

Miniature circuit breaker 230/400 V 6kA, 1-pole, C, 10A, 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	C
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	10 A
<ul style="list-style-type: none"> <li>• supply voltage / at AC / rated value</li> </ul>	400 V
operating voltage	
<ul style="list-style-type: none"> <li>• at DC / rated value / maximum</li> </ul>	72 V
supply voltage frequency	
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	50/60 Hz

#### Protection class

protection class IP	IP20, with connected conductors
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#### Switching capacity

switching capacity current	
<ul style="list-style-type: none"> <li>• at DC / acc. to IEC 60947-2 / rated value</li> </ul>	15 kA
<ul style="list-style-type: none"> <li>• acc. to EN 60898 / rated value</li> </ul>	6 kA
<ul style="list-style-type: none"> <li>• acc. to IEC 60947-2 / rated value</li> </ul>	15 kA
energy limitation class	3

#### Dissipation

power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1.1 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> </ul>	Yes
<ul style="list-style-type: none"> <li>• combined terminal bottom</li> </ul>	Yes
product feature	
<ul style="list-style-type: none"> <li>• properties for main switches in accordance with EN 60204-1</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• halogen-free</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• sealable</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• silicon-free</li> </ul>	Yes
product extension / installable / supplementary devices	Yes

#### Short circuit

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

#### Connections

connectable conductor cross-section / solid	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	0.75 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	35 mm <sup>2</sup>

connectable conductor cross-section / stranded	
• minimum	0.75 mm <sup>2</sup>
• maximum	35 mm <sup>2</sup>
connectable conductor cross-section / finely stranded / with core end processing	
• minimum	0.75 mm <sup>2</sup>
• maximum	25 mm <sup>2</sup>
AWG number / as coded connectable conductor cross section	
• minimum	18
• maximum	4
tightening torque [lbf-in] / with screw-type terminals	
• minimum	22 lbf-in
• maximum	31 lbf-in
tightening torque / with screw-type terminals	
• minimum	2.5 N·m
• maximum	3.5 N·m
position / of power supply cord	Any

### Mechanical Design

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	158 g

### Environmental conditions

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	
• minimum	-25 °C
• maximum	55 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	75 °C
number of test cycles / for environmental testing / acc. to IEC 60068-2-30	6

### Certificates

reference code	
• acc. to DIN EN 61346-2	F
• acc. to IEC 81346-2	F

## General Product Approval



CCC



IMQ



UR



VDE



CB

[Miscellaneous](#)

## General Product Approval

## Declaration of Conformity

## Test Certificates

## Marine / Shipping



RCM

[KC](#)



EG-Konf.

[Miscellaneous](#)



ABS

## Marine / Shipping



LRS



RINA



DNVGL.COM/AF

## 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=5SY6110-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY6110-7>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY6110-7](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY6110-7)

### CAX-Online-Generator

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

### Tender specifications

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



