

CIRCUIT BREAKER 230V 10KA, 1+N-POLE, A, 16A, D=70MM



Model	
product brandname	SENTRON
Product designation	5SY miniature circuit breaker
Design of the product	5SY miniature circuit breakers
General technical data	
Number of poles	2
Number of poles / Note	1P+N
Tripping characteristic class	A
circuit-breaker / Design	5SY4
Mechanical service life (switching cycles) / typical	20 000
Overvoltage category	3
Voltage	
Type of voltage	AC/DC
Insulation voltage	250 V
<ul style="list-style-type: none"> <li>with single-phase operation / at AC / rated value</li> </ul>	
Supply voltage	
Supply voltage / at AC / rated value	230 V

Protection class	
<b>Protection class IP</b>	IP20, with connected conductors
<b>Energy limiting class</b>	3
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>	15 kA
<ul style="list-style-type: none"> <li>• acc. to EN 60898 / rated value</li> </ul>	10 kA
<ul style="list-style-type: none"> <li>• acc. to IEC 60947-2 / rated value</li> </ul>	20 kA
Dissipation	
<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>	2.5 W
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	5 W
Electricity	
rated current $I_n$ / IEC, DIN/VDE / at 40 Cel	15.2 A
Current / at AC / rated value	16 A
Product details	
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>	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
Product function	
Product function / neutral conductor switching	Yes
Short circuit	
<b>Breaking capacity short-circuit current (I<sub>cn</sub>)</b>	
<ul style="list-style-type: none"> <li>• at AC / acc. to UL 1077 and CSA C22.2 No.235</li> </ul>	5 kA
<ul style="list-style-type: none"> <li>• at DC / acc. to EN 60898-2</li> </ul>	10 kA
Number	
<b>Number of test cycles / for environmental testing / acc. to IEC 60068-2-30</b>	6
Connections	
<b>Connectable conductor cross-section / stranded</b>	

<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>
<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>	<p>0.75 mm<sup>2</sup></p> <p>35 mm<sup>2</sup></p> <p>0.75 mm<sup>2</sup></p> <p>25 mm<sup>2</sup></p>
<b>AWG number / as coded connectable conductor cross section</b>	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>14</p> <p>4</p>
<b>Tightening torque [lbf·in] / with screw-type terminals</b>	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>22 lbf·in</p> <p>26 lbf·in</p>
<b>Tightening torque / with screw-type terminals</b>	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>2.5 N·m</p> <p>3 N·m</p>
Position / of power supply cord	Any

### 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>	319 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> <li>• maximum</li> <li>• during storage / minimum</li> <li>• during storage / maximum</li> </ul>	<p>-25 °C</p> <p>55 °C</p> <p>-40 °C</p> <p>75 °C</p>

### 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=5SY4516-5>

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

<http://support.automation.siemens.com/WW/view/en/5SY4516-5/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY4516-5](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4516-5)

**CAX-Online-Generator**

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

**Tender specifications**

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



