

Residual current operated circuit breaker, 2-pole, type B+, short-time delayed, In: 40 A, 30 mA, Un AC: 230 V



Model	
Product brand name	SENTRON
Product designation	RCCB
Design of the product	Short-time delayed
General technical data	
Number of poles	2
Size of installation devices / acc. to DIN 43880	1
Protection against electrical shock	Finger and back-of-hand safe
circuit-breaker / Design	5SM3
Mechanical service life (switching cycles) / typical	10 000
Switching function / short-term delayed	Yes
Overvoltage category	III
Supply voltage	
Operating current / at AC / rated value	40 A
Supply voltage	
• at AC / rated value	230 V
• for testing equipment / minimum	195 V
Supply voltage frequency	

- rated value

50 Hz

### Protection class

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

### Switching capacity

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

### Dissipation

Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.2 W

### Current

Tripping residual current / rated value 30 mA

Tripping residual / rated value / derated current

- at 40 Cel 40 A
- at 45 Cel 40 A
- at 50 Cel 37.6 A
- at 55 Cel 35.2 A
- at 60 Cel 32.8 A
- at 65 Cel 30.4 A
- at 70 Cel 28 A

Type of fault current B+

I<sup>2</sup>t-value / permissible 70 000 A<sup>2</sup>·s

Surge current resistance / rated value 3 kA

### Product details

Product feature / silicon-free Yes

Product extension / can be installed / supplementary devices Yes

### Connections

Connectable conductor cross-section / solid

- minimum 1.5 mm<sup>2</sup>
- maximum 25 mm<sup>2</sup>

Connectable conductor cross-section / stranded

- minimum 1.5 mm<sup>2</sup>
- maximum 25 mm<sup>2</sup>

Tightening torque / with screw-type terminals

- minimum 2.5 N·m
- maximum 3 N·m

Position / of power supply cord Top or bottom (bottom for SIGRES function also in switched-off state)

### Mechanical Design

Height	90 mm
Width	72 mm
Depth	70 mm
Installation depth	70 mm
Number of width units	4
Mounting type	DIN rail (REG)
Mounting position	any
Net weight	560 g

### Environmental conditions

Ambient temperature	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>-25 °C</p> <p>45 °C</p>
Ambient temperature / during storage	
<ul style="list-style-type: none"> <li>• minimum permissible</li> <li>• maximum permissible</li> </ul>	<p>-40 °C</p> <p>75 °C</p>

### Certificates

Reference code	
<ul style="list-style-type: none"> <li>• acc. to DIN EN 61346-2</li> <li>• acc. to DIN EN 81346-2</li> </ul>	<p>F</p> <p>F</p>

<b>General Product Approval</b>	<b>Declaration of Con- formity</b>	<b>other</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=5SM3324-4KK14>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SM3324-4KK14>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SM3324-4KK14](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SM3324-4KK14)

**CAX-Online-Generator**

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

**Tender specifications**

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