

Residual current operated circuit breaker, 4-pole, type A, selective,  
In: 125 A, 500 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	125 A
<ul style="list-style-type: none"> <li>• Supply voltage / at AC / rated value</li> <li>• Supply voltage / for testing equipment / minimum</li> </ul>	<p>400 V</p> <p>100 V</p>

- 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	1.25 kA
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### Dissipation

Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	8.9 W
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### Current

Tripping residual current / rated value	500 mA
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Tripping residual / rated value / derated current

• at 40 Cel	125 A
• at 45 Cel	125 A
• at 50 Cel	120 A
• at 55 Cel	115 A
• at 60 Cel	110 A
• at 65 Cel	105 A
• at 70 Cel	100 A

Type of fault current	A
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I <sup>2</sup> t-value / permissible	94 000 A <sup>2</sup> ·s
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Surge current resistance / rated value	5 kA
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Operating frequency	50Hz
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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	2.5 ... 50 mm <sup>2</sup>
• stranded	2.5 ... 50 mm <sup>2</sup>

Tightening torque / with screw-type terminals	3 ... 3.5 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	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	517 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

<b>General Product Approval</b>	<b>Declaration of Conformity</b>	<b>Test Certificates</b>
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[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?mlfb=5SM3745-8>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SM3745-8>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SM3745-8](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SM3745-8)

**CAX-Online-Generator**

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

**Tender specifications**

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

