

Miniature circuit breaker 400 V 10kA, 3-pole, B, 32 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	B
circuit-breaker / Design	5SY4
Mechanical service life (switching cycles) / typical	10 000
Overvoltage category	III
Degree of pollution	3

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 / with single-phase operation / at AC / rated value	230 V

Supply voltage	
Type of voltage	AC
Operating current / at AC / rated value	32 A
Supply voltage	
• at AC / rated value	400 V
Operating voltage	
• at DC / rated value / maximum	72 V
Supply voltage frequency	
• rated value	50/60 Hz

Protection class	
Protection class IP	IP20, with connected conductors

Switching capacity	
Switching capacity current	
• 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	20 kA
Energy limiting class	3

Dissipation	
Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	2.6 W

Current	
Tripping residual / rated value / derated current / at 40 Cel	30.72 A
Suitability for operation	Mechanical engineering / industry

Product details	
Product function / neutral conductor switching	No
Product feature / Touch protection	Yes
Product component	
• combined terminal top	Yes
• combined terminal bottom	Yes
Product feature	
• 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

Short circuit	
Breaking capacity short-circuit current (I <sub>cn</sub> )	
• at AC / acc. to UL 1077 and CSA C22.2 No.235	5 kA

Connections	
Connectable conductor cross-section / solid	
• minimum	0.75 mm <sup>2</sup>
• maximum	35 mm <sup>2</sup>
Connectable conductor cross-section / stranded	
• minimum	0.75 mm <sup>2</sup>
• maximum	35 mm <sup>2</sup>
Connectable conductor cross-section / finely stranded / with core end processing	
• minimum	0.75 mm <sup>2</sup>
• maximum	25 mm <sup>2</sup>
AWG number / as coded connectable conductor cross section	
• minimum	18
• maximum	4
Tightening torque [lbf·in] / with screw-type terminals	
• minimum	22 lbf·in
• maximum	31 lbf·in
Tightening torque / with screw-type terminals	
• minimum	2.5 N·m
• maximum	3.5 N·m
Position / of power supply cord	Any

Mechanical Design	
Height	90 mm
Width	54 mm
Depth	76 mm
Installation depth	70 mm
Number of width units	3
Mounting type	Quick assembly system
Mounting position	any
Net weight	464 g

Environmental conditions	
Influence of the surrounding temperature	max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C
Ambient temperature	
• minimum	-40 °C
• maximum	70 °C
Ambient temperature / during storage	
• minimum	-40 °C
• maximum	75 °C
Number of test cycles / for environmental testing / acc. to IEC 60068-2-30	6

## Certificates

### Reference code

- acc. to DIN EN 61346-2
- acc. to DIN EN 81346-2

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### General Product Approval



CCC



IMQ



UR



VDE



RCM

[Miscellaneous](#)

### Declaration of Conformity



EG-Konf.

### Test Certificates

[Miscellaneous](#)

[Special Test Certificate](#)

### Shipping Approval



ABS



BUREAU  
VERITAS



LRS

### Shipping Approval

### Railway



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=5SY4332-6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY4332-6>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY4332-6](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4332-6)

### CAX-Online-Generator

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

### Tender specifications

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





