

CIRCUIT BREAKER 400V 10KA, 4POLE, C, 50A



Model	
product brandname	SENTRON
Product designation	Miniature circuit breakers
Design of the product	5SL miniature circuit breakers
General technical data	
Number of poles	4
Number of poles / Note	4P
Tripping characteristic class	C
circuit-breaker / Design	5SL4
Mechanical service life (switching cycles) / typical	10 000
Overvoltage category	3
Voltage	
Type of voltage	AC/DC
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	
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>	10 kA
<ul style="list-style-type: none"> <li>• acc. to IEC 60947-2 / rated value</li> </ul>	10 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>	3.61 W
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	10.8 W
Electricity	
rated current $I_n$ / IEC, DIN/VDE / at 40 Cel	47.36 A
Current / at AC / rated value	50 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 multi-phase operation / at AC / maximum</li> </ul>	440 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	No
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>

#### Tightening torque / with screw-type terminals

- minimum 2.5 N·m
- maximum 3 N·m

### Mechanical Design

Height	90 mm
Width	72 mm
Depth	76 mm
Mounting position	any
Installation depth	70 mm
Number of width units	4
Net weight	660 g

### Environmental conditions

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

### Certificates

Equipment marking <ul style="list-style-type: none"> <li>• acc. to DIN EN 61346-2 F</li> <li>• acc. to DIN EN 81346-2 F</li> </ul>	
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#### General Product Approval

#### 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://eb.automation.siemens.com/mall/en/WW/Catalog/Product/5SL4450-7>

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

<http://support.automation.siemens.com/WW/view/en/5SL4450-7/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SL4450-7](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL4450-7)

CAx-Online-Generator

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

Tender specifications

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

