

Residual current operated circuit breaker, 4-pole, type A, selective,
In: 100 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	
Operating current / at AC / rated value	100 A
Supply voltage	
• at AC / rated value	400 V
• for testing equipment / minimum	195 V

Operating frequency	50 Hz
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	1 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
Type of fault current	A
Surge current resistance / rated value	5 kA

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

Connections	
Connectable conductor cross-section / solid	
• minimum	2.5 mm ²
• maximum	50 mm ²
Connectable conductor cross-section / stranded	
• minimum	2.5 mm ²
• maximum	50 mm ²
Tightening torque / with screw-type terminals	
• minimum	3 N·m
• maximum	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	519 g

Environmental conditions

Ambient temperature	
• minimum	-25 °C
• maximum	45 °C
Ambient temperature / during storage	
• minimum permissible	-40 °C
• maximum permissible	75 °C

Certificates

Reference code	
• acc. to DIN EN 61346-2	F
• acc. to DIN EN 81346-2	F

General Product Approval

[Miscellaneous](#)

Declaration of Conformity



EG-Konf.

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=5SM3648-8>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SM3648-8>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SM3648-8

CAX-Online-Generator

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

Tender specifications

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