

CIRCUIT BREAKER 230/400V 10KA, 1-POLE, D, 1A, D=70MM



Figure similar

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		D
circuit-breaker / Design		5SY4
Mechanical service life (switching cycles) / typical		20 000
Overvoltage category		3

Voltage		
Type of voltage		AC/DC
Insulation voltage		
<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 / with AC / Rated value	V	400
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	10
• acc. to IEC 60947-2 / Rated value	kA	35

## Dissipation

### Active power loss

• for rated value of the current / with AC / in hot operating state / per pole	W	1.1
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## Electricity

rated current $I_n$ / IEC, DIN/VDE / at 40 Cel	A	0.95
Current / with AC / Rated value	A	1

## Product details

Product feature / Touch protection		Yes
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### Product component

• combined terminal top	Yes
• combined terminal bottom	Yes

### Product property

• 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
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## Product function

Product function / neutral conductor switching	No
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## Short circuit

### Breaking capacity short-circuit current ( $I_{cn}$ )

• 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

### Connectable conductor cross-section / stranded

• minimum	mm <sup>2</sup>	0.75
• maximum	mm <sup>2</sup>	35

### Connectable conductor cross-section

<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>	mm <sup>2</sup>	0.75
	mm <sup>2</sup>	35
	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

<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
<b>Net weight</b>	g	171

#### 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>	°C	-25
	°C	55
	°C	-40
	°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

Test Certificates

Shipping Approval



EG-Konf.

[Special Test  
Certificate](#)

[other](#)



LRS

Shipping  
Approval

other



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/5SY41018>

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

<http://support.automation.siemens.com/WW/view/en/5SY41018/all>

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

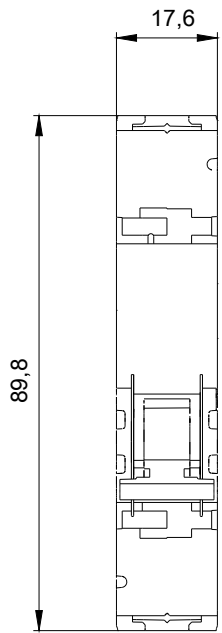
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=5SY41018](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=5SY41018)

**CAX-Online-Generator**

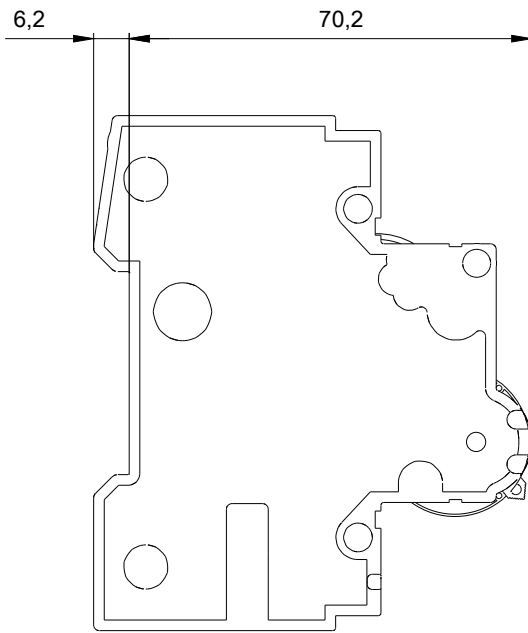
<http://www.siemens.com/cax>

**Tender specifications**

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



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