



Miniature circuit breaker 230/400 V 6kA, 1-pole, B, 20 A

Model	
product brand name	SETRON
product designation	Miniature circuit breaker
General technical data	
number of poles	1
design of pole	1P
tripping characteristic class	B
mechanical service life (operating cycles)	
• typical	10 000
overvoltage category	III
degree of pollution	2
Voltage	
type of voltage of the operating voltage	AC
<b>insulation voltage (Ui)</b>	
• with single-phase operation at AC rated value	250 V
• with multi-phase operation at AC rated value	440 V
operational current	
• at 30 °C rated value	20 A
• at 40 °C rated value	18.79 A
• at 55 °C rated value	16.8 A
• at AC rated value	20 A
Supply voltage	
supply voltage at AC	400 V
value range of the supply voltage frequency	50/60 Hz
operating voltage	
• with multi-phase operation at AC maximum	440 V
• at DC rated value maximum	72 V
Protection class	
protection class IP	IP20, with connected conductors
Breaking Capacity	
switching capacity current	
• according to EN 60898 rated value	6 kA
• according to IEC 60947-2 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	2.2 W
suitability for operation	Residential buildings/infrastructure
Product details	
product feature	

• halogen-free	Yes
• sealable	Yes
• silicon-free	Yes
product extension installable supplementary devices	Yes

### Connections

connectable conductor cross-section solid	
• minimum	0.75 mm <sup>2</sup>
• maximum	25 mm <sup>2</sup>
connectable conductor cross-section stranded	
• minimum	0.75 mm <sup>2</sup>
• maximum	25 mm <sup>2</sup>
connectable conductor cross-section 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	18 mm
depth	76 mm
installation depth	70 mm
number of modular width units	1
mounting position	any
net weight	120 g

### Environmental conditions

ambient temperature during operation	
• minimum	-25 °C
• maximum	45 °C
ambient temperature during storage	
• minimum	-40 °C
• maximum	75 °C

### Environmental footprint

Environmental Product Declaration (EPD)	Yes
Global Warming Potential [CO2 eq] total	28.2 kg
Global Warming Potential [CO2 eq] during manufacturing	0.718 kg
Global Warming Potential [CO2 eq] during operation	27.5 kg
Global Warming Potential [CO2 eq] after end of life	-0.057 kg

### Approvals Certificates

#### General Product Approval



[Confirmation](#)



[Miscellaneous](#)

General Product Approval	other	Environment
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[Confirmation](#)

[Miscellaneous](#)



[Environmental Confirmations](#)

[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=5SL6120-6>

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

<http://support.industry.siemens.com/cs/ww/en/ps/5SL6120-6>

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

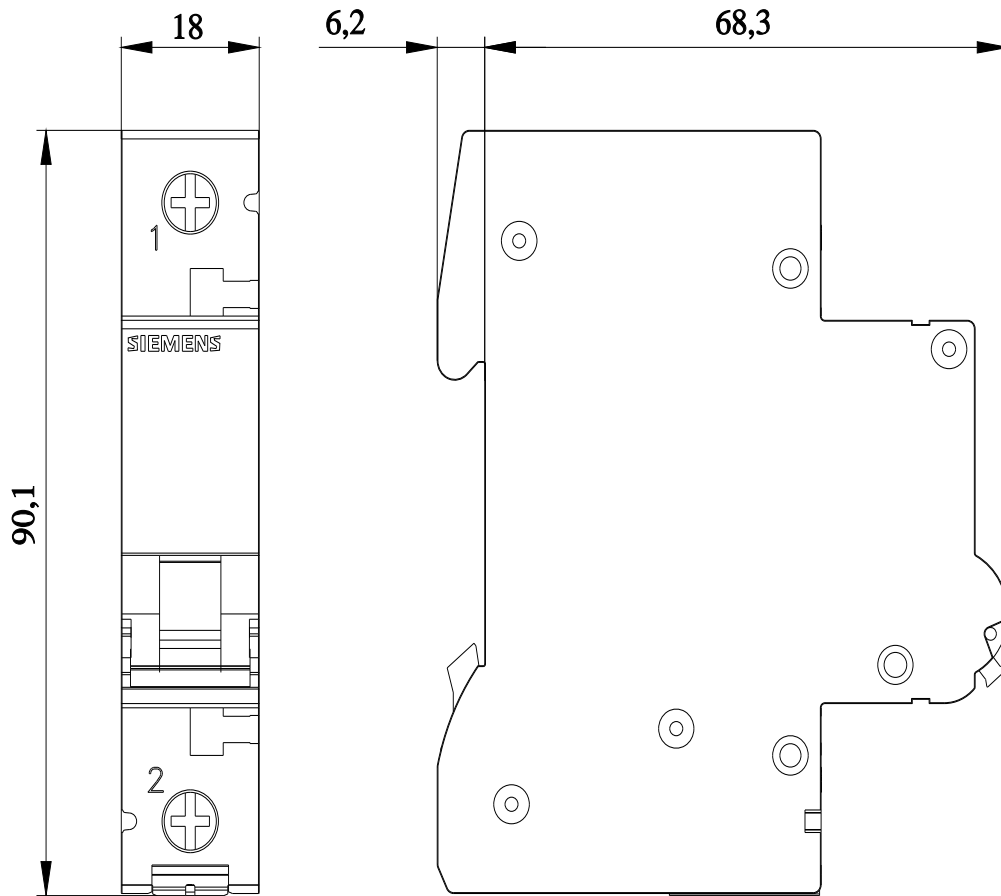
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SL6120-6](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL6120-6)

CAx-Online-Generator

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

Tender specifications

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





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