

CIRCUIT BREAKER CURR. SENS DC 440V AC 400V 10KA, 2-POLE, C, 50A



Model	
product brandname	SENTRON
Product designation	Miniature circuit breaker
General technical data	
Number of poles	2
Number of poles / Note	2P
Tripping characteristic class	C
circuit-breaker / Design	5SY5
Mechanical service life (switching cycles) / typical	10 000
Overvoltage category	3
Voltage	
Type of voltage	AC/DC
Insulation voltage	
• at DC / rated value	250 V
• with multi-phase operation / at AC / rated value	440 V
Supply voltage	
Supply voltage / at AC / rated value	400 V
Supply voltage frequency	

• rated value	50/60 Hz
<b>Protection class</b>	
<b>Protection class IP</b>	IP20, with connected conductors
<b>Energy limiting class</b>	3
<b>Switching capacity</b>	
<b>Switching capacity current</b>	
• at DC / acc. to IEC 60947-2 / rated value	15 kA
• acc. to EN 60898 / rated value	10 kA
<b>Dissipation</b>	
<b>Power loss [W]</b>	
• for rated value of the current / at AC / in hot operating state / per pole	3.8 W
• maximum	7.6 W
<b>Electricity</b>	
Current / at AC / rated value	50 A
<b>Product details</b>	
Product feature / Touch protection	Yes
<b>Product component</b>	
• combined terminal top	Yes
• combined terminal bottom	Yes
<b>Product feature</b>	
• Properties for main switches in accordance with EN 60204-1	Yes
• halogen-free	Yes
• sealable	Yes
• silicon-free	Yes
Product extension / can be installed / supplementary devices	Yes
<b>Product function</b>	
Product function / neutral conductor switching	No
<b>Short circuit</b>	
<b>Breaking capacity short-circuit current (I<sub>cn</sub>)</b>	
• at DC / acc. to EN 60898-2	10 kA
<b>Number</b>	
<b>Number of test cycles / for environmental testing / acc. to IEC 60068-2-30</b>	6
<b>Connections</b>	
<b>Connectable conductor cross-section / stranded</b>	
• minimum	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>AWG number / as coded connectable conductor cross section</b>	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	14 4
<b>Tightening torque [lbf·in] / with screw-type terminals</b>	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	22 lbf·in 26 lbf·in
<b>Tightening torque / with screw-type terminals</b>	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	2.5 N·m 3 N·m
Position / of power supply cord	AC as required, observe DC polarity

### Mechanical Design

<b>Height</b>	90 mm
<b>Width</b>	36 mm
<b>Depth</b>	76 mm
<b>Mounting position</b>	any
<b>Installation depth</b>	70 mm
<b>Number of width units</b>	2
<b>Mounting type</b>	Quick assembly system
<b>Net weight</b>	337 g

### Environmental conditions

<b>Influence of the surrounding temperature</b>	Max. 95% humidity
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> <li>• maximum</li> <li>• during storage / minimum</li> <li>• during storage / maximum</li> </ul>	-25 °C 55 °C -40 °C 75 °C

### Certificates

Equipment marking / acc. to DIN EN 61346-2	F
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General Product Approval	Declaration of Conformity	Test Certificates
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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=5SY5250-7>

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

<http://support.automation.siemens.com/WW/view/en/5SY5250-7/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY5250-7](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY5250-7)

**CAX-Online-Generator**

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

**Tender specifications**

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



