

Residual current operated circuit breaker, 4-pole, type A, selective,
In: 125 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	125 A
<ul style="list-style-type: none"> • Supply voltage / at AC / rated value • Supply voltage / for testing equipment / minimum 	400 V 100 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 1.25 kA

Dissipation

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

Current

Tripping residual current / rated value 300 mA

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

I²t-value / permissible 94 000 A²·s

Surge current resistance / rated value 5 kA

Operating frequency 50Hz

Product details

Product feature / silicon-free Yes

Product extension / can be installed / supplementary devices Yes

Connections

Connectable conductor cross-section

- solid 2.5 ... 50 mm²
- stranded 2.5 ... 50 mm²

Tightening torque / with screw-type terminals 3 ... 3.5 N·m

Position / of power supply cord top or bottom

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	538 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
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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=5SM3645-8>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SM3645-8>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SM3645-8

CAX-Online-Generator

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

Tender specifications

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

