## **SIEMENS**

Data sheet 5SL6302-7



Miniature circuit breaker 400 V 6kA, 3-pole, C, 2A

product brand name product designation Miniature circuit breaker design of the product SSL miniature circuit breakers  Ceneral technical data number of poles number of poles 13 number of poles tripping characteristic class C mechanical service life (switching cycles) / typical overvoltage category lill degree 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 2 A supply voltage • with multi-phase operation / at AC / maximum 440 V operating voltage • with multi-phase operation / at AC / maximum 72 V supply voltage • with multi-phase operation / at AC / maximum 72 V supply voltage • with multi-phase operation / at AC / maximum 72 V supply voltage for quency • rated value / maximum 72 V supply voltage frequency • rated value  Protection class protection class IP Switching capacity switching capacity switching capacity switching capacity current • acc. to EC 60947-2 / rated value • acc. to EC 60947-2 / rated value  • acc. to EC 60947-2 / rated val	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 lill degree 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 2 A supply voltage / at AC / rated value operating voltage • with multi-phase operation / at AC / maximum • at DC / rated value / maximum value / at DC / rated value / maximum value / at DC / rated value / supply voltage frequency • rated value  protection class IP  Protection class IP  IP20, with connected conductors  Switching capacity current • acc. to IEC 60947-2 / rated value • acc. to IEC 60947-2 / rated value feed walue feed walue • acc. to IEC 60947-2 / rated value energy limitation class  Dissipation power loss [M] / 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	product brand name	SENTRON
Semeral technical data   number of poles   3   3   3   3   3   1   3   3   1   3   3	product designation	Miniature circuit breaker
number of poles   3   3   3   3   3   3   3   3   3	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  Protection class IP Switching capacity current • acc. to EN 60898 / rated value 6 kA • acc. to IEC 60947-2 / rated value 6 kA energy limitation class 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	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 2 A supply voltage / at AC / rated value operating voltage • with multi-phase operation / at AC / maximum 440 V  operating voltage • with multi-phase operation / at AC / maximum 2 2 V supply voltage / at AC / rated value operating voltage • with multi-phase operation / at AC / maximum 2 2 V supply voltage frequency • rated value / maximum 72 V  supply voltage frequency • rated value 50 Hz  Protection class protection class IP Switching capacity switching capacity switching capacity current • acc. to EN 60898 / rated value • acc. to EN 60898 / 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 8 Supply voltage imitation class 7 Supply voltage imitation class 8 Supply voltage imitation class 9 Supply voltage imitation class 1 Supply voltage 1 Supply voltage 1 Supply voltage 1 Supply voltage 2 A 2 A 3 Supply voltage 3 Supply voltage 4 Supply voltage 5 Supply voltage 6 KA 6 KA 7 Supply voltage 7 Supply voltage 8 Supply voltage 8 Supply voltage 9 Su	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 operational current / at AC / rated value 2 A supply voltage / at AC / rated value operating voltage • with multi-phase operation / at AC / maximum • at DC / rated value / maximum  at DC / rated value / maximum  72 V  supply voltage frequency • rated value  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  Product details product function / neutral conductor switching  No	tripping characteristic class	С
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 2, A supply voltage / at AC / rated value 400 V operating voltage ewith 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 energy limitation class  Dissipation  power loss RW / 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	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  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  Protection class IP  Switching capacity  switching capacity current  • acc. to EN 60898 / rated value  • acc. to EN 60898 / rated value  • acc. to IEC 60947-2 / rate	overvoltage category	III
insulation voltage  • with multi-phase operation / at AC / rated value  Supply voltage  type of voltage  operational current / at AC / rated value  2 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  Switching capacity  switching capacity current  • acc. to EN 60898 / rated value  • acc. to IEC 60947-2 / rated value  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	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  with multi-phase operation / at AC / maximum  at DC / rated value / maximum  at DC / rated value / maximum  to at DC / rated value / maximum  at DC / rated value / maximum  results frequency  are rated value  rotection class  protection class IP  Switching capacity  switching capacity current  acc. to EN 60898 / rated value  acc. to EN 60898 / rated value  acc. to IEC 60947-2 / rated v	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  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	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 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	<ul> <li>with multi-phase operation / at AC / rated value</li> </ul>	440 V
operational current / at AC / rated value 2 A supply voltage / at AC / rated value 400 V operating voltage  • with multi-phase operation / at AC / maximum 72 V supply voltage frequency • rated value 50 Hz  Protection class protection class IP IP20, with connected conductors  Switching capacity 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  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	
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 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**  **A40 V  **440 V  **440 V  **440 V  **440 V  ***  **Paud V  **Product details*  **product function / neutral conductor switching  **No**  **A40 V  **A40 V  **A40 V  **Paud V  **Product details*  **product function / neutral conductor switching  **No**  **A40 V  **Paud V  **A40 V  **Paud V  **Product details*  **product function / neutral conductor switching  **No**  **A40 V  **A40 V  **A40 V  **A40 V  **A40 V  **Product details*  **product function / neutral conductor switching  **No**  **A40 V  **A40 V  **A40 V  **A40 V  **Product details*  **product function / neutral conductor switching  **No**  **Product details*  **product function / neutral conductor switching  **No**  **Product details*  **product function / neutral conductor switching  **No**  **Product details*  **product function / neutral conductor switching  **No**  **Product details*  **product function / neutral conductor switching  **Product function / neutral conductor switc	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  IP20, with connected conductors  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	2 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
at DC / rated value / maximum  supply voltage frequency  rated value  frotection class  protection class IP  IP20, with connected conductors  Switching capacity  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  for 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	operating voltage	
supply voltage frequency	<ul><li>with multi-phase operation / at AC / maximum</li></ul>	440 V
• rated value 50 Hz  Protection class 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	at DC / rated value / maximum	72 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 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	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  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  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  6 kA  1.2 W  Residential buildings/infrastructure	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	<ul><li>acc. to EN 60898 / rated value</li></ul>	6 kA
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	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  1.2 W Residential buildings/infrastructure  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	
halogen-free	Yes
sealable	Yes
selicon-free	Yes
product extension / installable / supplementary devices	Yes
Connections	165
connectable conductor cross-section / solid	
minimum	0.75 mm²
• maximum	25 mm²
connectable conductor cross-section / stranded	0.75 mass?
• minimum	0.75 mm <sup>2</sup>
• maximum	25 mm²
connectable conductor cross-section / finely stranded / with core end processing	
• minimum	0.75 mm <sup>2</sup>
maximum	25 mm <sup>2</sup>
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	360 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,...) <a href="http://www.siemens.com/lowvoltage/catalogs">http://www.siemens.com/lowvoltage/catalogs</a>

Industry Mall (Online ordering system)



https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SL6302-7

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) <a href="https://support.industry.siemens.com/cs/ww/en/ps/5SL6302-7">https://support.industry.siemens.com/cs/ww/en/ps/5SL6302-7</a>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=5SL6302-7">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=5SL6302-7</a>

**Tender specifications** 

http://www.siemens.com/specifications



