



Miniature Circuit Breaker 6A 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.
insulation voltage (Ui)	
• 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	6.5 A
• at 40 °C rated value	6.3 A
• at 50 °C rated value	6 A
• at 55 °C rated value	5.9 A
• at 60 °C rated value	5.7 A
• at AC rated value	6 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
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	15 kA
energy limitation class	NA
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 ²
• maximum	25 mm ²
connectable conductor cross-section stranded	
• minimum	0.75 mm ²
• maximum	25 mm ²
connectable conductor cross-section finely stranded with core end processing	
• minimum	0.75 mm ²
• maximum	25 mm ²
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

Environmental conditions

vibration resistance according to IEC 60068-2-6	50 m/s ² at 25 to 150 Hz
ambient temperature during storage	
• minimum	-40 °C
• maximum	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
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[Confirmation](#)



[Miscellaneous](#)

[Confirmation](#)

[Miscellaneous](#)



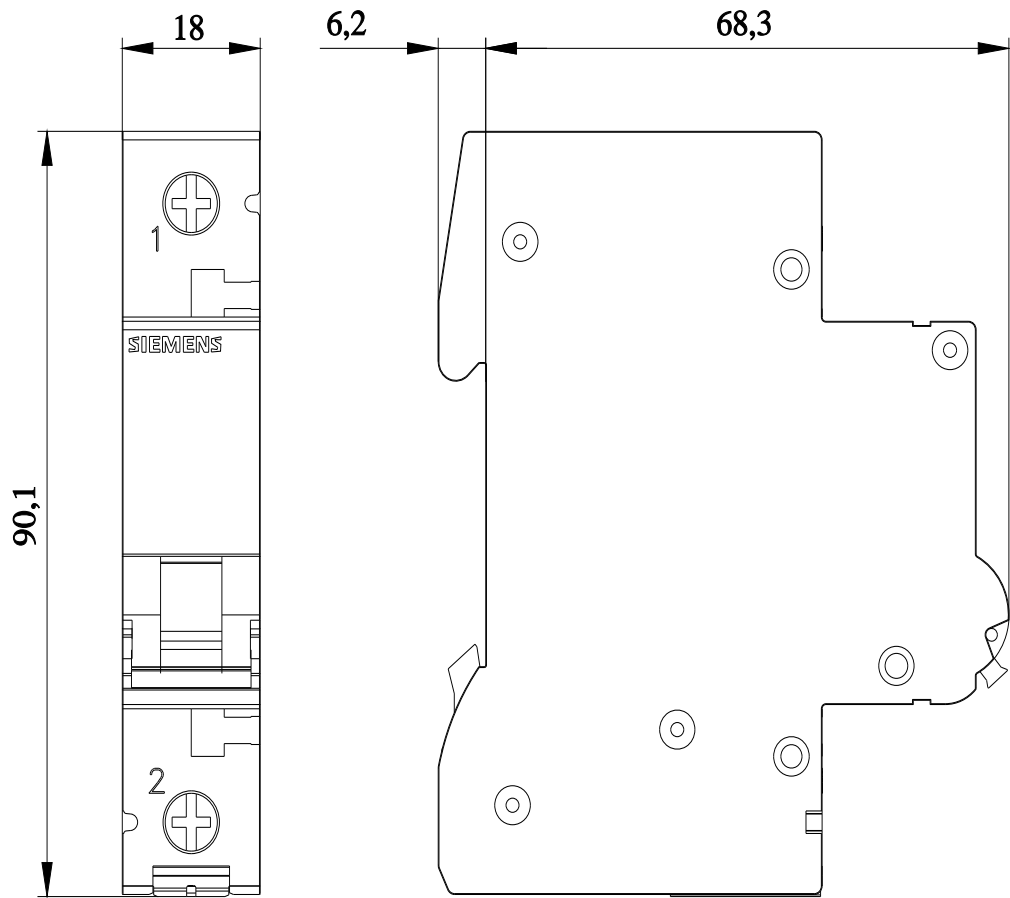
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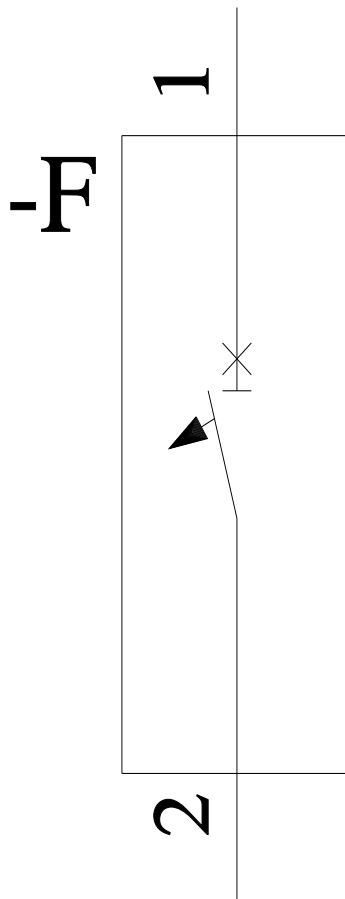
[Environmental Confirmations](#)

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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=5SL4106-0RC>
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/5SL4106-0RC>
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL4106-0RC





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