

Residual current operated circuit breaker, 4-pole, Type AC, In: 80 A, 100 mA, Un AC: 400 V



Model	
Product brand name	SENTRON
Product designation	RCCB
Design of the product	Instantaneous
General technical data	
Number of poles	4
Size of installation devices / acc. to DIN 43880	1
Protection against electrical shock	Finger and back-of-hand safe
Short-circuit current rating	10 kA
circuit-breaker / Design	5SV4
Mechanical service life (switching cycles) / typical	10 000
Switching function / short-term delayed	No
Overvoltage category	III
Supply voltage	
Current / at AC / rated value	80 A
<ul style="list-style-type: none"> <li>• Supply voltage / at AC / rated value</li> <li>• Supply voltage / for testing equipment / minimum</li> </ul>	230/400 V 100 V

- rated value

50 Hz

### Protection class

Protection class IP	IP20, if the distribution board is installed, with connected conductors
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### Switching capacity

Switching capacity current / according to IEC 61008-1 / rated value	0.8 kA
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### Dissipation

Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	4.1 W
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### Current

Tripping residual current / rated value	100 mA
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Tripping residual / rated value / derated current

• at 40 Cel	80 A
• at 45 Cel	77.57 A
• at 50 Cel	74.59 A
• at 55 Cel	70.22 A
• at 60 Cel	64.47 A
• at 65 Cel	57.35 A
• at 70 Cel	48.84 A

Type of fault current	AC
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I <sub>2t</sub> -value / permissible	110 000 A <sup>2</sup> ·s
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### Product details

Product feature / silicon-free	Yes
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Product extension / can be installed / supplementary devices	Yes
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### Connections

Connectable conductor cross-section	
• solid	0.75 ... 35 mm <sup>2</sup>
• stranded	0.75 ... 35 mm <sup>2</sup>

Tightening torque / with screw-type terminals	2.5 ... 3 N·m
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Position / of power supply cord	top or bottom
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### Mechanical Design

Height	90 mm
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Width	72 mm
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Depth	70 mm
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Installation depth	70 mm
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Number of width units	4
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Mounting type	DIN rail (REG)
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Mounting position	any
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Net weight	350 g
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### Environmental conditions

Ambient temperature	-25 ... +45 °C
• during storage	-40 ... +75 °C

### Certificates

Reference code	F
• acc. to DIN EN 61346-2	F
• acc. to DIN EN 81346-2	F

General Product Approval	Declaration of Conformity	other	Railway
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CCC



IMQ

[Miscellaneous](#)



EG-Konf.

[Miscellaneous](#)

[Vibration and Shock](#)

### Railway

[Confirmation](#)

### 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=5SV4447-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SV4447-0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SV4447-0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV4447-0)

**CAX-Online-Generator**

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

**Tender specifications**

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





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