



Miniature Circuit Breaker 20A 1-pole Z characteristic 10kA

Model	
product brand name	Betagard
product designation	Miniature circuit breaker
General technical data	
number of poles	1
design of pole	1P
tripping characteristic class	Z
mechanical service life (operating cycles)	
• typical	8 500
overvoltage category	III
degree of pollution	3
Voltage	
type of voltage of the operating voltage	AC
type of voltage	Use only in alternating current or direct current circuits. Mixed use is not permitted.
<b>insulation voltage (Ui)</b>	
• with single-phase operation at AC rated value	440 V
• with multi-phase operation at AC rated value	440 V
operational current	
• at 30 °C rated value	21.8 A
• at 40 °C rated value	20.9 A
• at 50 °C rated value	20 A
• at 55 °C rated value	19.5 A
• at 60 °C rated value	19 A
• at AC rated value	20 A
Supply voltage	
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	62.5 V
•	The operational voltage 62,5V DC/pole takes into account a battery charging voltage with peak value of 72V
value range of the supply voltage at AC	240/415 V
Protection class	
protection class IP	IP20, with connected conductors
Breaking Capacity	
switching capacity current	
• according to EN 60898 rated value	10 kA
• according to IEC 60947-2 rated value	10 kA
energy limitation class	NA

Product details			
product feature touch protection		Yes	
product component neutral conductor switching		No	
product feature <ul style="list-style-type: none"><li>● halogen-free</li><li>● sealable</li><li>● silicon-free</li></ul>		Yes Yes Yes	
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>		0.75 mm² 25 mm²	
connectable conductor cross-section stranded <ul style="list-style-type: none"><li>● minimum</li><li>● maximum</li></ul>		0.75 mm² 25 mm²	
connectable conductor cross-section finely stranded with core end processing <ul style="list-style-type: none"><li>● minimum</li><li>● maximum</li></ul>		0.75 mm² 25 mm²	
tightening torque with screw-type terminals <ul style="list-style-type: none"><li>● minimum</li><li>● maximum</li></ul>		2.5 N·m 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		130 g	
Environmental conditions			
vibration resistance according to IEC 60068-2-6		50 m/s² at 25 to 150 Hz	
ambient temperature during storage <ul style="list-style-type: none"><li>● minimum</li><li>● maximum</li></ul>		-40 °C 75 °C	
Environmental footprint			
Environmental Product Declaration(EPD)		Yes	
Global Warming Potential [CO2 eq] total		26.9 kg	
Global Warming Potential [CO2 eq] during manufacturing		0.73 kg	
Global Warming Potential [CO2 eq] during operation		26.3 kg	
Global Warming Potential [CO2 eq] after end of life		-0.066 kg	
Approvals Certificates			
General Product Approval		Test Certificates	other
			Environment

[Confirmation](#)



[Miscellaneous](#)

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[Confirmation](#)



## Environment

[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=5SL4120-0RC>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL4120-0RC>

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

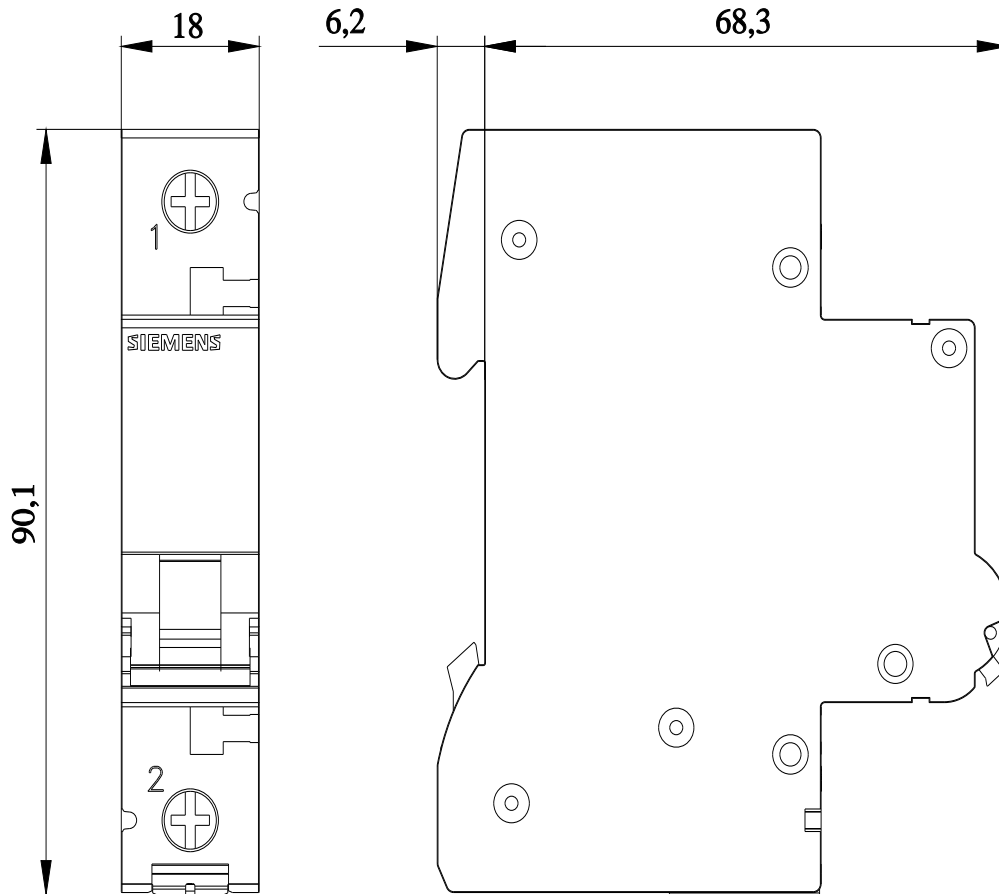
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SL4120-0RC](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL4120-0RC)

CAX-Online-Generator

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

Tender specifications

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





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