

CIRCUIT BREAKER 400V 10KA, 2-POLE, C, 4A, D=70MM



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

General technical data		
Number of poles		2
Number of poles / Note		2P
Tripping characteristic class		C
circuit-breaker / Design		5SY4
Mechanical service life (switching cycles) / typical		20 000
Overvoltage category		3

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

Supply voltage		
<b>Supply voltage frequency</b>		
<ul style="list-style-type: none"> <li>Rated value</li> </ul>	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>		
• for DC / acc. to IEC 60947-2 / Rated value	kA	15
• acc. to EN 60898 / Rated value	kA	10
• acc. to IEC 60947-2 / Rated value	kA	35

Dissipation		
<b>Active power loss</b>		
• for rated value of the current / with AC / in hot operating state / per pole	W	1.3

Electricity		
<b>rated current I<sub>n</sub> / IEC, DIN/VDE</b>		
• at 40 Cel	A	3.76
<b>Current / with AC</b>		
• Rated value	A	4
<b>Net weight</b>	g	312

## Appearance

Product details		
<b>Product feature</b>		
• 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
<b>Product expansion / can be installed</b>		
• supplementary devices		Yes

Product function		
<b>Product function</b>		
• neutral conductor switching		No

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
• for DC / acc. to EN 60898-2	kA	10

## 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
• finely stranded / with core end processing		
— minimum	mm <sup>2</sup>	0.75
— maximum	mm <sup>2</sup>	25
<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	lbf·in	22
• maximum	lbf·in	26
<b>Tightening torque / with screw-type terminals</b>		
• minimum	N·m	2.5
• maximum	N·m	3
<b>Position</b>		
• 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

<b>Influence of the surrounding temperature</b>		Max. 95% humidity
<b>Shock resistance</b>		
• acc. to IEC 60068-2-27		150m/s <sup>2</sup> at 11ms half-sine
<b>Vibration resistance</b>		
• 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	°C	-25
• maximum	°C	55

- during storage / minimum
- during storage / maximum

°C	-40
°C	75

## Certificates

### Reference code

- acc. to DIN EN 61346-2

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### General Product Approval



CCC



IMQ



GOST



UL



VDE



### Declaration of Conformity



EG-Konf.

### Test Certificates

[Special Test Certificate](#)

[other](#)

### Shipping Approval



BUREAU VERITAS



DNV



GL

### Shipping Approval



LRS



RINA

[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/5SY42047>

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

<http://support.automation.siemens.com/WW/view/en/5SY42047/all>

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

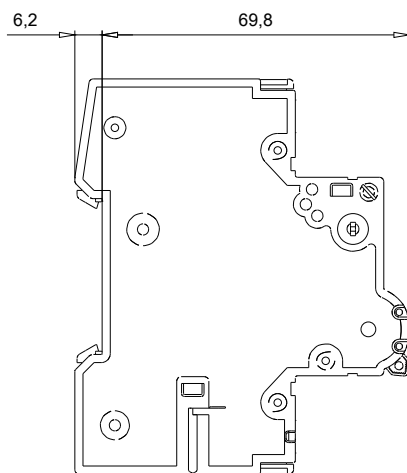
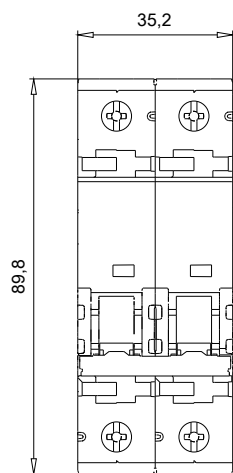
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=5SY42047](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=5SY42047)

### CAX-Online-Generator

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

### Tender specifications

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



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