

Residual current operated circuit breaker, 4-pole, type B, short-time delayed, In: 40 A, 300 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
Short-circuit current rating	10 kA
circuit-breaker / Design	5SM3
Mechanical service life (switching cycles) / typical	10 000
Switching function / short-term delayed	Yes
Overvoltage 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> </ul>	400 V 195 V

- 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 1.1 W

### Current

Tripping residual current / rated value 300 mA

Tripping residual / rated value / derated current

- at 40 Cel 40 A
- at 45 Cel 40 A
- at 50 Cel 38.4 A
- at 55 Cel 36.8 A
- at 60 Cel 35.2 A
- at 65 Cel 33.6 A
- at 70 Cel 32 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

- 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

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	543 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	Declaration of Conformity	Test Certificates	other
--------------------------	---------------------------	-------------------	-------



[Miscellaneous](#)



[Miscellaneous](#)

[Miscellaneous](#)

#### 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=5SM3644-4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SM3644-4>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SM3644-4](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SM3644-4)

##### CAX-Online-Generator

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

##### Tender specifications

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

