

Miniature circuit breaker 400 V 15kA, 3-pole, C, 50 A, D=70 mm



Model	
Product brand name	SENTRON
Product designation	Miniature circuit breaker
General technical data	
Number of poles	3
Number of poles / Note	3P
Tripping characteristic class	C
circuit-breaker / Design	5SY7
Mechanical service life (switching cycles) / typical	20 000
Oversoltage category	III
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	400 V
<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
Energy limiting class	3
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>	15 kA
<ul style="list-style-type: none"> <li>acc. to IEC 60947-2 / rated value</li> </ul>	20 kA
Dissipation	
Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	3.8 W
Electricity	
Tripping residual / rated value / derated current / at 40 Cel	48 A
Current / at AC / rated value	50 A
Suitability for operation	Mechanical engineering / industry
Product details	
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
Product function	
Product function / neutral conductor switching	No
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
Number	
Number of test cycles / for environmental testing / acc. to IEC 60068-2-30	6
Connections	
Connectable conductor cross-section / stranded	
<ul style="list-style-type: none"> <li>minimum</li> </ul>	0.75 mm <sup>2</sup>

<ul style="list-style-type: none"> <li>• maximum</li> </ul>	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>
AWG number / as coded connectable conductor cross section	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	14 4
Tightening torque [lbf·in] / with screw-type terminals	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	22 lbf·in 26 lbf·in
Tightening torque / with screw-type terminals	
<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	54 mm
Depth	76 mm
Mounting position	any
Installation depth	70 mm
Number of width units	3
Mounting type	Quick assembly system
Net weight	487 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)
Ambient temperature	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> <li>• during storage / minimum</li> <li>• during storage / maximum</li> </ul>	-25 °C 55 °C -40 °C 75 °C

### Certificates

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

## General Product Approval



CCC



IMQ



UR



VDE



RCM

[Miscellaneous](#)

Declaration of  
Conformity

Shipping Approval

Railway



EG-Konf.



ABS



BUREAU  
VERITAS



LRS



RINA

[Confirmation](#)

## Railway

[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=5SY7350-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY7350-7>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY7350-7](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY7350-7)

**CAX-Online-Generator**

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

**Tender specifications**

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





