## **SIEMENS**

Data sheet 5SL3102-7



Miniature circuit breaker 230/400 V 4.5 kA, 1-pole, C, 2A

Figure similar

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	1
design of pole	1P
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
type of voltage	Use only in alternating current or direct current circuits. Mixed use is not permitted.
insulation voltage (Ui)	
<ul> <li>with single-phase operation at AC rated value</li> </ul>	250 V
<ul> <li>with multi-phase operation at AC rated value</li> </ul>	440 V
operational current	
• at 30 °C rated value	2 A
<ul> <li>at 40 °C rated value</li> </ul>	1.9 A
• at 55 °C rated value	1.75 A
at AC rated value	2 A
Supply voltage	
supply voltage at AC	400 V
value range of the supply voltage frequency	50/60 Hz
operating voltage	
<ul> <li>with multi-phase operation at AC maximum</li> </ul>	440 V
<ul> <li>at DC rated value maximum</li> </ul>	62.5 V
•	The operational voltage 62,5V DC/pole takes into account a battery charging voltage with peak value of 72V
Protection class	
protection class IP	IP20, with connected conductors
Breaking Capacity	
switching capacity current	
<ul> <li>according to EN 60898 rated value</li> </ul>	4.5 kA
according to IEC 60947-2 rated value	5 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 feature touch protection product component neutral conductor switching product feature touch protection		
Product feature touch protection Yes product reature touch protection Yes product component neutral conductor switching No product feature   • halogen-free Yes • sealable Yes • silicon-free Yes product extension installable supplementary devices Yes Connectable Conductor cross-section solid • minimum 0.75 mm² • maximum 25 mm² • minimum 0.75 mm² • 25		1.2 W
product feature touch protection Yes product component neutral conductor switching No product feature	suitability for operation	Residential buildings/infrastructure
product component neutral conductor switching product feature	Product details	
product feature	product feature touch protection	Yes
halogen-free     sealable     sealable     selicon-free     yes     product extension installable supplementary devices  Connectable     minimum	product component neutral conductor switching	No
Sealable Silicon-free Silicon-free Silicon-free Sonnectable conductor cross-section solid Initial minimum Inimum	product feature	
• silicon-free Yes  product extension installable supplementary devices  Connections  connectable conductor cross-section solid  • minimum  • maximum  connectable conductor cross-section stranded  • minimum  onaximum  connectable conductor cross-section stranded  • minimum  • maximum  connectable conductor cross-section stranded  • minimum  • maximum  connectable conductor cross-section finely stranded with core end processing  • minimum  • maximum  connectable conductor cross-section finely stranded with core end processing  • minimum  • maximum  25 mm²  tightening torque with screw-type terminals  • minimum  • maximum  3 N·m  Mechanical Design  height  90 mm  width  18 mm  depth  76 mm  installation depth  70 mm  number of modular width units  1  mounting position  any  net weight  1333 g  Environmental conditions  ambient temperature during operation  • minimum  • 25 °C  • maximum  40 °C  ambient temperature during storage  • minimum  • maximum  • 40 °C  • maximum  • maxim	<ul><li>halogen-free</li></ul>	Yes
product extension installable supplementary devices  Connectable  connectable conductor cross-section solid  • minimum  • maximum  connectable conductor cross-section stranded  • minimum  • maximum  connectable conductor cross-section stranded  • minimum  • maximum  connectable conductor cross-section finely stranded with core end processing  • minimum  • maximum  connectable conductor cross-section finely stranded with core end processing  • minimum  • maximum  25 mm²  tightening torque with screw-type terminals  • minimum  • maximum  Mechanical Design  height  yo mm  width  18 mm  depth  76 mm  installation depth  70 mm  number of modular width units  1  mounting position  any  net weight  mounting position  any  net weight  any  net temperature during operation  • minimum  • 25 °C  • minimum  • maximum  40 °C  • minimum  • maximum  75 °C	• sealable	Yes
Connectable conductor cross-section solid  • minimum  • maximum  connectable conductor cross-section stranded  • minimum  • maximum  connectable conductor cross-section stranded  • minimum  • maximum  connectable conductor cross-section finely stranded with core end processing  • minimum  • maximum  consectable 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  Mechanical Design  height  90 mm  width  18 mm  depth  76 mm  inistallation depth  70 mm  number of modular width units  1  mounting position  any  net weight  Environmental conditions  ambient temperature during operation  • minimum  • 25 °C  • maximum  40 °C  ambient temperature during storage  • minimum  • maximum  40 °C  • minimum  • maximum  •	• silicon-free	Yes
connectable conductor cross-section solid  iminimum  imaximum  connectable conductor cross-section stranded  iminimum  omaximum  connectable conductor cross-section stranded  iminimum  omaximum  connectable conductor cross-section finely stranded with  connectable conductor cross-section stranded  implimum  omaximum  on maximum  on minimum  o	product extension installable supplementary devices	Yes
minimum maximum minimum minim	Connections	
maximum     connectable conductor cross-section stranded     minimum     maximum     connectable conductor cross-section finely stranded with core end processing     minimum     maximum     consainum     maximum     conductor cross-section finely stranded with core end processing     minimum     maximum     conductor cross-section finely stranded with core end processing     minimum     conductor cross-section finely stranded with core end processing     minimum     conductor cross-section finely stranded with core end processing     maximum     conductor cross-section finely stranded with core end processing     minimum     conductor cross-section finely stranded with core end processing     conductor cross-section finely stranded with core end processing     conductor cross-section strand	connectable conductor cross-section solid	
connectable conductor cross-section stranded  • minimum  • maximum  connectable conductor cross-section finely stranded with core end processing  • minimum  • maximum  • maximum  25 mm²  connectable conductor cross-section finely stranded with core end processing  • minimum  • maximum  25 mm²  tightening torque with screw-type terminals  • minimum  • maximum  3 N·m  Mechanical Design  height  90 mm  width  depth  76 mm  installation depth  70 mm  number of modular width units  1 mounting position  number of modular width units  1 mounting position  any  net weight  133 g  Environmental conditions  ambient temperature during operation  • minimum  • 25 °C  ambient temperature during storage  • minimum  • 45 °C  ambient temperature during storage  • minimum  • maximum  -40 °C  -75 °C	• minimum	0.75 mm²
minimum     maximum     maximum     maximum     monectable conductor cross-section finely stranded with core end processing     minimum     maximum     maximum  Mechanical Design  Height     maximum     maximum     maximum  Mechanical Design  Form  Installation depth     maximum  Installation depth     maximum  Installation depth     mumber of modular width units     maximum     maxi	• maximum	25 mm²
maximum     connectable conductor cross-section finely stranded with core end processing     minimum     maximum     maximum     25 mm²  tightening torque with screw-type terminals     minimum     maximum     3 N·m  maximum     3 N·m  Mechanical Design  height     90 mm width     18 mm depth     76 mm installation depth     70 mm number of modular width units     1 mounting position net weight     133 g  Environmental conditions  ambient temperature during operation     maximum     45 °C  ambient temperature during storage     minimum     -25 °C     ambient temperature during storage     minimum     -40 °C     maximum     75 °C	connectable conductor cross-section stranded	
connectable conductor cross-section finely stranded with core end processing  • minimum  • maximum  25 mm²  tightening torque with screw-type terminals  • minimum  • maximum  3 N·m  Mechanical Design  height  90 mm  width  18 mm  depth  installation depth  number of modular width units  mounting position  net weight  133 g  Environmental conditions  ambient temperature during operation  • minimum  • maximum  45 °C  ambient temperature during storage  • minimum  • avinum  • maximum  -40 °C  75 °C	• minimum	0.75 mm²
core end processing	• maximum	25 mm²
tightening torque with screw-type terminals  • minimum • maximum 3 N·m  Mechanical Design  height 90 mm width 18 mm depth 76 mm installation depth 70 mm number of modular width units 1 mounting position any net weight 133 g  Environmental conditions  ambient temperature during operation • minimum • minimum • -25 °C ambient temperature during storage • minimum • minimum • 45 °C  ambient temperature during storage • minimum • maximum • maximum • maximum • maximum • maximum • 75 °C	• minimum	0.75 mm²
	maximum	25 mm²
● maximum         3 N·m           Mechanical Design           height         90 mm           width         18 mm           depth         76 mm           installation depth         70 mm           number of modular width units         1           mounting position         any           net weight         133 g           Environmental conditions         ambient temperature during operation           ● minimum         -25 °C           ● maximum         45 °C           ambient temperature during storage         minimum           ● minimum         -40 °C           ● maximum         75 °C	tightening torque with screw-type terminals	
Mechanical Design       height     90 mm       width     18 mm       depth     76 mm       installation depth     70 mm       number of modular width units     1       mounting position     any       net weight     133 g       Environmental conditions       ambient temperature during operation     -25 °C       • maximum     45 °C       ambient temperature during storage     -40 °C       • minimum     -40 °C       • maximum     75 °C	• minimum	2.5 N·m
height 90 mm  width 18 mm  depth 76 mm  installation depth 70 mm  number of modular width units 1  mounting position any net weight 133 g  Environmental conditions  ambient temperature during operation  • minimum 45 °C  ambient temperature during storage  • minimum -40 °C  amaximum 75 °C	maximum	3 N·m
width 18 mm  depth 76 mm  installation depth 70 mm  number of modular width units 1  mounting position any net weight 133 g  Environmental conditions  ambient temperature during operation  • minimum 45 °C  ambient temperature during storage  • minimum -40 °C  amaximum 75 °C	Mechanical Design	
depth 76 mm installation depth 70 mm number of modular width units 1 mounting position any net weight 133 g  Environmental conditions ambient temperature during operation • minimum -25 °C • maximum 45 °C  ambient temperature during storage • minimum -40 °C • maximum 75 °C	height	90 mm
installation depth 70 mm  number of modular width units 1  mounting position any  net weight 133 g  Environmental conditions  ambient temperature during operation  • minimum -25 °C  • maximum 45 °C  ambient temperature during storage  • minimum -40 °C  • maximum 75 °C	width	18 mm
number of modular width units  mounting position any net weight 133 g  Environmental conditions  ambient temperature during operation • minimum • maximum 45 °C  ambient temperature during storage • minimum • maximum -40 °C • maximum 75 °C	depth	76 mm
mounting position  net weight  133 g  Environmental conditions  ambient temperature during operation  • minimum  • maximum  45 °C  ambient temperature during storage  • minimum  -40 °C  • maximum  75 °C	installation depth	70 mm
net weight  Environmental conditions  ambient temperature during operation  • minimum  • maximum  • maximum  45 °C  ambient temperature during storage  • minimum  • maximum  -40 °C  • maximum  75 °C	number of modular width units	1
Environmental conditions  ambient temperature during operation  • minimum  • maximum  • maximum  45 °C  ambient temperature during storage  • minimum  • maximum  -40 °C  • maximum  75 °C	mounting position	any
ambient temperature during operation  • minimum  • maximum  45 °C  ambient temperature during storage  • minimum  • maximum  -40 °C  • maximum  75 °C	net weight	133 g
<ul> <li>minimum</li> <li>-25 °C</li> <li>maximum</li> <li>45 °C</li> </ul> ambient temperature during storage <ul> <li>minimum</li> <li>-40 °C</li> <li>maximum</li> <li>75 °C</li> </ul>	Environmental conditions	
<ul> <li>maximum</li> <li>45 °C</li> <li>ambient temperature during storage</li> <li>minimum</li> <li>maximum</li> <li>75 °C</li> </ul>	ambient temperature during operation	
ambient temperature during storage  ■ minimum  ■ maximum  -40 °C  75 °C	• minimum	-25 °C
<ul> <li>minimum</li> <li>-40 °C</li> <li>maximum</li> <li>75 °C</li> </ul>	maximum	45 °C
• maximum 75 °C	ambient temperature during storage	
	• minimum	-40 °C
Approvals Certificates	• maximum	75 °C
	Approvals Certificates	











Miscellaneous



other **Environment** 

Environmental Con-firmations Confirmation **Environmental Con-Miscellaneous firmations** 

Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875

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=5SL3102-7

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

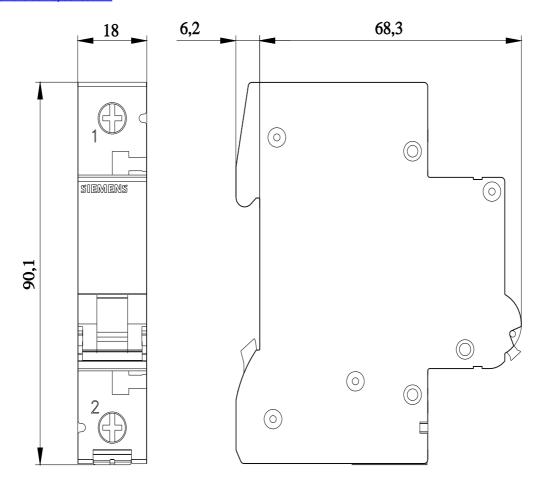
https://support.industry.siemens.com/cs/ww/en/ps/5SL3102-7

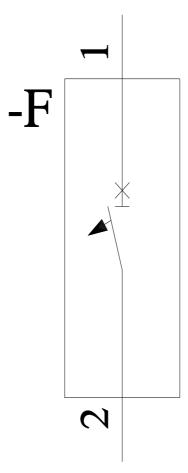
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=5SL3102-7

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

Tender specifications

http://www.siemens.com/specifications





last modified: 4/14/2025 🖸