

Miniature circuit breaker 230/400 V 10kA, 1-pole, C, 8A, D=70 mm



Model	
Product brand name	SENTRON
Product designation	Miniature circuit breaker
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	10 000
Overvoltage 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	8 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
<b>Protection class</b>	
Protection class IP	IP20, with connected conductors
<b>Switching capacity</b>	
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
<b>Dissipation</b>	
Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	0.9 W
<b>Electricity</b>	
Tripping residual / rated value / derated current / at 40 Cel	7.51 A
Suitability for operation	Mechanical engineering / industry
<b>Product details</b>	
Product function / neutral conductor switching	No
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
<b>Short circuit</b>	
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
<b>Connections</b>	
<ul style="list-style-type: none"> <li>Connectable conductor cross-section</li> </ul>	
_____	0.75 ... 35
— stranded	
_____	0.75 ... 35

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

### Mechanical Design

Height	90 mm
Width	18 mm
Depth	76 mm
Installation depth	70 mm
Number of width units	1
Mounting type	Quick assembly system
Mounting position	any
Net weight	162 g

### Environmental conditions

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

### 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](#)

General Product Approval	Declaration of Conformity	Test Certificates	Shipping Approval
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[KC](#)



EG-Konf.

[Special Test Certificate](#)

[Miscellaneous](#)



ABS



BUREAU VERITAS

## Shipping Approval

## Railway



LRS



RINA

[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=5SY4108-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY4108-7>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY4108-7](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4108-7)

### CAX-Online-Generator

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

### Tender specifications

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



