

Miniature circuit breaker 400 V 6kA, 3-pole, C, 8A



Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
design of the product	5SL miniature circuit breakers
General technical data	
number of poles	3
number of poles / note	3P
tripping characteristic class	C
mechanical service life (switching cycles) / typical	10 000
overvoltage category	III
degree of pollution	2
Voltage	
insulation voltage	
• with multi-phase operation / at AC / rated value	440 V
Supply voltage	
type of voltage	AC
operational current / at AC / rated value	8 A
supply voltage / at AC / rated value	400 V

operating voltage	
• with multi-phase operation / at AC / maximum	440 V
• at DC / rated value / maximum	72 V
supply voltage frequency	
• rated value	50 Hz

Protection class	
protection class IP	IP20, with connected conductors

Switching capacity	
switching capacity current	
• acc. to EN 60898 / rated value	6 kA
• acc. to IEC 60947-2 / 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	0.7 W
suitability for operation	Residential buildings/infrastructure

Product details	
product function / neutral conductor switching	No
product feature / touch protection	Yes
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	
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height	90 mm
width	54 mm
depth	76 mm
installation depth	70 mm
number of modular width units	3
mounting position	any
net weight	360 g

Environmental conditions

influence of the surrounding temperature	Periodically +55°C, max. 95% humidity
ambient temperature	
• minimum	-25 °C
• maximum	45 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	75 °C

Certificates

reference code	
• acc. to DIN EN 61346-2	F
• acc. to IEC 81346-2	F

General Product Approval

Declaration of Conformity



[TSE](#)



EG-Konf.

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

[siemens.com/lowvoltage/catalogs](https://www.siemens.com/lowvoltage/catalogs)

Industry Mall (Online ordering system)

mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SL6308-7

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

support.industry.siemens.com/cs/ww/en/ps/5SL6308-7

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

automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL6308-7

CAX-Online-Generator

[siemens.com/cax](https://www.siemens.com/cax)

Tender specifications

[siemens.com/specifications](https://www.siemens.com/specifications)



