

CIRCUIT BREAKER 230/400V 10KA, 1-POLE, C, 16A, 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		1
Number of poles / Note		1P
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 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		
<b>Supply voltage frequency</b>		

- 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>		
• 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	20

### Dissipation

<b>Active power loss</b>		
• for rated value of the current / with AC / in hot operating state / per pole	W	1.6

### Electricity

<b>rated current I<sub>n</sub> / IEC, DIN/VDE</b>		
• at 40 Cel	A	15.04
<b>Current / with AC</b>		
• Rated value	A	16
<b>Net weight</b>	g	165

### Appearance

#### Product details

<b>Product feature</b>		Yes
• 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
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## 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

- |  |                 |      |
|--|-----------------|------|
| • 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   |

### AWG number / as coded connectable conductor cross section

- |           |    |
|-----------|----|
| • minimum | 14 |
| • maximum | 4  |

### Tightening torque (lbf·in) / with screw-type terminals

- |           |        |    |
|-----------|--------|----|
| • minimum | lbf·in | 22 |
| • maximum | lbf·in | 26 |

### Tightening torque / with screw-type terminals

- |           |     |     |
|-----------|-----|-----|
| • minimum | N·m | 2.5 |
| • maximum | N·m | 3   |

### Position

- |                        |     |
|------------------------|-----|
| • of power supply cord | Any |
|------------------------|-----|

## Mechanical Design

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

## Environmental conditions

Influence of the surrounding temperature		Max. 95% humidity
Shock resistance		150m/s <sup>2</sup> at 11ms half-sine
Vibration resistance		50m/s <sup>2</sup> at 25 to 150Hz and 60m/s <sup>2</sup> at 35Hz (4sec)
Ambient temperature		
• minimum	°C	-25

- maximum
- during storage / minimum
- during storage / maximum

°C	55
°C	-40
°C	75

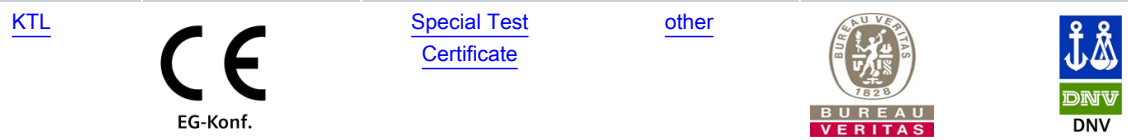
### Certificates

<b>Reference code</b>	
• acc. to DIN EN 61346-2	F

### General Product Approval



<b>General Product Approval</b>	<b>Declaration of Conformity</b>	<b>Test Certificates</b>	<b>Shipping Approval</b>
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### Shipping Approval



### 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/5SY41167>
- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**  
<http://support.automation.siemens.com/WW/view/en/5SY41167/all>
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**  
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=5SY41167](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=5SY41167)
- CAX-Online-Generator**  
<http://www.siemens.com/cax>
- Tender specifications**  
<http://ausschreibungstexte.siemens.com/tiplv>

