SIEMENS

Data sheet 5SL6102-6

Miniature circuit breaker 230/400 V 6kA, 1-pole, B, 2A



Model	
Product brand name	SENTRON
Product designation	Miniature circuit breaker
Design of the product	5SL miniature circuit breakers

General technical data	
Number of poles	1
Number of poles / Note	1P
Tripping characteristic class	B
circuit-breaker / Design	5SL6
Mechanical service life (switching cycles) / typical	10 000
Overvoltage category	3

Voltage	
Type of voltage	AC
Insulation voltage	
• with single-phase operation / at AC / rated value	250 V
• with multi-phase operation / at AC / rated value	440 V

Supply voltage

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Supply voltage / at AC / rated value	400 V
Supply voltage frequency / rated value	50 Hz

Protection class	
Protection class IP	IP20, with connected conductors
Energy limiting class	3

Switching capacity	
Switching capacity current	
• acc. to EN 60898 / rated value	6 kA
• acc. to IEC 60947-2 / rated value	6 kA

Dissipation	
Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1.9 W

Electricity	
revised current / at 40 Cel	1.9 A
Current / at AC / rated value	2 A

Main circuit	
Operating voltage	
• minimum	24 V
• at DC / rated value / maximum	60 V
• with single-phase operation / at AC / maximum	250 V
• with multi-phase operation / at AC / maximum	440 V
Suitability for operation	Residential buildings/infrastructure

Product details	
Product feature / Touch protection	Yes
Product feature	
• halogen-free	Yes
• sealable	Yes
• silicon-free	Yes
Product extension / can be installed / supplementary devices	Yes

Product function	
Product function / neutral conductor switching	No

Number	
Number of test cycles / for environmental testing / acc. to IEC 60068-2-30	6

Connections	
Connectable conductor cross-section / stranded	
• minimum	0.75 mm²
• maximum	25 mm²

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Connectable conductor cross-section / solid	
• minimum	0.75 mm²
• maximum	25 mm²
Tightening torque / with screw-type terminals	
• minimum	2.5 N·m
• maximum	3 N·m

Mechanical Design

Height	90 mm
Width	18 mm
Depth	76 mm
Mounting position	any
Installation depth	70 mm
Number of width units	1
Net weight	110 g

Environmental conditions

Degree of pollution	2
Influence of the surrounding temperature	Periodically +55°C, max. 95% humidity
Ambient temperature	
• minimum	-25 °C
• maximum	45 °C
• during storage / minimum	-40 °C
• during storage / maximum	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
CEBEC	VDE	TSE	EG-Konf.	Miscellaneous

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=5SL6102-6

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/5SL6102-6

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL6102-6

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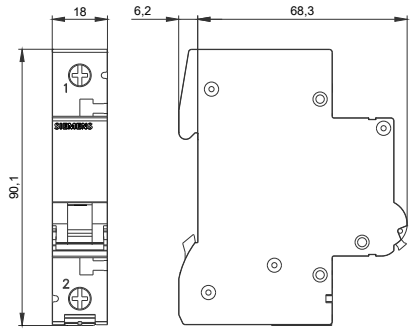
CAx-Online-Generator
http://www.siemens.com/cax

Tender specifications
http://www.siemens.com/specifications



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