



miniature circuit breaker 6 kA 110 V DC, 2-pole, width 1 MW (18 mm), switching characteristic C, 13 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"> operational current 	
— at 30 °C rated value	13 A
operational current at DC rated value	13 A
Supply voltage	
supply voltage	
• at DC rated value	110 V
operating voltage	
• minimum	24 V
Protection class	
protection class IP	IP20, with connected conductors
Breaking Capacity	
switching capacity current	
• according to EN 60898 rated value	6 kA
grid spacing	35 mm
energy limitation class	3
Dissipation	
power loss [W] for rated value of the current	
• at DC in hot operating state per pole	1.6 W
Suitability	
suitability for operation	residential buildings/infrastructure/mobility
Product details	
product feature touch protection	Yes
product component	
• combined terminal top	No
• combined terminal bottom	No
• neutral conductor switching	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	
Product function		
product function		
• communication function	No	
• other measurement function	No	
Connections		
connectable conductor cross-section solid		
• minimum	0.75 mm ²	
• maximum	16 mm ²	
connectable conductor cross-section stranded		
• minimum	0.75 mm ²	
• maximum	16 mm ²	
connectable conductor cross-section finely stranded with core end processing		
• minimum	0.75 mm ²	
• maximum	10 mm ²	
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	
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	150 g	
Environmental conditions		
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	
Environmental footprint		
Environmental Product Declaration(EPD)	Yes	
global warming potential [CO2 eq] total	7.28 kg	
global warming potential [CO2 eq] during manufacturing	0.758 kg	
global warming potential [CO2 eq] during operation	6.54 kg	
global warming potential [CO2 eq] after end of life	-0.058 kg	
Approvals Certificates		
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=5SL5813-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL5813-7>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL5813-7

CAX-Online-Generator

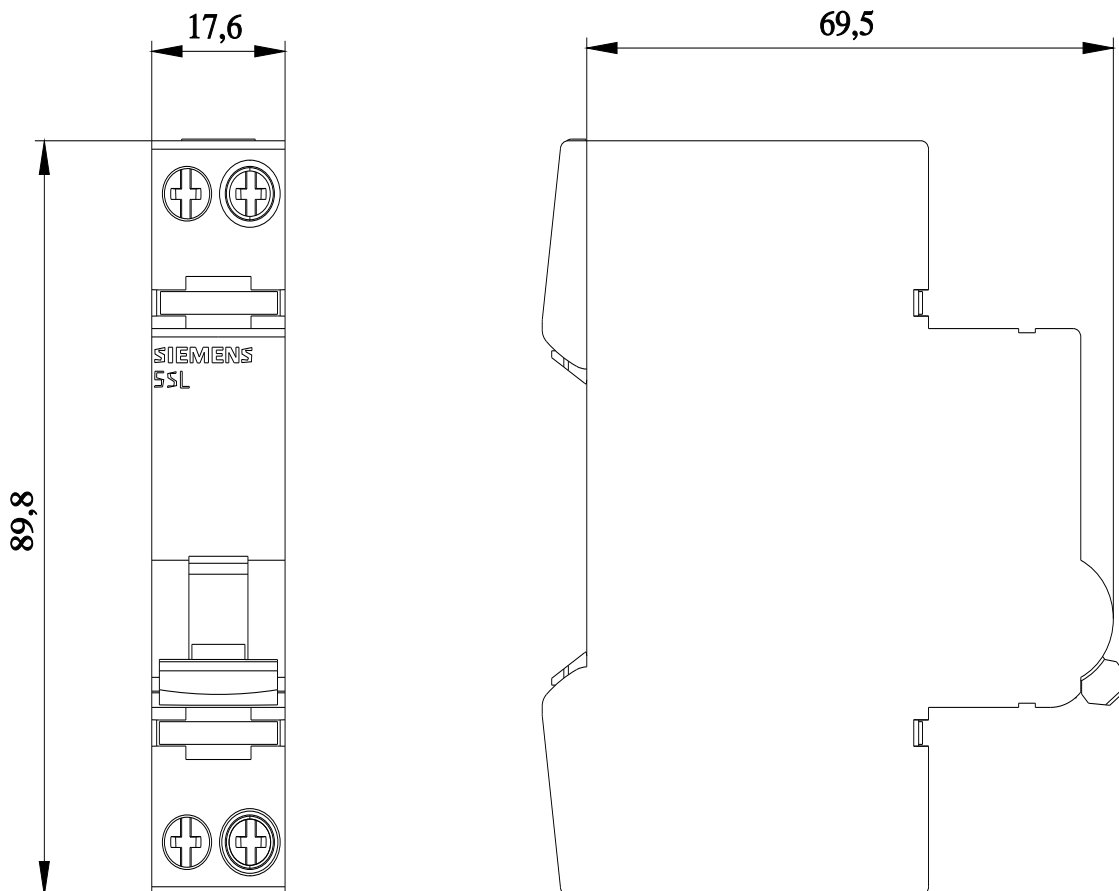
<https://www.siemens.com/cax>

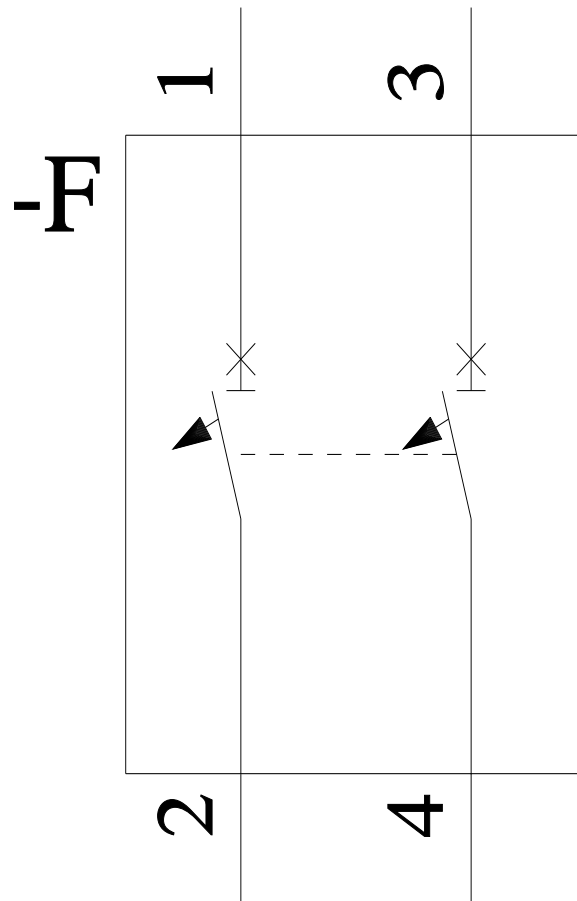
Tender specifications

<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=)





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