

CIRCUIT BREAKER 400V 10KA, 4-POLE, D, 0.5A, D=70MM



Model	
Product brand name	SENTRON
Product designation	Miniature circuit breaker
General technical data	
Number of poles	4
Number of poles / Note	4P
Tripping characteristic class	D
characteristic / Let-through current characteristic	DS_5SY_D_0_5
circuit-breaker / Design	5SY4
Mechanical service life (switching cycles) / typical	20 000
Overvoltage category	3
Voltage	
Type of voltage	AC/DC
Insulation voltage	440 V
<ul style="list-style-type: none"> <li>with multi-phase operation / at AC / rated value</li> </ul>	440 V
Supply voltage	
Supply voltage / at AC / rated value	400 V
Supply voltage frequency	

• rated value	50/60 Hz
<b>Protection class</b>	
<b>Protection class IP</b>	IP20, with connected conductors
<b>Energy limiting class</b>	3
<b>Switching capacity</b>	
<b>Switching capacity current</b>	
• at DC / acc. to IEC 60947-2 / rated value	15 kA
• acc. to EN 60898 / rated value	10 kA
• acc. to IEC 60947-2 / rated value	35 kA
<b>Dissipation</b>	
<b>Power loss [W]</b>	
• for rated value of the current / at AC / in hot operating state / per pole	0.8 W
• maximum	2.4 W
<b>Electricity</b>	
rated current I <sub>n</sub> / IEC, DIN/VDE / at 40 Cel	0.475 A
Current / at AC / rated value	0.5 A
<b>Current limitation characteristic, no. / Let-through energy</b>	DE_5SY_D_0_5
<b>Suitability for operation</b>	Mechanical engineering / industry
<b>Product details</b>	
Product feature / Touch protection	Yes
<b>Product component</b>	
• combined terminal top	Yes
• combined terminal bottom	Yes
<b>Product feature</b>	
• Properties for main switches in accordance with EN 60204-1	Yes
• halogen-free	Yes
• sealable	Yes
• silicon-free	Yes
Product extension / can be installed / supplementary devices	Yes
<b>Product function</b>	
Product function / neutral conductor switching	No
<b>Short circuit</b>	
<b>Breaking capacity short-circuit current (I<sub>cn</sub>)</b>	
• at AC / acc. to UL 1077 and CSA C22.2 No.235	5 kA
<b>Number</b>	

Number of test cycles / for environmental testing / acc. to IEC 60068-2-30	6
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### Connections

<b>Connectable conductor cross-section / stranded</b>	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	0.75 mm <sup>2</sup> 35 mm <sup>2</sup>
<b>Connectable conductor cross-section</b>	
<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>	0.75 mm <sup>2</sup> 35 mm <sup>2</sup> 0.75 mm <sup>2</sup> 25 mm <sup>2</sup>
<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>	22 lbf·in 26 lbf·in
<b>Tightening torque / with screw-type terminals</b>	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	2.5 N·m 3 N·m
Position / of power supply cord	Any

### Mechanical Design

Height	90 mm
Width	72 mm
Depth	76 mm
Mounting position	any
Installation depth	70 mm
Number of width units	4
Mounting type	Quick assembly system
Net weight	633 g

### Environmental conditions

Degree of pollution	3
Influence of the surrounding temperature	Max. 95% humidity
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> </ul>	-25 °C 55 °C -40 °C

• during storage / maximum

75 °C

## Certificates

Equipment marking / acc. to DIN EN 61346-2

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### General Product Approval



CCC



IMQ



UL



VDE



RCM

[Miscellaneous](#)

### Declaration of Conformity



EG-Konf.

### Test Certificates

[Special Test Certificate](#)

[Miscellaneous](#)

### Shipping Approval



ABS



BUREAU  
VERITAS



LRS

### Shipping Approval



RINA

## 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=5SY4405-8>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY4405-8>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY4405-8](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4405-8)

**CAX-Online-Generator**

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

**Tender specifications**

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





