

Miniature circuit breaker 400 V 10kA, 3+N-pole, C, 16A, D=70 mm



### Model

Product brand name	SENTRON
Product designation	Miniature circuit breaker

### General technical data

Number of poles	4
Number of poles / Note	3P+N
Tripping characteristic class	C
circuit-breaker / Design	5SY4
Mechanical service life (switching cycles) / typical	10 000
Oversvoltage category	III

### Voltage

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

### Supply voltage

Type of voltage	AC
Current / at AC / rated value	16 A

Supply voltage	
<ul style="list-style-type: none"> <li>at AC / rated value</li> </ul>	400 V
Supply voltage frequency / rated value	50/60 Hz

### Protection class

Protection class IP	IP20, with connected conductors
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### Switching capacity

Switching capacity current	
<ul style="list-style-type: none"> <li>at DC / acc. to IEC 60947-2 / rated value</li> </ul>	15 kA
<ul style="list-style-type: none"> <li>acc. to EN 60898 / rated value</li> </ul>	10 kA
<ul style="list-style-type: none"> <li>acc. to IEC 60947-2 / rated value</li> </ul>	20 kA
Energy limiting class	3

### Dissipation

Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1.6 W
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### Electricity

Tripping residual / rated value / derated current / at 40 Cel	15.23 A
Suitability for operation	Mechanical engineering / industry

### Product details

Product function / neutral conductor switching	Yes
Product feature / Touch protection	Yes
Product component	
<ul style="list-style-type: none"> <li>combined terminal top</li> </ul>	Yes
<ul style="list-style-type: none"> <li>combined terminal bottom</li> </ul>	Yes
Product feature	
<ul style="list-style-type: none"> <li>Properties for main switches in accordance with EN 60204-1</li> </ul>	Yes
<ul style="list-style-type: none"> <li>halogen-free</li> </ul>	Yes
<ul style="list-style-type: none"> <li>sealable</li> </ul>	Yes
<ul style="list-style-type: none"> <li>silicon-free</li> </ul>	Yes
Product extension / can be installed / supplementary devices	Yes

### Short circuit

Breaking capacity short-circuit current (I <sub>cn</sub> )	
<ul style="list-style-type: none"> <li>at AC / acc. to UL 1077 and CSA C22.2 No.235</li> </ul>	5 kA

### Connections

<ul style="list-style-type: none"> <li>Connectable conductor cross-section</li> </ul>	
_____	0.75 ... 35 mm <sup>2</sup>
— stranded	
_____	0.75 ... 35 mm <sup>2</sup>

<ul style="list-style-type: none"> <li>• Connectable conductor cross-section / finely stranded / with core end processing</li> </ul>	0.75 ... 25 mm <sup>2</sup>
AWG number / as coded connectable conductor cross section	18 ... 4
Tightening torque [lbf·in] / with screw-type terminals	22 ... 31 lbf·in
Tightening torque / with screw-type terminals	2.5 ... 3 N·m
Position / of power supply cord	Any

### Mechanical Design

Height	90 mm
Width	72 mm
Depth	76 mm
Installation depth	70 mm
Number of width units	4
Mounting type	Quick assembly system
Mounting position	any
Net weight	579 g

### Environmental conditions

Ambient temperature	-40 ... +70 °C
	-40 ... +75 °C

### Certificates

Reference code	
<ul style="list-style-type: none"> <li>• acc. to DIN EN 61346-2</li> </ul>	F
<ul style="list-style-type: none"> <li>• acc. to DIN EN 81346-2</li> </ul>	F

## General Product Approval



CCC



IMQ



UR



VDE



RCM

[Miscellaneous](#)

Declaration of  
Conformity

Test Certific-  
ates

Shipping Approval



EG-Konf.

[Miscellaneous](#)



ABS



BUREAU  
VERITAS



LRS



RINA

## Railway

[Confirmation](#)

[Vibration and Shock](#)

## Further information

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

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

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SY4616-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY4616-7>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY4616-7](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4616-7)

**CAX-Online-Generator**

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

**Tender specifications**

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





