

Miniature circuit breaker 400 V 6kA, 3+N-pole C, 20 A, D=70 mm



Model	
Product brand name	SENTRON
Product designation	Miniature circuit breaker
General technical data	
Number of poles	4
Number of poles / Note	3P+N
Tripping characteristic class	C
circuit-breaker / Design	5SY6
Mechanical service life (switching cycles) / typical	10 000
Oversvoltage category	III
Voltage	
Insulation voltage	
<ul style="list-style-type: none"> <li>with single-phase operation / at AC / rated value</li> </ul>	440 V
<ul style="list-style-type: none"> <li>with multi-phase operation / at AC / rated value</li> </ul>	440 V
Supply voltage	
Type of voltage	AC
Current / at AC / rated value	20 A

Supply voltage	
<ul style="list-style-type: none"> <li>• 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

<b>Protection class</b>	
Protection class IP	IP20, with connected conductors

<b>Switching capacity</b>	
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 limiting class	3

<b>Dissipation</b>	
Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1.7 W
Suitability for operation	Mechanical engineering / industry

<b>Product details</b>	
Product function / neutral conductor switching	Yes
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 / can be installed / 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>	
<ul style="list-style-type: none"> <li>• Connectable conductor cross-section</li> </ul>	
<ul style="list-style-type: none"> <li>— solid</li> </ul>	0.75 ... 35 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>— stranded</li> </ul>	0.75 ... 35 mm <sup>2</sup>

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

Mechanical Design	
Height	90 mm
Width	72 mm
Depth	76 mm
Installation depth	70 mm
Number of width units	4
Mounting type	Quick assembly system
Mounting position	any
Net weight	621 g

Environmental conditions	
Influence of the surrounding temperature	max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C
Ambient temperature	-25 ... +55 °C
• during storage	-40 ... +75 °C

Certificates	
Reference code	
• acc. to DIN EN 61346-2	F
• acc. to DIN EN 81346-2	F

#### General Product Approval



[Miscellaneous](#)



Declaration of Conformity	Test Certificates	Shipping Approval			
<p>EG-Konf.</p>	<p><a href="#">Miscellaneous</a></p>	<p>ABS</p>	<p>BUREAU VERITAS</p>	<p>LRS</p>	<p>RINA</p>

#### 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=5SY6620-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY6620-7>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY6620-7](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY6620-7)

**CAX-Online-Generator**

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

**Tender specifications**

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





