



Miniature circuit breaker 230/400 V 10kA, 1-pole, D, 13 A, D=70 mm

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	1
number of poles / note	1P
tripping characteristic class	D
mechanical service life (switching cycles) / typical	10 000
overvoltage category	III
degree of pollution	3
Voltage	
insulation voltage	
• 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	
type of voltage	AC
operational current / at AC / rated value	13 A
supply voltage	
• at AC / rated value	400 V
operating voltage / at DC / rated value / maximum	72 V
supply voltage frequency / rated value	50/60 Hz
Protection class	
protection class IP	IP20, with connected conductors
Switching capacity	
switching capacity current	
• at DC / acc. to IEC 60947-2 / rated value	15 kA
• acc. to EN 60898 / rated value	10 kA
• acc. to IEC 60947-2 / rated value	20 kA
Dissipation	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1.4 W
suitability for operation	Mechanical engineering / industry
Product details	
product function / 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>	<p>Yes</p> <p>Yes</p>
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>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
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 / acc. 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>	<p>0.75 mm<sup>2</sup></p> <p>35 mm<sup>2</sup></p>
connectable conductor cross-section / stranded	
<ul style="list-style-type: none"> <li>minimum</li> <li>maximum</li> </ul>	<p>0.75 mm<sup>2</sup></p> <p>35 mm<sup>2</sup></p>
connectable conductor cross-section / finely stranded / with core end processing	
<ul style="list-style-type: none"> <li>minimum</li> <li>maximum</li> </ul>	<p>0.75 mm<sup>2</sup></p> <p>25 mm<sup>2</sup></p>
AWG number / as coded connectable conductor cross section	
<ul style="list-style-type: none"> <li>minimum</li> <li>maximum</li> </ul>	<p>18</p> <p>4</p>
tightening torque [lbf-in] / with screw-type terminals	
<ul style="list-style-type: none"> <li>minimum</li> <li>maximum</li> </ul>	<p>22 lbf-in</p> <p>31 lbf-in</p>
tightening torque / with screw-type terminals	
<ul style="list-style-type: none"> <li>minimum</li> <li>maximum</li> </ul>	<p>2.5 N-m</p> <p>3.5 N-m</p>
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	157 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
vibration resistance / acc. 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>	<p>-40 °C</p> <p>70 °C</p>
ambient temperature / during storage	
<ul style="list-style-type: none"> <li>minimum</li> <li>maximum</li> </ul>	<p>-40 °C</p> <p>75 °C</p>
number of test cycles / for environmental testing / acc. to IEC 60068-2-30	6
<b>Certificates</b>	
reference code	
<ul style="list-style-type: none"> <li>acc. to DIN EN 61346-2</li> <li>acc. to IEC 81346-2</li> </ul>	<p>F</p> <p>F</p>

## General Product Approval



[Miscellaneous](#)

## General Product Approval

## Declaration of Conformity

## Test Certificates

## Marine / Shipping



[Miscellaneous](#)

[Special Test Certificate](#)



## Marine / Shipping

## Railway



[Confirmation](#)

[Vibration and Shock](#)

## 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=5SY4113-8>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY4113-8>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY4113-8](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4113-8)

Tender specifications

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

