	20 000
Overvoltage category	3
Voltage	
Type of voltage	AC/DC
Insulation voltage	250 V
<ul style="list-style-type: none"> <li>with single-phase operation / at AC / rated value</li> </ul>	
Supply voltage	
Supply voltage frequency / rated value	50 Hz

Protection class	
<b>Protection class IP</b>	IP20, with connected conductors
<b>Energy limiting class</b>	3
Switching capacity	
<b>Switching capacity current</b>	
<ul style="list-style-type: none"> <li>• acc. to EN 60898 / rated value</li> </ul>	6 kA
<ul style="list-style-type: none"> <li>• acc. to IEC 60947-2 / rated value</li> </ul>	6 kA
Dissipation	
<b>Power loss [W]</b>	
<ul style="list-style-type: none"> <li>• for rated value of the current / at AC / in hot operating state / per pole</li> </ul>	1.2 W
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	2.4 W
Electricity	
rated current $I_n$ / IEC, DIN/VDE / at 40 Cel	1.90332 A
Current / at AC / rated value	2 A
Main circuit	
<b>Operating voltage</b>	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	24 V
<ul style="list-style-type: none"> <li>• at DC / rated value / maximum</li> </ul>	60 V
<ul style="list-style-type: none"> <li>• with single-phase operation / at AC / maximum</li> </ul>	250 V
Product details	
Product feature / Touch protection	Yes
<b>Product feature</b>	
<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
Product function	
Product function / neutral conductor switching	Yes
Number	
<b>Number of test cycles / for environmental testing / acc. to IEC 60068-2-30</b>	6
Connections	
<b>Connectable conductor cross-section / stranded</b>	
<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>	35 mm <sup>2</sup>
<b>Connectable conductor cross-section</b>	
<ul style="list-style-type: none"> <li>• solid</li> </ul>	

- minimum 0.75 mm<sup>2</sup>
- maximum 35 mm<sup>2</sup>
- finely stranded / with core end processing
  - minimum 0.75 mm<sup>2</sup>
  - maximum 25 mm<sup>2</sup>

<b>Tightening torque / with screw-type terminals</b>	
• minimum	2.5 N·m
• maximum	3 N·m

### Mechanical Design

<b>Height</b>	90 mm
<b>Width</b>	36 mm
<b>Depth</b>	76 mm
<b>Mounting position</b>	any
<b>Installation depth</b>	70 mm
<b>Number of width units</b>	2
<b>Net weight</b>	273 g

### Environmental conditions

<b>Degree of pollution</b>	2
<b>Influence of the surrounding temperature</b>	Periodically +55°C, max. 95% humidity
<b>Ambient temperature</b>	
• minimum	-25 °C
• maximum	45 °C
• during storage / minimum	-40 °C
• during storage / maximum	75 °C

### Certificates

<b>Equipment marking</b>	
• acc. to DIN EN 61346-2	F
• acc. to DIN EN 81346-2	F

### General Product Approval

Declaration of  
Conformity

Test  
Certificates



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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=5SL6502-7>

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

<http://support.automation.siemens.com/WW/view/en/5SL6502-7/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SL6502-7](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL6502-7)

CAX-Online-Generator

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

Tender specifications

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

