

Miniature circuit breaker 230 V 10kA, 1+N-pole, D, 50 A



Model	
Product brand name	SENTRON
Product designation	Miniature circuit breaker
Design of the product	5SL miniature circuit breakers
General technical data	
Number of poles	2
Number of poles / Note	1P+N
Tripping characteristic class	D
circuit-breaker / Design	5SL4
Mechanical service life (switching cycles) / typical	10 000
Overvoltage category	3
Voltage	
Insulation voltage	250 V
<ul style="list-style-type: none"> with single-phase operation / at AC / rated value 	
Supply voltage	
Type of voltage	AC
Current / at AC / rated value	50 A

Supply voltage / at AC / rated value	230 V
Operating voltage	
<ul style="list-style-type: none"> • at DC / rated value / maximum 	60 V
Supply voltage frequency	
<ul style="list-style-type: none"> • rated value 	50 Hz

Protection class	
Protection class IP	IP20, with connected conductors

Switching capacity	
Switching capacity current	
<ul style="list-style-type: none"> • acc. to EN 60898 / rated value 	10 kA
<ul style="list-style-type: none"> • acc. to IEC 60947-2 / rated value 	10 kA
Energy limiting class	3

Dissipation	
Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	3.6 W

Current	
Tripping residual / rated value / derated current / at 40 Cel	46.19 A
Suitability for operation	Residential buildings/infrastructure

Product details	
Product function / neutral conductor switching	Yes
Product feature / Touch protection	Yes
Product feature	
<ul style="list-style-type: none"> • halogen-free 	Yes
<ul style="list-style-type: none"> • sealable 	Yes
<ul style="list-style-type: none"> • silicon-free 	Yes
Product extension / can be installed / supplementary devices	Yes

Connections	
<ul style="list-style-type: none"> • Connectable conductor cross-section 	
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — solid 	0.75 ... 25 mm ²
<ul style="list-style-type: none"> <ul style="list-style-type: none"> — stranded 	0.75 ... 25 mm ²
<ul style="list-style-type: none"> • Connectable conductor cross-section / finely stranded / with core end processing 	0.75 ... 25 mm ²
Tightening torque / with screw-type terminals	2.5 ... 3 N·m

Mechanical Design	
Height	90 mm
Width	36 mm
Depth	76 mm
Installation depth	70 mm

Number of width units	2
Mounting position	any
Net weight	310 g

Environmental conditions

Influence of the surrounding temperature	+55 °C, max. 95% humidity
Ambient temperature	-25 ... +55 °C
• during storage	-40 ... +75 °C

Certificates

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

General Product Approval	Declaration of Conformity	Test Certificates
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[Miscellaneous](#)



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Further information

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=5SL4550-8>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL4550-8>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL4550-8

CAX-Online-Generator

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

Tender specifications

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



