SIEMENS

Data sheet 5SL6550-6

CIRCUIT BREAKER 230V 6KA, 1+N-POLE, B, 50A



Model		
product brand name		SENTRON
Product designation		Miniature circuit breakers
Design of the product		5SL miniature circuit breakers
General technical data		
Number of poles		2
Number of poles / Note		1P+N
Tripping characteristic class		B
circuit-breaker / Design		5SL6
Mechanical service life (switching cycles) / typical		20 000
Overvoltage category		3
Voltage		
Type of voltage		AC/DC
Insulation voltage		
• with single-phase operation / at AC / rated value	V	250
Supply voltage		
Supply voltage frequency / rated value	Hz	50

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Protection class		
Protection class IP		IP20, with connected conductors
Energy limiting class		3
Switching capacity		
Switching capacity current		
• acc. to EN 60898 / rated value	kA	6
• acc. to IEC 60947-2 / rated value	kA	6
Dissipation		
Power loss [W]		
• for rated value of the current / at AC / in hot operating state / per pole	W	3.8
• maximum	W	7.6
Electricity		
rated current In / IEC, DIN/VDE / at 40 Cel	A	46.96682
Current / at AC / rated value	A	50
Main circuit		
Operating voltage		
• minimum	V	24
• at DC / rated value / maximum	V	60
• with single-phase operation / at AC / maximum	V	250
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		Yes
Number		
Number of test cycles / for environmental testing / acc. to IEC 60068-2-30		6
Connections		
Connectable conductor cross-section / stranded		
• minimum	mm²	0.75
• maximum	mm²	35
Connectable conductor cross-section		
• solid		

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— minimum	mm²	0.75
— maximum	mm²	35
• finely stranded / with core end processing		
— minimum	mm²	0.75
— maximum	mm²	25
Tightening torque / with screw-type terminals		
• minimum	N·m	2.5
• maximum	N·m	3

Mechanical Design

Height	mm	90
Width	mm	72
Depth	mm	76
Mounting position		any
Installation depth	mm	70
Number of width units		2

Environmental conditions

Degree of pollution		2
Influence of the surrounding temperature		Periodically +55°C, max. 95% humidity
Ambient temperature		
• minimum	°C	-25
• maximum	°C	45
• during storage / minimum	°C	-40
• during storage / maximum	°C	75

Certificates

Equipment marking		
• acc. to DIN EN 61346-2		F
• acc. to DIN EN 81346-2		F

General Product Approval					Declaration of Conformity
CEBEC	IMQ	VDE	EAC	TSE	CE EG-Konf.

Test Certificates

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Further information

Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/lowvoltage/catalogs

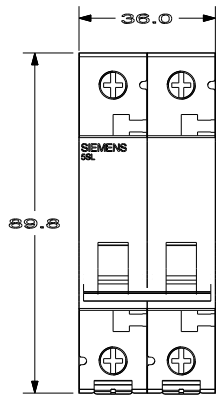
Industry Mall (Online ordering system)
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/5SL65506

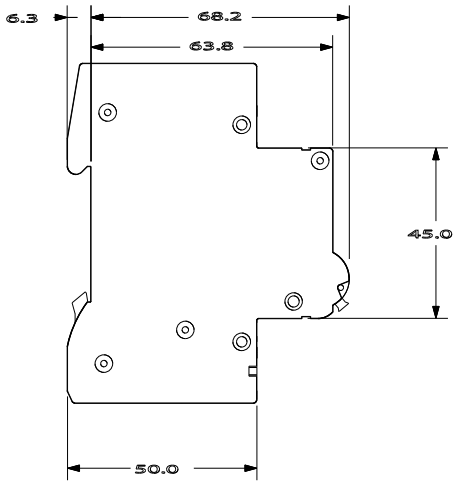
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/5SL65506/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL65506

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

Tender specifications
http://ausschreibungstexte.siemens.com/tiplv





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