SIEMENS

Data sheet 5SL6506-7



Miniature circuit breaker 230 V 6kA, 1+N-pole, C, 6A

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	III	
degree of pollution	2	
Voltage		
type of voltage of the operating voltage	AC	
insulation voltage (Ui)		
with single-phase operation at AC rated value	250 V	
Supply voltage		
supply voltage at AC rated value	230 V	
value range of the supply voltage frequency	50/60 Hz	
operating voltage		
at DC rated value maximum	72 V	
Protection class		
protection class IP	IP20, with connected conductors	
Switching capacity		
switching capacity current		
 according to EN 60898 rated value 	6 kA	
 according 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 feature		
• halogen-free	Yes	
• sealable	Yes	
• silicon-free	Yes	
product extension installable supplementary devices	Yes	
Connections		
connectable conductor cross-section solid		
• minimum	0.75 mm²	
• maximum	25 mm²	

• minimum 0.75 mm² • maximum 25 mm² connectable conductor cross-section finely stranded with core end processing - minimum • minimum 0.75 mm² • maximum 25 mm² tightening torque with screw-type terminals - minimum • miximum 3.1 m • maximum 3.3 m Mechanical Design - maximum height 90 mm width 36 mm depth 76 mm installation depth 70 mm number of modular width units 2 mounting position any net weight 210 g Environmental conditions ambient temperature during operation - 25 °C • maximum 45 °C ambient temperature during storage • minimum • minimum - 40 °C • minimum - 40 °C • minimum - 40 °C • minimum - 75 °C		
● maximum 25 mm² connectable conductor cross-section finely stranded with core end processing	connectable conductor cross-section stranded	2
connectable conductor cross-section finely stranded with core end processing • minimum • maximum 25 mm² tightening torque with screw-type terminals • minimum • maximum 2.5 N·m • maximum 2.5 N·m • maximum • maximum • maximum • 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 net weight any net weight 210 g Environmental conditions ambient temperature during operation • minimum • minim		
end processing 0.75 mm² • minimum 25 mm² tightening torque with screw-type terminals 2.5 N·m • maximum 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 210 g Environmental conditions ambient temperature during operation • minimum -25 °C • maximum 45 °C ambient temperature during storage • minimum • minimum -40 °C • minimum -40 °C • minimum -75 °C		25 mm²
● maximum 25 mm² tightening torque with screw-type terminals 2.5 N·m ● minimum 2.5 N·m ● maximum 3 N·m Mechanical Design beight 90 mm width 36 mm depth 76 mm installation depth 70 mm number of modular width units 2 mounting position any net weight 210 g Environmental conditions ambient temperature during operation 45 °C ambient temperature during storage minimum • minimum 40 °C • maximum 75 °C		
tightening torque with screw-type terminals • minimum • maximum 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 net weight 210 g Environmental conditions ambient temperature during operation • minimum • minimum • maximum 45 °C ambient temperature during storage • minimum • minimum • 40 °C • maximum • maximum 75 °C	• minimum	0.75 mm ²
● minimum 2.5 N·m ● maximum 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 210 g Environmental conditions 2 ambient temperature during operation -25 °C • maximum 45 °C ambient temperature during storage - minimum • minimum -40 °C • maximum 75 °C	maximum	25 mm²
maximum mechanical Design height midth midth midth minstallation depth mumber of modular width units mounting position met weight mounting position met weight mounting temperature during operation minimum minimum maximum minimum maximum minimum	tightening torque with screw-type terminals	
height 90 mm width 36 mm depth 76 mm installation depth 70 mm number of modular width units 2 mounting position any net weight 210 g Environmental conditions ambient temperature during operation • minimum • maximum 45 °C ambient temperature during storage • minimum • minimum • 40 °C • maximum • maximum 75 °C	• minimum	2.5 N·m
height 90 mm width 36 mm depth 76 mm installation depth 70 mm number of modular width units 2 mounting position any net weight 210 g Environmental conditions ambient temperature during operation • minimum • maximum 45 °C ambient temperature during storage • minimum • maximum -40 °C 75 °C	• maximum	3 N·m
width 36 mm depth 76 mm installation depth 70 mm number of modular width units 2 mounting position any net weight 210 g Environmental conditions ambient temperature during operation • minimum • maximum 45 °C ambient temperature during storage • minimum • minimum -40 °C • maximum 75 °C	Mechanical Design	
depth 76 mm installation depth 70 mm number of modular width units 2 mounting position any net weight 210 g Environmental conditions ambient temperature during operation	height	90 mm
installation depth 70 mm number of modular width units 2 mounting position any net weight 210 g Environmental conditions ambient temperature during operation • minimum • maximum 45 °C ambient temperature during storage • minimum • maximum 45 °C	width	36 mm
number of modular width units mounting position any net weight 210 g Environmental conditions ambient temperature during operation • minimum • maximum 45 °C ambient temperature during storage • minimum • minimum • 75 °C	depth	76 mm
mounting position any net weight 210 g Environmental conditions ambient temperature during operation • minimum • maximum 45 °C ambient temperature during storage • minimum • minimum • 75 °C	installation depth	70 mm
net weight Environmental conditions ambient temperature during operation • minimum • maximum 45 °C ambient temperature during storage • minimum • minimum • 75 °C	number of modular width units	2
ambient temperature during operation maximum minimum	mounting position	any
ambient temperature during operation • minimum • maximum 45 °C ambient temperature during storage • minimum • maximum -40 °C • maximum 75 °C	net weight	210 g
 minimum maximum 45 °C ambient temperature during storage minimum maximum 75 °C 	Environmental conditions	
	ambient temperature during operation	
ambient temperature during storage	• minimum	-25 °C
 minimum -40 °C maximum 75 °C 	• maximum	45 °C
• maximum 75 °C	ambient temperature during storage	
	• minimum	-40 °C
Approvals Certificates	• maximum	75 °C
	Approvals Certificates	

CEBEC

General Product Approval

Confirmation



TSE



CE EG-Konf.

Declaration of Con-

formity

Declaration of Conformity other Environment



Miscellaneous

Confirmation

Environmental Confirmations

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

 $Information-\ and\ Download center\ (Catalogs,\ Brochures,...)$

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SL6506-7

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

https://support.industry.siemens.com/cs/ww/en/ps/5SL6506-7

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

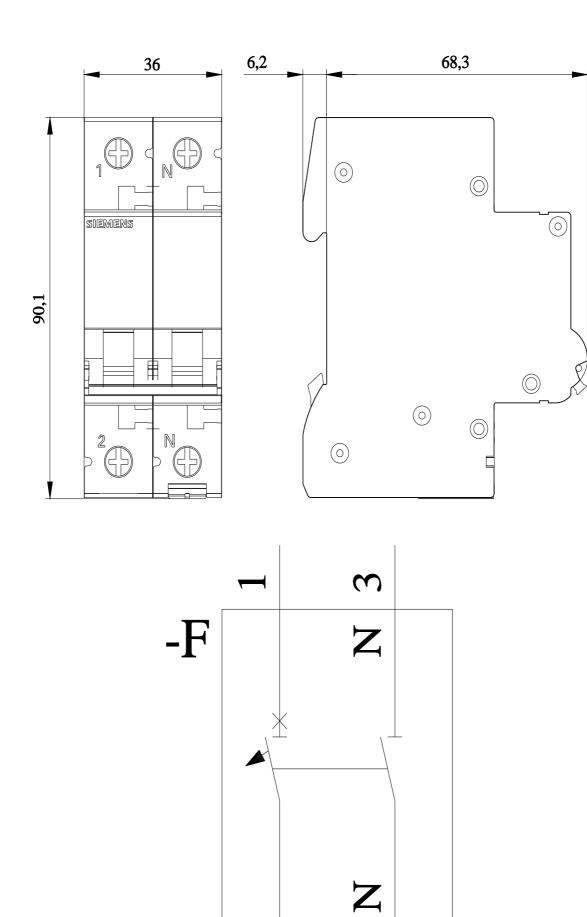
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL6506-7

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications



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