

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



Model	
Product brand name	SENTRON
Product designation	Miniature circuit breaker
General technical data	
Number of poles	2
Number of poles / Note	1P+N
Tripping characteristic class	C
characteristic / Let-through current characteristic	DS_5SY_C_1
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

<b>Supply voltage frequency</b>	
• 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
• acc. to IEC 60947-2 / rated value	35 kA
<b>Dissipation</b>	
<b>Power loss [W]</b>	
• for rated value of the current / at AC / in hot operating state / per pole	1.2 W
• maximum	2.4 W
<b>Electricity</b>	
rated current I <sub>n</sub> / IEC, DIN/VDE / at 40 Cel	0.95 A
Current / at AC / rated value	1 A
<b>Current limitation characteristic, no. / Let-through energy</b>	DE_5SY_C_1
<b>Suitability for operation</b>	Mechanical engineering / industry
<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	Yes
<b>Short circuit</b>	
<b>Breaking capacity short-circuit current (I<sub>cn</sub>)</b>	
• at AC / acc. to UL 1077 and CSA C22.2 No.235	5 kA
<b>Number</b>	

Number of test cycles / for environmental testing / acc. to IEC 60068-2-30	6
<b>Connections</b>	
<b>Connectable conductor cross-section / stranded</b>	
• minimum	0.75 mm <sup>2</sup>
• maximum	35 mm <sup>2</sup>
<b>Connectable conductor cross-section</b>	
• solid	
— minimum	0.75 mm <sup>2</sup>
— maximum	35 mm <sup>2</sup>
• finely stranded / with core end processing	
— minimum	0.75 mm <sup>2</sup>
— maximum	25 mm <sup>2</sup>
<b>AWG number / as coded connectable conductor cross section</b>	
• minimum	14
• maximum	4
<b>Tightening torque [lbf·in] / with screw-type terminals</b>	
• minimum	22 lbf·in
• maximum	26 lbf·in
<b>Tightening torque / with screw-type terminals</b>	
• minimum	2.5 N·m
• maximum	3 N·m
Position / of power supply cord	Any
<b>Mechanical Design</b>	
Height	90 mm
Width	36 mm
Depth	76 mm
Mounting position	any
Installation depth	70 mm
Number of width units	2
Mounting type	Quick assembly system
Net weight	327 g
<b>Environmental conditions</b>	
Degree of pollution	3
Influence of the surrounding temperature	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>	
• minimum	-25 °C
• maximum	55 °C
• during storage / minimum	-40 °C

• during storage / maximum

75 °C

## Certificates

Equipment marking / acc. to DIN EN 61346-2

F

### General Product Approval



CCC



IMQ



UL



VDE



RCM

[Miscellaneous](#)

Declaration of  
Conformity

Test Certificates

Shipping Approval



EG-Konf.

[Miscellaneous](#)

[Special Test  
Certificate](#)



ABS



BUREAU  
VERITAS



LRS

### Shipping Approval



RINA

## 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=5SY4501-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY4501-7>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY4501-7](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4501-7)

**CAX-Online-Generator**

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

**Tender specifications**

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



