



miniature circuit breaker 6 kA 110 V DC, 2-pole, width 1 MW (18 mm), switching characteristic C, 10 A

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
design of the product	Miniature circuit breaker compact
General technical data	
design of pole	2P
tripping characteristic class	C
mechanical service life (operating cycles) typical	10 000
overvoltage category	3
degree of pollution	2
Voltage	
type of voltage of the operating voltage	DC
<ul style="list-style-type: none"> <li>operational current                             <ul style="list-style-type: none"> <li>— at 30 °C rated value</li> </ul> </li> </ul>	10 A
operational current at DC rated value	10 A
Supply voltage	
supply voltage <ul style="list-style-type: none"> <li>at DC rated value</li> </ul>	110 V
operating voltage <ul style="list-style-type: none"> <li>minimum</li> </ul>	24 V
Protection class	
protection class IP	IP20, with connected conductors
Breaking Capacity	
switching capacity current <ul style="list-style-type: none"> <li>according to EN 60898 rated value</li> </ul>	6 kA
grid spacing	35 mm
energy limitation class	3
Dissipation	
power loss [W] for rated value of the current <ul style="list-style-type: none"> <li>at DC in hot operating state per pole</li> </ul>	1.4 W
Suitability	
suitability for operation	residential buildings/infrastructure/mobility
Product details	
product feature touch protection	Yes
product component <ul style="list-style-type: none"> <li>combined terminal top</li> <li>combined terminal bottom</li> <li>neutral conductor switching</li> </ul>	No No No

product feature properties for main switches in accordance with EN 60204-1	No	
product feature halogen-free	Yes	
product feature sealable	Yes	
product feature silicon-free	Yes	
product extension installable supplementary devices	Yes	
<b>Product function</b>		
product function		
• communication function	No	
• other measurement function	No	
<b>Connections</b>		
connectable conductor cross-section solid		
• minimum	0.75 mm <sup>2</sup>	
• maximum	16 mm <sup>2</sup>	
connectable conductor cross-section stranded		
• minimum	0.75 mm <sup>2</sup>	
• maximum	16 mm <sup>2</sup>	
connectable conductor cross-section finely stranded with core end processing		
• minimum	0.75 mm <sup>2</sup>	
• maximum	10 mm <sup>2</sup>	
tightening torque [lbf·in] with screw-type terminals		
• minimum	10.6 lbf·in	
• maximum	22.1 lbf·in	
tightening torque with screw-type terminals		
• minimum	1.2 N·m	
• maximum	2.5 N·m	
position of power supply cord	Any	
<b>Mechanical Design</b>		
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	150 g	
<b>Environmental conditions</b>		
standard	IEC60898-3	
vibration resistance according to IEC 60068-2-6	Yes	
ambient temperature during operation		
• minimum	-40 °C	
• maximum	70 °C	
ambient temperature during storage		
• minimum	-40 °C	
• maximum	75 °C	
number of test cycles for environmental testing according to IEC 60068-2-30	6	
<b>Environmental footprint</b>		
Environmental Product Declaration (EPD)	Yes	
global warming potential [CO <sub>2</sub> eq] total	6.5 kg	
global warming potential [CO <sub>2</sub> eq] during manufacturing	0.758 kg	
global warming potential [CO <sub>2</sub> eq] during operation	5.76 kg	
global warming potential [CO <sub>2</sub> eq] after end of life	-0.058 kg	
<b>Approvals Certificates</b>		
General Product Approval	Test Certificates	other



[Confirmation](#)



[Miscellaneous](#)

[Confirmation](#)

other

Environment



[Environmental Confirmations](#)



[Environmental Confirmations](#)

### Further information

Information on the packaging

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

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SL5810-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL5810-7>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SL5810-7](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL5810-7)

CAX-Online-Generator

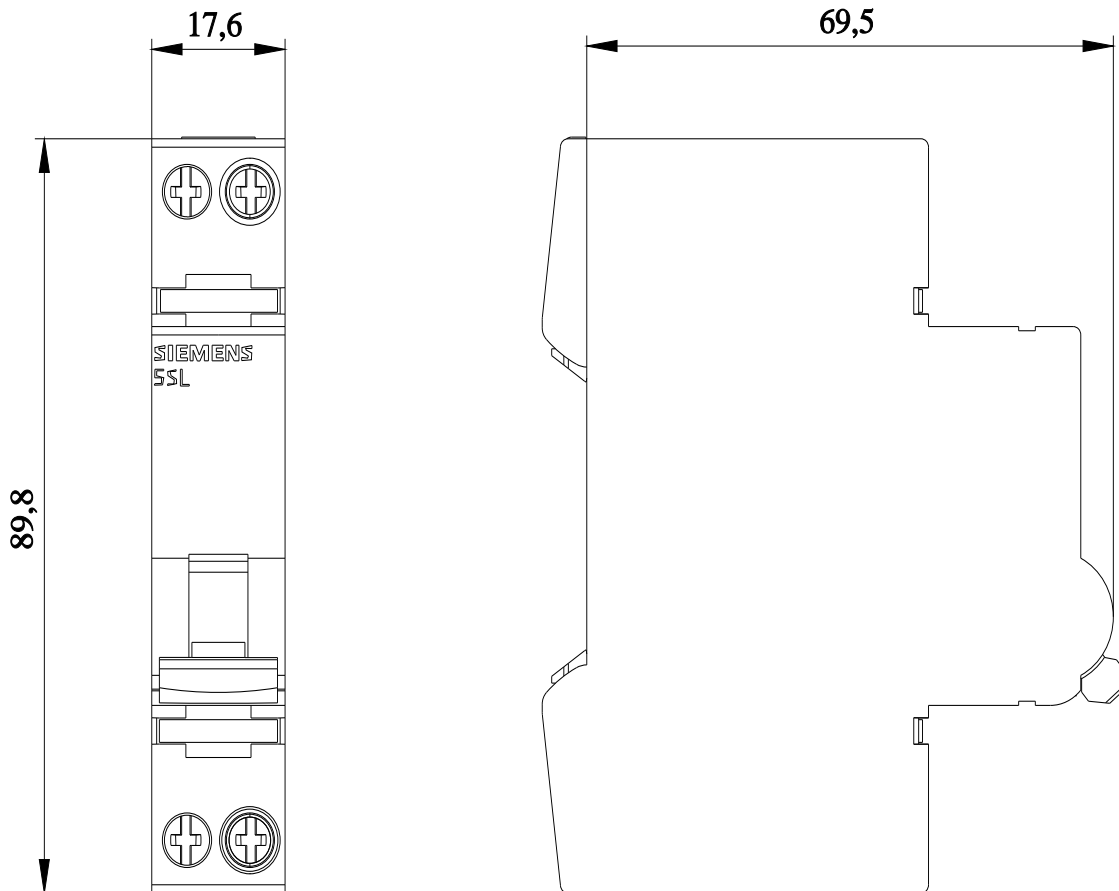
<https://www.siemens.com/cax>

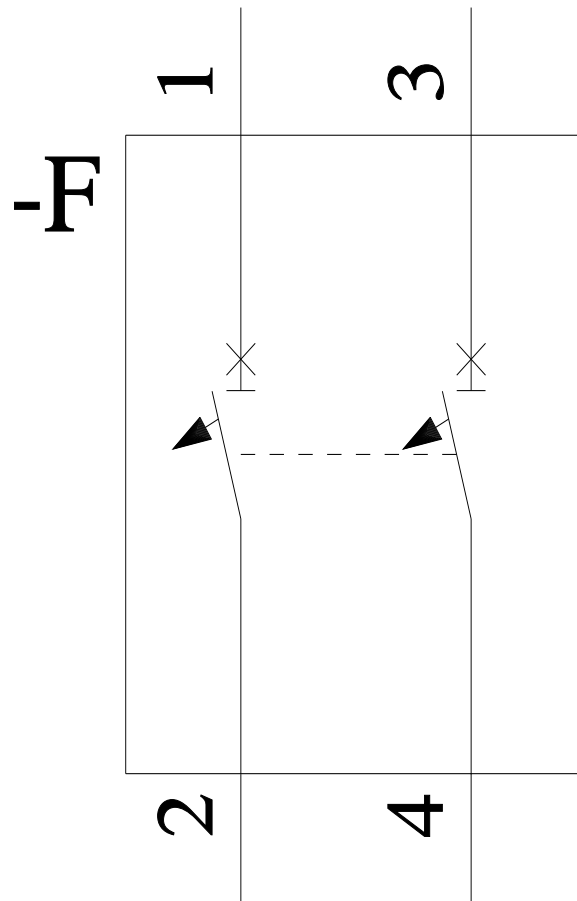
Tender specifications

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

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP='HAUPT'></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP='HAUPT'></mmp_prod_no>)





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