



CIRCUIT BREAKER 400V 25KA, 2-POLE, 10A,  
D=70MM ONLY MAGNETIC TRIPPING

Model		
product brand name		SENTRON
Product designation		5SY miniature circuit breaker
<b>Design of the product</b>		5SY miniature circuit breakers

General technical data		
<b>Number of poles</b>		2
<b>Number of poles / Note</b>		2P
<b>Tripping characteristic class</b>		D
<b>circuit-breaker / Design</b>		5SY8
<b>Mechanical service life (switching cycles) / typical</b>		20 000
<b>Overvoltage category</b>		3

Voltage		
<b>Insulation voltage</b>		
<ul style="list-style-type: none"> <li>with single-phase operation / with AC / Rated value</li> </ul>	V	250
<ul style="list-style-type: none"> <li>with multi-phase operation / with AC / Rated value</li> </ul>	V	440

Supply voltage		
Supply voltage frequency / Rated value	Hz	50

Protection class		
<b>Protection class IP</b>		IP20, with connected conductors
<b>Energy limiting class</b>		3

### Switching capacity

<b>Switching capacity current</b>		
• acc. to EN 60898 / Rated value	kA	25
• acc. to IEC 60947-2 / Rated value	kA	40

### Dissipation

<b>Active power loss</b>		
• for rated value of the current / with AC / in hot operating state / per pole	W	0.9

### Electricity

rated current I <sub>n</sub> / IEC, DIN/VDE / at 40 Cel	A	9.6
Current / with AC / Rated value	A	10

### Product details

Product feature / Touch protection		Yes
<b>Product component</b>		
• combined terminal top		Yes
• combined terminal bottom		Yes
<b>Product property</b>		
• Properties for main switches in accordance with EN 60204-1		Yes
• halogen-free		Yes
• sealable		Yes
• silicon-free		Yes
Product expansion / can be installed / supplementary devices		Yes

### Product function

Product function / neutral conductor switching		Yes
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### Short circuit

<b>Breaking capacity short-circuit current (I<sub>cn</sub>)</b>		
• with AC / acc. to UL 1077 and CSA C22.2 No.235	kA	5

### Number

Number of test cycles / for environmental testing / acc. to IEC 60068-2-30		6
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### Connections

<b>Connectable conductor cross-section / stranded</b>		
• minimum	mm <sup>2</sup>	0.75
• maximum	mm <sup>2</sup>	35
<b>Connectable conductor cross-section</b>		
• solid		
— minimum	mm <sup>2</sup>	0.75
— maximum	mm <sup>2</sup>	35

<ul style="list-style-type: none"> <li>finely stranded / with core end processing <ul style="list-style-type: none"> <li>— minimum</li> <li>— maximum</li> </ul> </li> </ul>	mm <sup>2</sup>	0.75
	mm <sup>2</sup>	25
<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>	lbf·in	22
	lbf·in	26
<b>Tightening torque / with screw-type terminals</b>		
<ul style="list-style-type: none"> <li>minimum</li> <li>maximum</li> </ul>	N·m	2.5
	N·m	3
Position / of power supply cord		Any

### Mechanical Design

Height	mm	90
Width	mm	36
Depth	mm	76
mounting position		any
Installation depth	mm	70
Number of width units		2
Mounting type		Quick assembly system

### Environmental conditions

Influence of the surrounding temperature		Periodically +55°C, 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>	°C	-25
	°C	45
	°C	-40
	°C	75

### Certificates

Equipment marking / acc. to DIN EN 61346-2		F
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<b>General Product Approval</b>	<b>other</b>
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[other](#)

[other](#)

### Further information

**Information- and Downloadcenter (Catalogs, Brochures,...)**

<http://www.siemens.com/lowvoltage/catalogs>

**Industry Mall (Online ordering system)**

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/5SY82108BB08>

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

<http://support.automation.siemens.com/WW/view/en/5SY82108BB08/all>

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

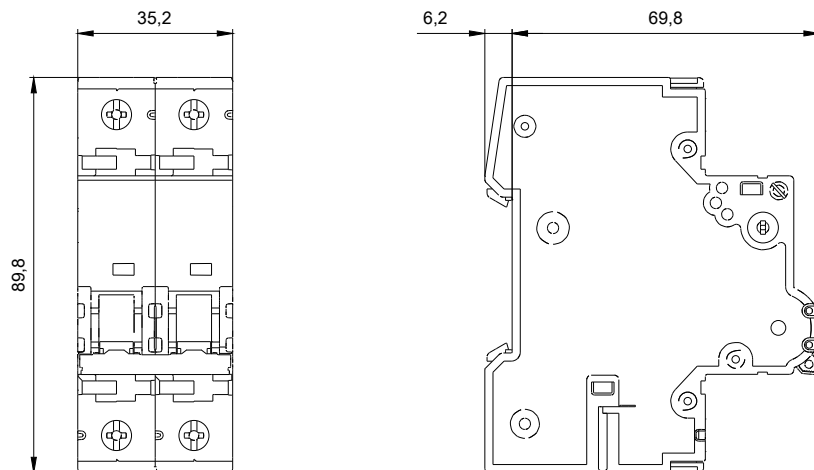
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=5SY82108BB08](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=5SY82108BB08)

**CAX-Online-Generator**

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

**Tender specifications**

<http://ausschreibungstexte.siemens.com/tiplv>



**last modified:**

11.03.2015