



CIRCUIT BREAKER 230V 6KA, 1+N-POLE/1MW C8

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
design of the product	Miniature circuit breaker compact
General technical data	
design of pole	1P+N
tripping characteristic class	C
mechanical service life (operating cycles) typical	10 000
overvoltage category	III
degree of pollution	2
Voltage	
type of voltage of the operating voltage	AC
insulation voltage (Ui) at AC rated value	250 V
operational current	
• at 30 °C rated value	8 A
• at 40 °C rated value	7.52 A
• at 50 °C rated value	7 A
• at 55 °C rated value	6.73 A
• at 60 °C rated value	6.45 A
• at AC rated value	8 A
Supply voltage	
supply voltage	
• at AC rated value	230 V
• at DC rated value	60 V
value range of the supply voltage frequency	50/60 Hz
operating voltage	
• minimum	24 V
• with single-phase operation at AC maximum	250 V
Protection class	
protection class IP	IP20, with connected conductors
Breaking Capacity	
switching capacity current	
• according to EN 60898 rated value	6 kA
energy limitation class	3
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	1.3 W
Suitability	
suitability for operation	Residential buildings/infrastructure
Product details	

product component	
<ul style="list-style-type: none"> <li>• combined terminal top</li> <li>• combined terminal bottom</li> <li>• neutral conductor switching</li> </ul>	<p>No</p> <p>No</p> <p>Yes</p>
product feature	
<ul style="list-style-type: none"> <li>• properties for main switches in accordance with EN 60204-1</li> <li>• halogen-free</li> <li>• sealable</li> <li>• silicon-free</li> </ul>	<p>No</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
product extension installable supplementary devices	Yes

### Connections

connectable conductor cross-section solid	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>0.75 mm<sup>2</sup></p> <p>16 mm<sup>2</sup></p>
connectable conductor cross-section stranded	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>0.75 mm<sup>2</sup></p> <p>16 mm<sup>2</sup></p>
connectable conductor cross-section finely stranded with core end processing	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>0.75 mm<sup>2</sup></p> <p>10 mm<sup>2</sup></p>
tightening torque [lbf·in] with screw-type terminals	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>10.6 lbf·in</p> <p>22.1 lbf·in</p>
tightening torque with screw-type terminals	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>1.2 N·m</p> <p>2.5 N·m</p>
position of power supply cord	Any

### Mechanical Design

height	90 mm
width	18 mm
depth	76 mm
installation depth	70 mm
number of modular width units	1
fastening method	DIN rail
mounting position	any
net weight	113.2 g

### Environmental conditions

standard	IEC/EN60898-1, GB/T10963.1
vibration resistance according to IEC 60068-2-6	Yes
ambient temperature during operation	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>-25 °C</p> <p>60 °C</p>
ambient temperature during storage	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>-40 °C</p> <p>75 °C</p>
number of test cycles for environmental testing according to IEC 60068-2-30	6

### Approvals Certificates

#### General Product Approval



[Confirmation](#)



General Product Approval	Marine / Shipping	other	Environment
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[Confirmation](#)

[Miscellaneous](#)

[EPD Typ II/III \(with life cycle assessment\)](#)

## Environment

[Environmental Confirmations](#)

## Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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=5SL6008-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL6008-7>

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

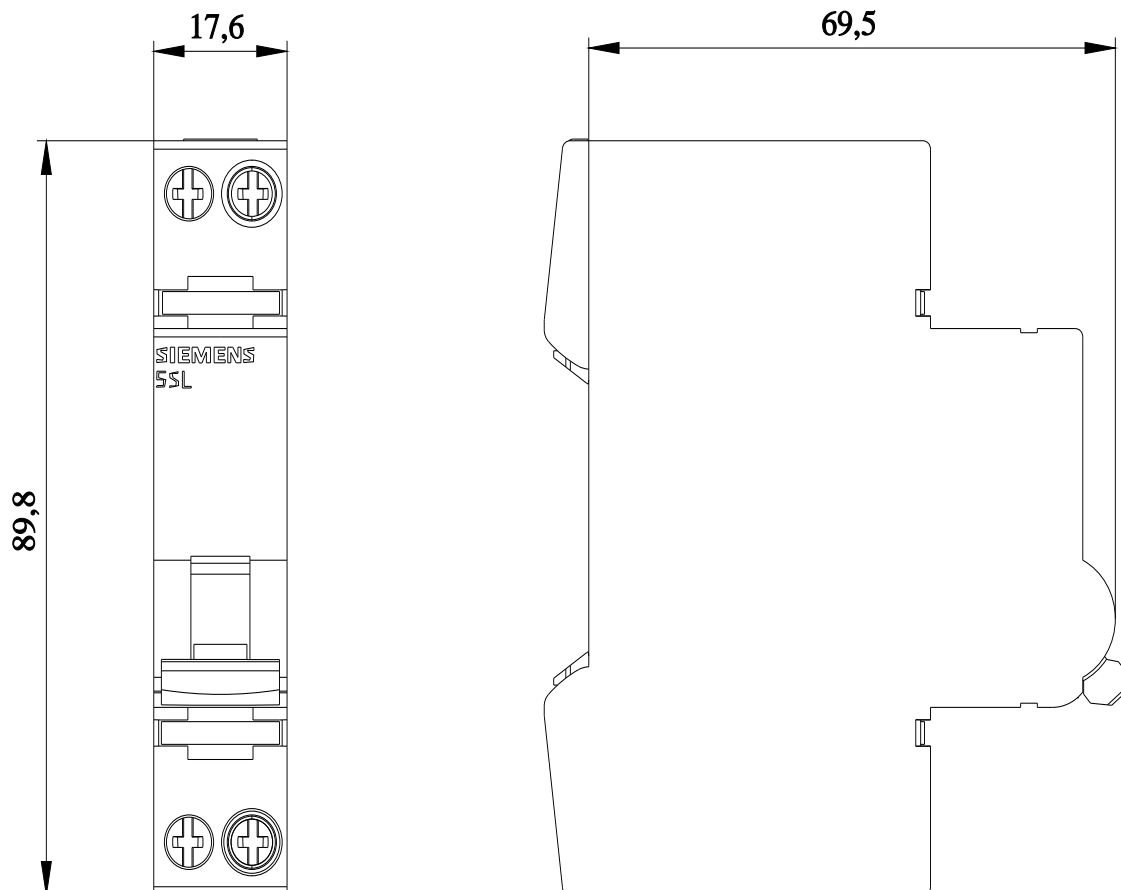
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SL6008-7](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL6008-7)

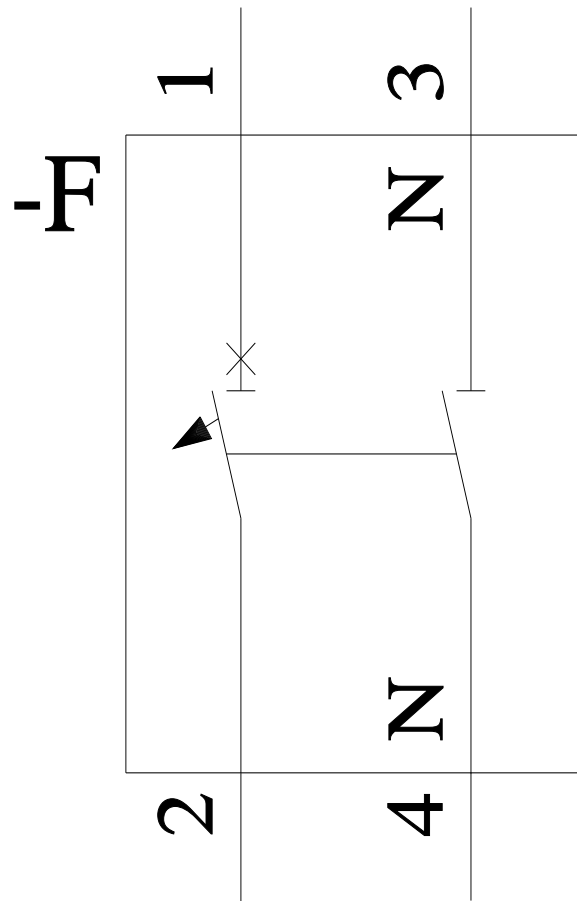
CAX-Online-Generator

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

Tender specifications

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





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