

CIRCUIT BREAKER DC 220V 10KA, 1POLE, C, 40A



Model	
product brandname	SENTRON
Product designation	Miniature circuit breakers
General technical data	
Number of poles	1
Number of poles / Note	1P
Tripping characteristic class	C
circuit-breaker / Design	5SY5CC
Mechanical service life (switching cycles) / typical	20 000
Overvoltage category	3
Voltage	
Type of voltage	DC
Insulation voltage	250 V
• at DC / rated value	
Protection class	
Protection class IP	IP20, with connected conductors
Switching capacity	

<b>Switching capacity current</b>	
<ul style="list-style-type: none"> <li>at DC / acc. to IEC 60947-2 / rated value</li> </ul>	10 kA
<b>Dissipation</b>	
<b>Power loss [W]</b>	
<ul style="list-style-type: none"> <li>for rated value of the current / at AC / in hot operating state / per pole</li> </ul>	3.7 W
<ul style="list-style-type: none"> <li>maximum</li> </ul>	3.7 W
<b>Electricity</b>	
Current / at AC / rated value	40 A
<b>Product details</b>	
Product feature / Touch protection	Yes
<b>Product component</b>	
<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
<b>Product feature</b>	
<ul style="list-style-type: none"> <li>Properties for main switches in accordance with EN 60204-1</li> </ul>	No
<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>Product function</b>	
Product function / neutral conductor switching	No
<b>Number</b>	
Number of test cycles / for environmental testing / acc. to IEC 60068-2-30	28
<b>Connections</b>	
<b>Connectable conductor cross-section / stranded</b>	
<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>
<b>Connectable conductor cross-section</b>	
<ul style="list-style-type: none"> <li>solid <ul style="list-style-type: none"> <li>— minimum</li> <li>— maximum</li> </ul> </li> <li>finely stranded / with core end processing <ul style="list-style-type: none"> <li>— minimum</li> <li>— maximum</li> </ul> </li> </ul>	0.75 mm <sup>2</sup>
	35 mm <sup>2</sup>
	0.75 mm <sup>2</sup>
	25 mm <sup>2</sup>
<b>Tightening torque [lbf-in] / with screw-type terminals</b>	
<ul style="list-style-type: none"> <li>minimum</li> </ul>	22 lbf-in

<ul style="list-style-type: none"> <li>• maximum</li> </ul>	26 lbf·in
<b>Tightening torque / with screw-type terminals</b>	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	2.5 N·m
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	3 N·m

### Mechanical Design

<b>Height</b>	90 mm
<b>Width</b>	18 mm
<b>Depth</b>	76 mm
<b>Mounting position</b>	any
<b>Installation depth</b>	70 mm
<b>Number of width units</b>	1
<b>Mounting type</b>	Quick assembly system
<b>Net weight</b>	140 g

### Environmental conditions

<b>Influence of the surrounding temperature</b>	Max. 95% humidity
Shock resistance / acc. to IEC 60068-2-27	150m/s <sup>2</sup> at 11ms half-sine
Vibration resistance / acc. to IEC 60068-2-6	50m/s <sup>2</sup> at 25 to 150Hz and 60m/s <sup>2</sup> at 35Hz (4sec)
<b>Ambient temperature</b>	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	-25 °C
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	55 °C
<ul style="list-style-type: none"> <li>• during storage / minimum</li> </ul>	-40 °C
<ul style="list-style-type: none"> <li>• during storage / maximum</li> </ul>	75 °C

### Certificates

Equipment marking / acc. to DIN EN 61346-2	F
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<b>General Product Approval</b>	<b>Declaration of Conformity</b>	<b>Test Certificates</b>
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### 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=5SY5140-7CC>

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

<http://support.automation.siemens.com/WWW/view/en/5SY5140-7CC/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY5140-7CC](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY5140-7CC)

**CAX-Online-Generator**

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

**Tender specifications**

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

