



Miniature circuit breaker 230/400 V 6kA, 1-pole, C, 2A, D=70 mm

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 (switching cycles) / typical	10 000
overvoltage category	III
degree of pollution	3
Voltage	
type of voltage / of the operating voltage	AC
insulation voltage (U <sub>i</sub> )	
• with single-phase operation / at AC / rated value	440 V
• with multi-phase operation / at AC / rated value	440 V
supply voltage / with single-phase operation / at AC / rated value	230 V
Supply voltage	
supply voltage	
• at AC / rated value	400 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	
• at DC / according to IEC 60947-2 / rated value	15 kA
• according to EN 60898 / rated value	6 kA
• according to IEC 60947-2 / rated value	30 kA
energy limitation class	3
Dissipation	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1.2 W
Current	
operational current	
• at 35 °C / rated value	2 A
• at 40 °C / rated value	1.9 A
• at 45 °C / rated value	1.85 A
• at 50 °C / rated value	1.8 A

<ul style="list-style-type: none"> <li>at 55 °C / rated value</li> <li>at AC / rated value</li> </ul>	1.75 A 2 A
suitability for operation	Mechanical engineering / industry
<b>Product details</b>	
product component / neutral conductor switching	No
product feature / touch protection	Yes
product component <ul style="list-style-type: none"> <li>combined terminal top</li> <li>combined terminal bottom</li> </ul>	Yes Yes
product feature <ul style="list-style-type: none"> <li>properties for main switches in accordance with EN 60204-1</li> <li>halogen-free</li> <li>sealable</li> <li>silicon-free</li> </ul>	Yes Yes Yes Yes
product extension / installable / supplementary devices	Yes
<b>Short circuit</b>	
breaking capacity short-circuit current (I <sub>cn</sub> ) <ul style="list-style-type: none"> <li>at AC / according to UL 1077 and CSA C22.2 No.235</li> </ul>	5 kA
<b>Connections</b>	
connectable conductor cross-section / solid <ul style="list-style-type: none"> <li>minimum</li> <li>maximum</li> </ul>	0.75 mm <sup>2</sup> 35 mm <sup>2</sup>
connectable conductor cross-section / stranded <ul style="list-style-type: none"> <li>minimum</li> <li>maximum</li> </ul>	0.75 mm <sup>2</sup> 35 mm <sup>2</sup>
connectable conductor cross-section / finely stranded / with core end processing <ul style="list-style-type: none"> <li>minimum</li> <li>maximum</li> </ul>	0.75 mm <sup>2</sup> 25 mm <sup>2</sup>
AWG number / as coded connectable conductor cross section <ul style="list-style-type: none"> <li>minimum</li> <li>maximum</li> </ul>	18 4
tightening torque [lbf-in] / with screw-type terminals <ul style="list-style-type: none"> <li>minimum</li> <li>maximum</li> </ul>	22 lbf-in 31 lbf-in
tightening torque / with screw-type terminals <ul style="list-style-type: none"> <li>minimum</li> <li>maximum</li> </ul>	2.5 N·m 3.5 N·m
position / of power supply cord	Any
<b>Mechanical Design</b>	
height	90 mm
width	18 mm
depth	76 mm
installation depth	70 mm
number of modular width units	1
fastening method	Quick assembly system
mounting position	any
net weight	153 g
<b>Environmental conditions</b>	
influence of the surrounding temperature	max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C
standard	IEC / EN 60898-1, IEC / EN 60947-2 / UL1077
vibration resistance / according to IEC 60068-2-6	±1mm at 5 to 25Hz; 50m/s <sup>2</sup> at 25 to 150Hz
ambient temperature / during operation <ul style="list-style-type: none"> <li>minimum</li> <li>maximum</li> </ul>	-25 °C 55 °C
ambient temperature / during storage <ul style="list-style-type: none"> <li>minimum</li> </ul>	-40 °C

• maximum	75 °C
number of test cycles / for environmental testing / according to IEC 60068-2-30	6

### Certificates

reference code	
• according to EN 61346-2	F
• according to IEC 81346-2	F

### General Product Approval

[Confirmation](#)



[Miscellaneous](#)

### General Product Approval

[KC](#)



[Miscellaneous](#)



[UK Declaration of Conformity](#)



### Test Certificates

Marine / Shipping

[Miscellaneous](#)



### other

[Miscellaneous](#)

### 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=5SY6102-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY6102-7>

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

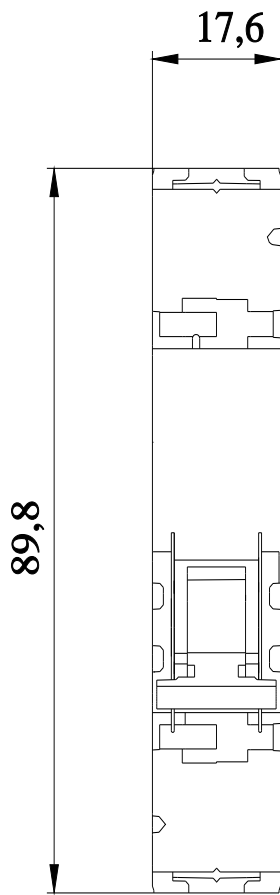
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY6102-7](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY6102-7)

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>



**CB**



