SIEMENS

Data sheet 5SL6301-7



Miniature circuit breaker 400 V 6kA, 3-pole, C, 1 A

product brand name product designation Miniature circuit breaker design of the product 5SL miniature circuit breakers Ceneral technical data number of poles 3 number of poles 3 number of poles 7 number of poles 7 number of poles 9 number of poles 9 number of poles 10 number of poles 9 number of poles 10 number of	Model	
design of the product General technical data number of poles number of poles / note tripping characteristic class mechanical service life (switching cycles) / typical overvoltage category life gear of pollution 2 Voltage insulation voltage • with multi-phase operation / at AC / rated value Supply voltage type of voltage operational current / at AC / rated value supply voltage / at AC / rated value • with multi-phase operation / at AC / maximum • at DC / rated value / maximum • at DC / rated value / supply voltage frequency • rated value • rated value protection class IP Protection class IP Protection class IP Ple20, with connected conductors Switching capacity current • acc. to IEC 60947-2 / rated value • acc. to IEC 60947-2 / rated value for AC / in hot operating state / per pole suitability for operation Residential buildings/infrastructure Product details product function / neutral conductor switching No	product brand name	SENTRON
General technical data number of poles	product designation	Miniature circuit breaker
number of poles 3 1 1 1 1 1 1 1 1 1	design of the product	5SL miniature circuit breakers
number of poles / note tripping characteristic class C mechanical service life (switching cycles) / typical 10 000 overvoltage category IIII degree of pollution 2 Voltage insulation voltage • with multi-phase operation / at AC / rated value 440 V Supply voltage type of voltage AC / rated value 400 V operational current / 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 / maximum 50 Hz • at CB / rated value / maximum 72 V supply voltage frequency • rated value / maximum 50 Hz • at CB / rated value / maximum 50 Hz switching capacity current • acc. to EN 60898 / rated value 6 kA	General technical data	
tripping characteristic class mechanical service life (switching cycles) / typical overvoltage category degree of pollution // Voltage insulation voltage	number of poles	3
mechanical service life (switching cycles) / typical overvoltage category degree of pollution 2 Voltage insulation voltage • with multi-phase operation / at AC / rated value 440 V Supply voltage type of voltage operational current / at AC / rated value 440 V supply voltage / at AC / rated value 440 V supply voltage / at AC / rated value 440 V supply voltage / at AC / rated value 440 V operating voltage • with multi-phase operation / at AC / maximum • at DC / rated value / maximum 72 V supply voltage frequency • rated value 150 Hz Protection class protection class IP Switching capacity switching capacity switching capacity switching capacity switching capacity current • acc. to EN 60898 / rated value • acc. to EC 60947-2 / rated value 6 kA • acc. to IEC 60947-2 / rated value 6 kA • acc. to IEC 60947-2 / rated value 7 Supply voltage imitation class 3 Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole suitability for operation Residential buildings/infrastructure Product details product function / neutral conductor switching	number of poles / note	3P
overvoltage category degree of pollution 2 Voltage insulation voltage • with multi-phase operation / at AC / rated value 440 V Supply voltage type of voltage type of voltage AC operational current / at AC / rated value 1 A supply voltage / at AC / rated value operating voltage • with multi-phase operation / at AC / maximum • at DC / rated value / maximum 72 V supply voltage frequency • rated value Protection class protection class IP Protection class IP Switching capacity current • acc. to EN 60898 / rated value • acc. to EN 60898 / rated value • acc. to EC 60947-2 / rated value energy limitation class Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole suitability for operation Residential buildings/infrastructure Product details product function / neutral conductor switching No	tripping characteristic class	C
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 1 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 IP Switching capacity switching capacity current • acc. to EN 60898 / rated value 6 kA • acc. to EN 60898 / rated value 6 kA energy limitation class 3 Dissipation power loss RW / for rated value of the current / at AC / in hot operating state / per pole suitability for operation Residential buildings/infrastructure Product details product function / neutral conductor switching No	mechanical service life (switching cycles) / typical	10 000
insulation voltage • with multi-phase operation / at AC / rated value **Supply voltage type of voltage operational current / at AC / rated value **1 A supply voltage / at AC / rated value operating voltage • with multi-phase operation / at AC / maximum • at DC / rated value / maximum **2 V supply voltage frequency • rated value **50 Hz **Protection class IP** Protection class IP** Switching capacity switching capacity current • acc. to EN 60898 / rated value • acc. to IEC 60947-2 / rated value energy limitation class **3 **Dissipation** power loss [W] / for rated value of the current / at AC / in hot operating state / per pole suitability for operation **Residential buildings/infrastructure Product details product function / neutral conductor switching **No** **AC** **AC**	overvoltage category	III
insulation voltage • with multi-phase operation / at AC / rated value Supply voltage type of voltage type of voltage AC operational current / at AC / rated value 1 A supply voltage / at AC / rated value operating voltage • with multi-phase operation / at AC / maximum • at DC / rated value / maximum 72 V supply voltage frequency • rated value **rotection class** protection class IP Switching capacity switching capacity current • acc. to EN 60898 / rated value • acc. to EN 60898 / rated value fo kA • acc. to IEC 60947-2 / rated value fo kA energy limitation class Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole suitability for operation Residential buildings/infrastructure Product details product function / neutral conductor switching No	degree of pollution	2
with multi-phase operation / at AC / rated value Supply voltage type of voltage operational current / at AC / rated value supply voltage / at AC / rated value operating voltage at AC / rated value operating voltage at AC / rated value operating voltage at AC / maximum outline at DC / rated value / maximum outline at DC / rated value / maximum results at DC / rated value / rated value outline at DC / rated value / rated value outline at DC / rated value / rated value outline at DC / rated value /	Voltage	
type of voltage type of voltage operational current / at AC / rated value supply voltage / at AC / rated value operating voltage • with multi-phase operation / at AC / maximum • at DC / rated value / maximum supply voltage frequency • rated value rated value 50 Hz Protection class protection class IP Switching capacity switching capacity switching capacity current • acc. to EN 60898 / rated value • acc. to IEC 60947-2 / rated value energy limitation class Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole suitability for operation Product details product function / neutral conductor switching No	insulation voltage	
type of voltage operational current / at AC / rated value operating voltage / at AC / rated value operating voltage • with multi-phase operation / at AC / maximum • at DC / rated value / maximum 72 V supply voltage frequency • rated value Protection class protection class IP Protection class IP Switching capacity switching capacity switching capacity current • acc. to EN 60898 / rated value • acc. to IEC 60947-2 / rated value energy limitation class Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole suitability for operation Product details product function / neutral conductor switching No	with multi-phase operation / at AC / rated value	440 V
operational current / at AC / rated value supply voltage / at AC / rated value operating voltage • with multi-phase operation / at AC / maximum • at DC / rated value / maximum 72 V supply voltage frequency • rated value Protection class protection class IP Switching capacity switching capacity switching capacity current • acc. to EN 60898 / rated value • acc. to IEC 60947-2 / rated value energy limitation class Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole suitability for operation Product details product function / neutral conductor switching No	Supply voltage	
supply voltage / at AC / rated value operating voltage • with multi-phase operation / at AC / maximum • at DC / rated value / maximum 72 V supply voltage frequency • rated value Frotection class protection class IP Switching capacity switching capacity switching capacity current • acc. to EN 60898 / rated value • acc. to IEC 60947-2 / rated value energy limitation class Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole suitability for operation Product details product function / neutral conductor switching No	type of voltage	AC
operating voltage • with multi-phase operation / at AC / maximum • at DC / rated value / maximum 72 V supply voltage frequency • rated value 50 Hz Protection class protection class IP Switching capacity switching capacity current • acc. to EN 60898 / rated value • acc. to IEC 60947-2 / rated value energy limitation class Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole suitability for operation Product details product function / neutral conductor switching No	operational current / at AC / rated value	1 A
with multi-phase operation / at AC / maximum at DC / rated value / maximum supply voltage frequency • rated value	supply voltage / at AC / rated value	400 V
aut DC / rated value / maximum supply voltage frequency rated value Frotection class protection class IP Switching capacity switching capacity switching capacity current acc. to EN 60898 / rated value acc. to IEC 60947-2 / rated value energy limitation class Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole suitability for operation Product details product function / neutral conductor switching No		
supply voltage frequency	with multi-phase operation / at AC / maximum	440 V
Protection class protection class IP IP20, with connected conductors Switching capacity switching capacity current ● acc. to EN 60898 / rated value ● acc. to IEC 60947-2 / rated value ● acc. to IEC 60947-2 / rated value energy limitation class Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole suitability for operation Product details product function / neutral conductor switching No	at DC / rated value / maximum	72 V
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 suitability for operation Residential buildings/infrastructure Product details product function / neutral conductor switching No	supply voltage frequency	
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 suitability for operation Residential buildings/infrastructure Product details product function / neutral conductor switching No	rated value	50 Hz
Switching capacity switching capacity current • acc. to EN 60898 / rated value • 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 suitability for operation Product details product function / neutral conductor switching No	Protection class	
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 suitability for operation Residential buildings/infrastructure Product details product function / neutral conductor switching No	protection class IP	IP20, with connected conductors
acc. to EN 60898 / rated value acc. to IEC 60947-2 / rated value ke acc. to IEC 60947-2 / rated value be	Switching capacity	
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 suitability for operation Residential buildings/infrastructure Product details product function / neutral conductor switching No	switching capacity current	
energy limitation class Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole suitability for operation Product details product function / neutral conductor switching 3 1.2 W Residential buildings/infrastructure	acc. to EN 60898 / rated value	6 kA
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole suitability for operation Product details product function / neutral conductor switching No	• acc. to IEC 60947-2 / rated value	6 kA
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole suitability for operation Product details product function / neutral conductor switching No	energy limitation class	3
hot operating state / per pole suitability for operation Residential buildings/infrastructure Product details product function / neutral conductor switching No	Dissipation	
Product details product function / neutral conductor switching No		1.2 W
product function / neutral conductor switching No	suitability for operation	Residential buildings/infrastructure
·	Product details	
product feature / touch protection Yes	product function / neutral conductor switching	No
	product feature / touch protection	Yes

product feature	
·	Yes
halogen-freesealable	Yes
seliable silicon-free	Yes
	Yes
product extension / installable / supplementary devices	res
Connections	
connectable conductor cross-section / solid	
• minimum	0.75 mm ²
• maximum	25 mm²
connectable conductor cross-section / stranded	
• minimum	0.75 mm ²
• maximum	25 mm²
connectable conductor cross-section / finely stranded / with core end processing	
• minimum	0.75 mm ²
maximum	25 mm²
tightening torque / with screw-type terminals	
• minimum	2.5 N·m
• maximum	3 N·m
Mechanical Design	
height	90 mm
width	54 mm
depth	76 mm
installation depth	70 mm
number of modular width units	3
mounting position	any
net weight	430 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	
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Declaration of Conformity



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=5SL6301-7

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/5SL6301-7

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL6301-7

Tender specifications

http://www.siemens.com/specifications



