

Miniature Circuit Breaker 6KA, 1+N-pole, C, 8A

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	2
design of pole	1P+N
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	AC
type of voltage	Use only in alternating current or direct current circuits. Mixed use is not permitted.
insulation voltage (Ui)	
<ul style="list-style-type: none"> with single-phase operation at AC rated value 	250 V
<ul style="list-style-type: none"> operational current <ul style="list-style-type: none"> — at 30 °C rated value — at 40 °C rated value operational current at AC rated value 	8 A 7.39 A 8 A
Supply voltage	
supply voltage at AC	230 V
value range of the supply voltage frequency	50/60 Hz
operating voltage	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> according to EN 60898 rated value 	6 kA
suitability for operation	Residential buildings/infrastructure
Product details	
product feature touch protection	No
product component neutral conductor switching	Yes
product feature halogen-free	Yes
product feature sealable	Yes
product feature silicon-free	Yes
product extension installable supplementary devices	No
Connections	
connectable conductor cross-section finely stranded with core end processing	
<ul style="list-style-type: none"> minimum maximum 	0.75 mm ² 25 mm ²
tightening torque with screw-type terminals	
<ul style="list-style-type: none"> minimum maximum 	2.5 N·m 3 N·m
Mechanical Design	

height	90 mm
width	36 mm
depth	76 mm
installation depth	70 mm
number of modular width units	2
mounting position	any
Net Weight	238 g

Environmental conditions

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

Approvals Certificates

Environment	General Product Approval	other
-------------	--------------------------	-------

[Environmental Con-
firmations](#)



[Confirmation](#)



[Confirmation](#)

other



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=5SJ6508-7FC>
- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/5SJ6508-7FC>
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ6508-7FC
- CAx-Online-Generator
<https://www.siemens.com/cax>
- Tender specifications
<https://www.siemens.com/specifications>
- Characteristic curves
[https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP="HAUPT"></mmp_prod_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)

last modified:

11/24/2025

