

Residual current operated circuit breaker, 4-pole, type A, In: 100 A, 500 mA, Un AC: 400 V



Model	
Product brand name	SENTRON
Product designation	RCCB
Design of the product	Instantaneous
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	100 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 100 V

• rated value	50 Hz
<b>Protection class</b>	
Protection class IP	IP20, if the distribution board is installed, with connected conductors
<b>Switching capacity</b>	
Switching capacity current / according to IEC 61008-1 / rated value	1 kA
<b>Dissipation</b>	
Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	8.9 W
<b>Current</b>	
Tripping residual current / rated value	500 mA
Type of fault current	A
Surge current resistance / rated value	1 kA
Operating frequency	50Hz
<b>Product details</b>	
Product feature / silicon-free	Yes
Product extension / can be installed / supplementary devices	Yes
<b>Connections</b>	
Connectable conductor cross-section	
• solid	2.5 ... 50 mm <sup>2</sup>
• stranded	2.5 ... 50 mm <sup>2</sup>
Tightening torque / with screw-type terminals	3 ... 3.5 N·m
Position / of power supply cord	top or bottom
<b>Mechanical Design</b>	
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
<b>Environmental conditions</b>	
Ambient temperature	-25 ... +45 °C
• during storage	-40 ... +75 °C
<b>Certificates</b>	
Reference code	
• acc. to DIN EN 61346-2	F

General Product Approval

Declaration of Conformity



[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=5SM3748-6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SM3748-6>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SM3748-6](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SM3748-6)

**CAX-Online-Generator**

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

**Tender specifications**

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

