



miniature circuit breaker 6 kA 110 V DC, 2-pole, width 1 MW (18 mm), switching characteristic C, 20 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 — at 40 °C rated value — at 50 °C rated value — at 55 °C rated value — at 60 °C rated value 	20 A 19.11 A 18.18 A 17.7 A 17.2 A
operational current at DC rated value	20 A
Supply voltage	
supply voltage	
<ul style="list-style-type: none"> ● at DC rated value 	110 V
operating voltage	
<ul style="list-style-type: none"> ● minimum 	24 V
Protection class	
protection class IP	IP20, with connected conductors
Breaking Capacity	
switching capacity current	
<ul style="list-style-type: none"> ● 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	
<ul style="list-style-type: none"> ● at DC in hot operating state per pole 	3.5 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 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
Approvals Certificates	
Environment	General Product Approval

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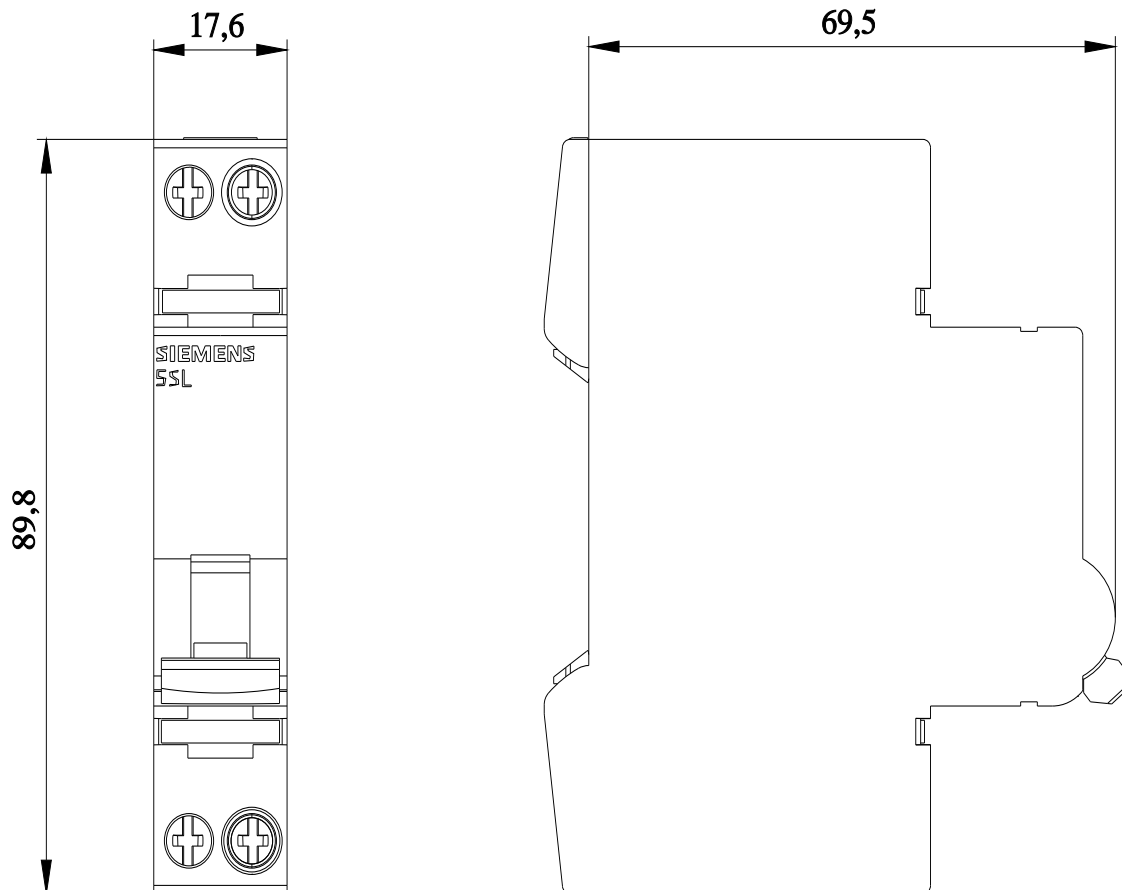


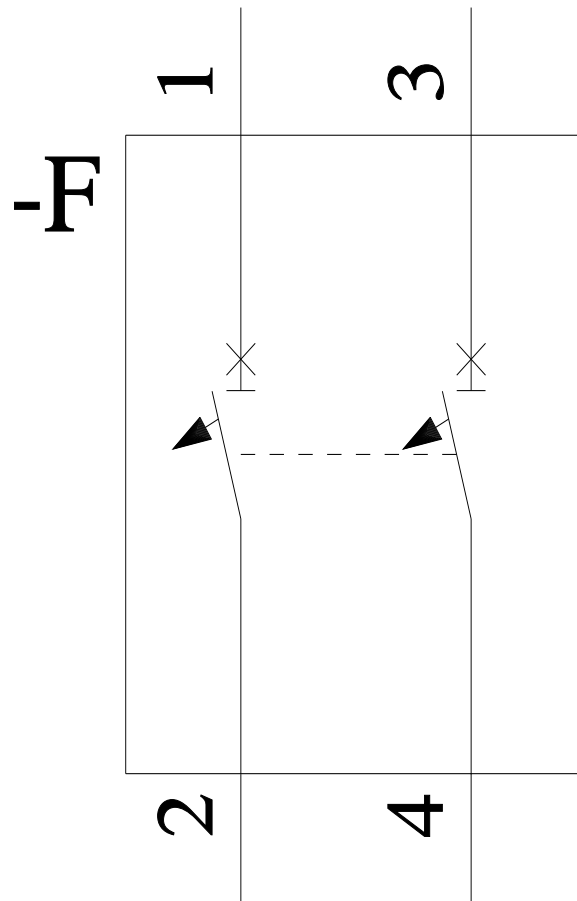
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[Miscellaneous](#)[Confirmation](#)**Further information****Information on the packaging**<https://support.industry.siemens.com/cs/ww/en/view/109813875>**Information for data generation and storage**<https://support.industry.siemens.com/cs/ww/en/view/109995012>**Information- 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=5SL5820-7>**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**<https://support.industry.siemens.com/cs/ww/en/ps/5SL5820-7>**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL5820-7**CAX-Online-Generator**<https://www.siemens.com/cax>**Tender specifications**<https://www.siemens.com/specifications>**Characteristic curves**[https://curves.simarisiemens.com/curves/<mmp_prod_noCOMP="HAUPT"></mmp_prod_no>](https://curves.simarisiemens.com/curves/<mmp_prod_noCOMP=)



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