



CIRCUIT BREAKER 230V 6KA, 1+N-POLE/1MW B20

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
design of the product	Miniature circuit breaker compact
General technical data	
design of pole	1P+N
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
insulation voltage (Ui) at AC rated value	250 V
operational current	
• at 30 °C rated value	20 A
• at 40 °C rated value	19.04 A
• at 50 °C rated value	18.02 A
• at 55 °C rated value	17.5 A
• at 60 °C rated value	16.95 A
• at AC rated value	20 A
Supply voltage	
supply voltage	
• at AC	230 V
• at DC rated value	60 V
value range of the supply voltage frequency	50/60 Hz
operating voltage	
• minimum	24 V
• with single-phase operation at AC maximum	250 V
Protection class	
protection class IP	IP20, with connected conductors
Breaking Capacity	
switching capacity current	
• according to EN 60898 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	2.5 W
Suitability	
suitability for operation	Residential buildings/infrastructure
Product details	

product feature touch protection	Yes
product component	
• combined terminal top	No
• combined terminal bottom	No
• neutral conductor switching	Yes
product feature	
• properties for main switches in accordance with EN 60204-1	No
• 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	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	122 g
Environmental conditions	
standard	IEC/EN60898-1, GB/T10963.1
vibration resistance according to IEC 60068-2-6	Yes
ambient temperature during operation	
• minimum	-25 °C
• maximum	60 °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	
Global Warming Potential [CO2 eq] total	11.7 kg
Global Warming Potential [CO2 eq] during manufacturing	0.916 kg
Global Warming Potential [CO2 eq] during operation	10.8 kg
Global Warming Potential [CO2 eq] after end of life	-0.102 kg
Approvals Certificates	
General Product Approval	



[Confirmation](#)



General Product Approval

Marine / Shipping

other

Environment



[Miscellaneous](#)

[Confirmation](#)



Environment

Siemens
EcoTech



[Environmental Con-
firmations](#)

[Environmental Con-
firmations](#)

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=5SL6020-6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL6020-6>

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

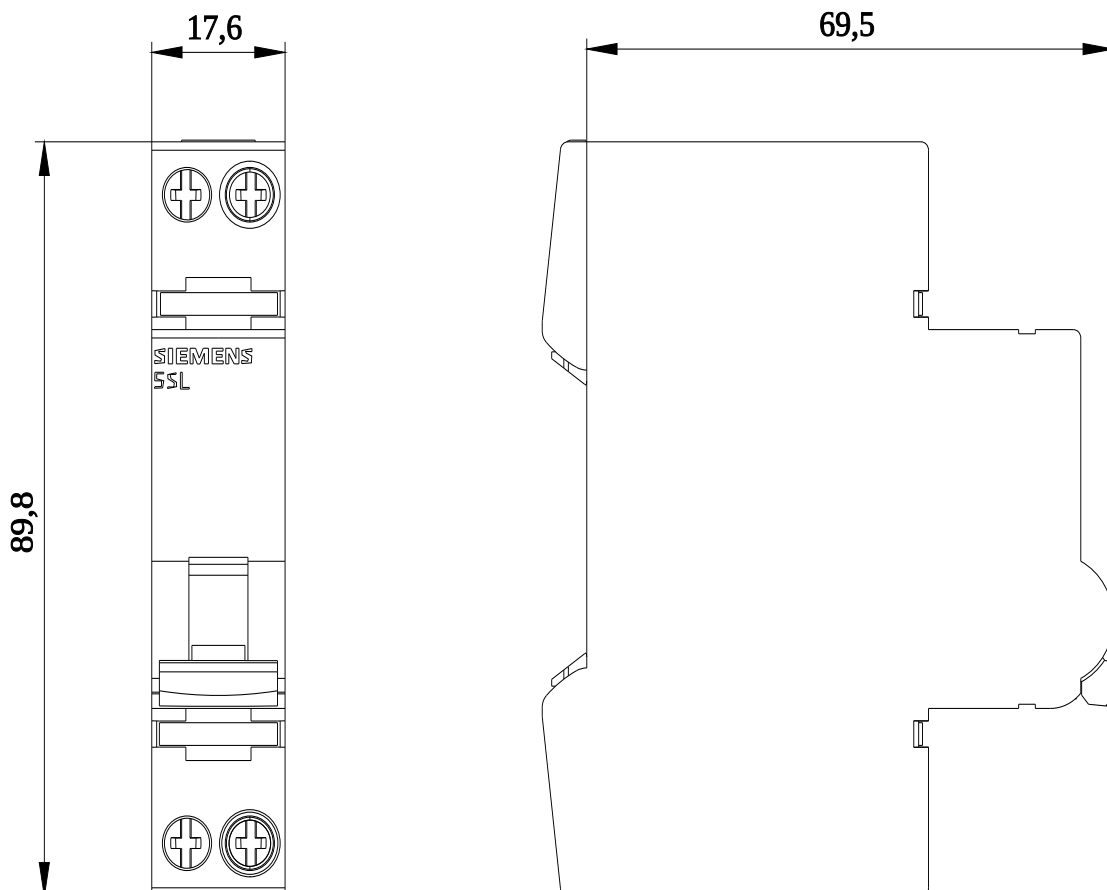
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL6020-6

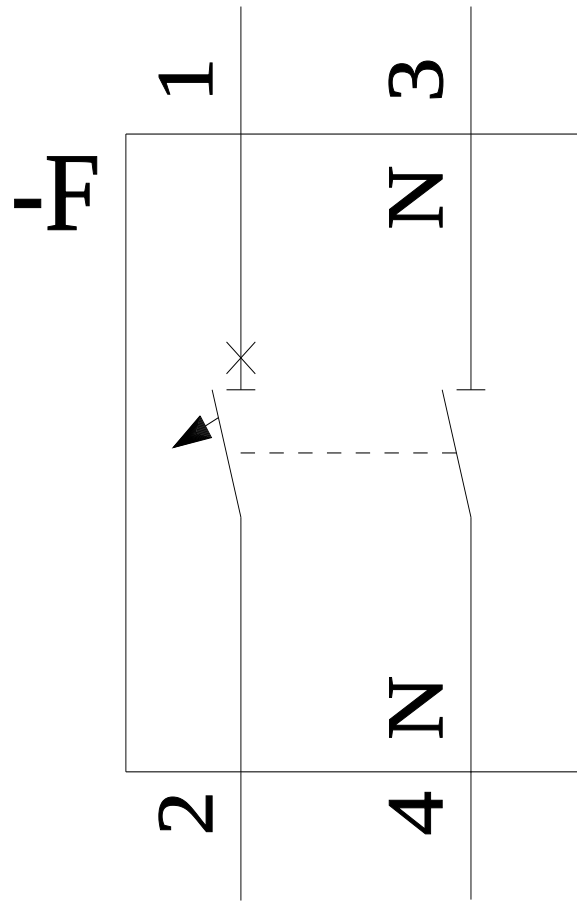
CAX-Online-Generator

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

Tender specifications

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





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