



Miniature circuit breaker 230 V 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 (U _i)	
<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 at 55 °C rated value operational current at AC rated value 	8 A 7.61 A 6.99 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 according to IEC 60947-2 rated value 	6 kA 6 kA
energy limitation class	3
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	0.7 W
suitability for operation	Residential buildings/infrastructure

Product details

product feature touch protection	Yes
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	Yes

Connections

connectable conductor cross-section solid <ul style="list-style-type: none"> • minimum • maximum 	0.75 mm ² 25 mm ²
connectable conductor cross-section stranded <ul style="list-style-type: none"> • minimum • maximum 	0.75 mm ² 25 mm ²
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	243 g

Environmental conditions

ambient temperature during operation <ul style="list-style-type: none"> • minimum • maximum 	-25 °C 45 °C
ambient temperature during storage <ul style="list-style-type: none"> • minimum • maximum 	-40 °C 75 °C

Approvals Certificates

Environment	General Product Approval
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[Environmental Confirmations](#)

[Environmental Confirmations](#)



[Miscellaneous](#)



General Product Approval	other
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[Confirmation](#)



[Confirmation](#)



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?mifb=5SL6508-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL6508-7>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL6508-7

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>





last modified:

10/10/2025 

