

CIRCUIT BREAKER 230/400V 15KA, 1-POLE, C, 50A, D=70MM



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

General technical data		
Number of poles		1
Number of poles / Note		1P
Tripping characteristic class		C
circuit-breaker / Design		5SY7
Mechanical service life (switching cycles) / typical		20 000
Overtoltage category		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		
Protection class IP		IP20, with connected conductors
Energy limiting class		3

### Switching capacity

Switching capacity current		
• for DC / acc. to IEC 60947-2 / Rated value	kA	15
• acc. to EN 60898 / Rated value	kA	15
• acc. to IEC 60947-2 / Rated value	kA	20
Dissipation		
<b>Active power loss</b>		
• for rated value of the current / with AC / in hot operating state / per pole	W	3.8
Electricity		
rated current I <sub>n</sub> / IEC, DIN/VDE / at 40 Cel	A	48
Current / with AC / Rated value	A	50
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		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	15
Number		
Number of test cycles / for environmental testing / acc. to IEC 60068-2-30		6
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
Position / of power supply cord		Any

### Mechanical Design

<b>Height</b>	mm	90
<b>Width</b>	mm	18
<b>Depth</b>	mm	76
<b>mounting position</b>		any
<b>Installation depth</b>	mm	70
<b>Number of width units</b>		1
<b>Mounting type</b>		Quick assembly system

### 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>		
• minimum	°C	-25
• maximum	°C	55
• during storage / minimum	°C	-40
• during storage / maximum	°C	75

### Certificates

Equipment marking / acc. to DIN EN 61346-2		F
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## General Product Approval



CCC



IMQ



GOST



UL



VDE



## Declaration of Conformity

## Shipping Approval



EG-Konf.



BUREAU  
VERITAS



DNV



GL



LRS



RINA

## 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/5SY71507>

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

<http://support.automation.siemens.com/WW/view/en/5SY71507/all>

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

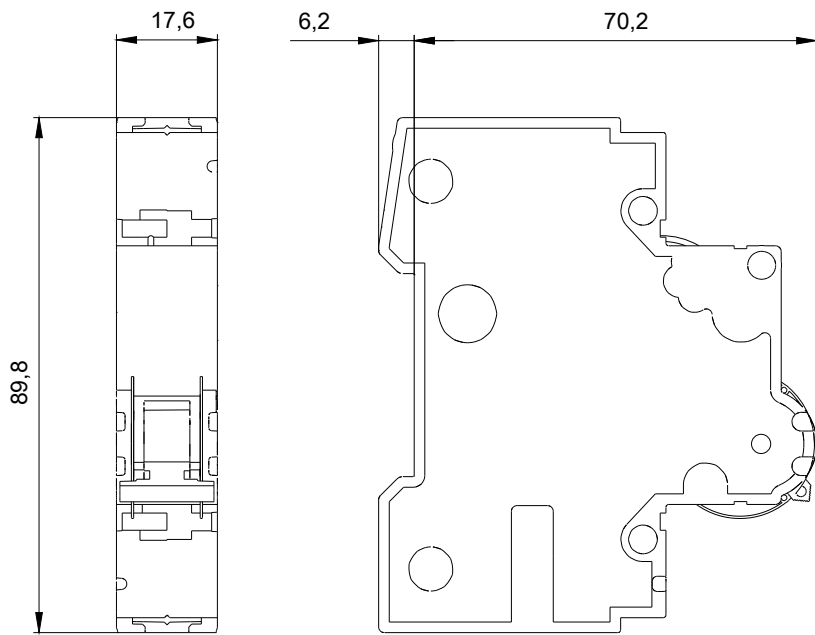
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY71507](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY71507)

### CAX-Online-Generator

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

### Tender specifications

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



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