

CIRCUIT BREAKER 400V 25KA, 2POLE, D, 1.6A, D=70MM



Model	
Product brand name	SENTRON
Product designation	Miniature circuit breaker
General technical data	
Number of poles	2
Number of poles / Note	2P
Tripping characteristic class	D
characteristic / Let-through current characteristic	DS_5SY_D_1_6
circuit-breaker / Design	5SY8
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

### Protection class

<b>Protection class IP</b>	IP20, with connected conductors
<b>Energy limiting class</b>	3

### Switching capacity

<b>Switching capacity current</b>	
<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 IEC 60947-2 / rated value</li> </ul>	70 kA

### Dissipation

<b>Power loss [W]</b>	
<ul style="list-style-type: none"> <li>• for rated value of the current / at AC / in hot operating state / per pole</li> </ul>	1 W
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	2 W

### Electricity

rated current $I_n$ / IEC, DIN/VDE / at 40 Cel	1.504 A
Current / at AC / rated value	1.6 A
<b>Current limitation characteristic, no. / Let-through energy</b>	DE_5SY_D_1_6
<b>Suitability for operation</b>	Mechanical engineering / industry

### Product details

Product feature / Touch protection	Yes
<b>Product component</b>	
<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
<b>Product feature</b>	
<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

### Product function

Product function / neutral conductor switching	No
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### Short circuit

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

### Number

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

<b>Connectable conductor cross-section / stranded</b>	
• minimum	0.75 mm <sup>2</sup>
• maximum	35 mm <sup>2</sup>
<b>Connectable conductor cross-section</b>	
• solid	
— minimum	0.75 mm <sup>2</sup>
— maximum	35 mm <sup>2</sup>
• finely stranded / with core end processing	
— minimum	0.75 mm <sup>2</sup>
— maximum	25 mm <sup>2</sup>
<b>AWG number / as coded connectable conductor cross section</b>	
• minimum	14
• maximum	4
<b>Tightening torque [lbf·in] / with screw-type terminals</b>	
• minimum	22 lbf·in
• maximum	26 lbf·in
<b>Tightening torque / with screw-type terminals</b>	
• minimum	2.5 N·m
• maximum	3 N·m
Position / of power supply cord	Any

## Mechanical Design

<b>Height</b>	90 mm
<b>Width</b>	36 mm
<b>Depth</b>	76 mm
<b>Mounting position</b>	any
<b>Installation depth</b>	70 mm
<b>Number of width units</b>	2
<b>Mounting type</b>	Quick assembly system
<b>Net weight</b>	316 g

## Environmental conditions

<b>Degree of pollution</b>	3
<b>Influence of the surrounding temperature</b>	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>	
• minimum	-25 °C
• maximum	55 °C
• during storage / minimum	-40 °C
• during storage / maximum	75 °C

## Certificates

## General Product Approval

## Declaration of Conformity

[Miscellaneous](#)

## 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=5SY8215-8>**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**<https://support.industry.siemens.com/cs/ww/en/ps/5SY8215-8>**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY8215-8](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY8215-8)**CAX-Online-Generator**<http://www.siemens.com/cax>**Tender specifications**<http://www.siemens.com/specifications>



