

Residual current operated circuit breaker, 4-pole, type B+, short-time delayed, In: 40 A, 30 mA, Un AC: 400 V



Model	
Product brand name	SENTRON
Product designation	RCCB
Design of the product	Short-time delayed
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
circuit-breaker / Design	5SM3
Mechanical service life (switching cycles) / typical	10 000
Switching function / short-term delayed	Yes
Oversoltage category	III
Supply voltage	
Current / at AC / rated value	40 A
<ul style="list-style-type: none"> <li>• Supply voltage / at AC / rated value</li> <li>• Supply voltage / for testing equipment / minimum</li> <li>• rated value</li> </ul>	400 V 195 V 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	1.1 W

Current	
Tripping residual current / rated value	30 mA
Tripping residual / rated value / derated current	
<ul style="list-style-type: none"> <li>• at 40 Cel</li> <li>• at 45 Cel</li> <li>• at 50 Cel</li> <li>• at 55 Cel</li> <li>• at 60 Cel</li> <li>• at 65 Cel</li> <li>• at 70 Cel</li> </ul>	40 A 40 A 37.6 A 35.2 A 32.8 A 30.4 A 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
Operating frequency	50/60Hz

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

Connections	
Connectable conductor cross-section	
<ul style="list-style-type: none"> <li>• solid</li> <li>• stranded</li> </ul>	1.5 ... 25 mm <sup>2</sup> 1.5 ... 25 mm <sup>2</sup>
Tightening torque / with screw-type terminals	2.5 ... 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	77 mm
Installation depth	70 mm
Number of width units	4
Mounting type	DIN rail (REG)

Mounting position	any
Net weight	568 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 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=5SM3344-4KK14>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SM3344-4KK14>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SM3344-4KK14](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SM3344-4KK14)

**CAX-Online-Generator**

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

**Tender specifications**

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

