

Residual current operated circuit breaker, 4-pole, type B+, selective,  
In: 63 A, 300 mA, Un AC: 400 V



Model	
Product brand name	SENTRON
Product designation	RCCB
Design of the product	Selective
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	5SM3
Mechanical service life (switching cycles) / typical	10 000
Switching function / short-term delayed	No
Overvoltage category	III
Supply voltage	
Current / at AC / rated value	63 A
<ul style="list-style-type: none"> <li>• Supply voltage / at AC / rated value</li> <li>• Supply voltage / for testing equipment / minimum</li> </ul>	400 V 195 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	2.6 W
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### Current

Tripping residual current / rated value	300 mA
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Tripping residual / rated value / derated current

• at 40 Cel	63 A
• at 45 Cel	63 A
• at 50 Cel	60.5 A
• at 55 Cel	58 A
• at 60 Cel	55.4 A
• at 65 Cel	52.9 A
• at 70 Cel	50.4 A

Type of fault current	B+
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I <sub>2t</sub> -value / permissible	70 000 A <sup>2</sup> ·s
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Surge current resistance / rated value	5 kA
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Operating frequency	50/60Hz
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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	1.5 ... 25 mm <sup>2</sup>
• stranded	1.5 ... 25 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 (bottom for SIGRES function also in switched-off state)
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### Mechanical Design

Height	90 mm
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Width	72 mm
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Depth	77 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)
Mounting position	any
Net weight	564 g

#### Environmental conditions

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

#### Certificates

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

#### General Product Approval

#### other



[Miscellaneous](#)

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#### 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?mfb=5SM3646-5KK14>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SM3646-5KK14>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=5SM3646-5KK14](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=5SM3646-5KK14)

##### CAX-Online-Generator

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

##### Tender specifications

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

