



Residual current operated circuit breaker, 4-pole, Type B, selective, In: 80 A, 500 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 / according to DIN 43880	1
mechanical service life (switching cycles) / typical	10 000
short-circuit current / of series fuse / maximum permissible	100 A
short-circuit current rating	10 kA
switching function / short-term delayed	No
overvoltage category	III
Supply voltage	
supply voltage / for testing equipment / minimum	70 V
value range / of the supply voltage frequency	50/60 Hz
value range / of the operating frequency	50/60 Hz
value range / of the supply voltage / at AC	70-440 V
Protection class	
protection class IP	IP20, if the distribution board is installed, with connected conductors
Switching capacity	
switching capacity current	
<ul style="list-style-type: none"> <li>according to IEC 61008-1 / rated value</li> </ul>	0.8 kA
Dissipation	
power loss [W]	
<ul style="list-style-type: none"> <li>for rated value of the current / at AC / in hot operating state / per pole</li> </ul>	7.5 W
<ul style="list-style-type: none"> <li>maximum</li> </ul>	22.5 W
Current	
tripping fault current / rated value	500 mA
operational current	
<ul style="list-style-type: none"> <li>at 40 °C / rated value</li> </ul>	80 A
<ul style="list-style-type: none"> <li>at 45 °C / rated value</li> </ul>	80 A
<ul style="list-style-type: none"> <li>at 50 °C / rated value</li> </ul>	80 A
<ul style="list-style-type: none"> <li>at 55 °C / rated value</li> </ul>	72 A
<ul style="list-style-type: none"> <li>at 60 °C / rated value</li> </ul>	64 A
<ul style="list-style-type: none"> <li>at 65 °C / rated value</li> </ul>	56 A
<ul style="list-style-type: none"> <li>at 70 °C / rated value</li> </ul>	48 A
<ul style="list-style-type: none"> <li>at AC / rated value</li> </ul>	80 A
residual current type	B

let-through current / permissible	7 000 A
I <sup>2</sup> t value / permissible	60 000 A <sup>2</sup> ·s
surge current resistance / rated value	5 kA
<b>Product details</b>	
product feature / silicon-free	Yes
product extension / installable / supplementary devices	Yes
<b>Connections</b>	
connectable conductor cross-section / solid	
• minimum	0.75 mm <sup>2</sup>
• maximum	35 mm <sup>2</sup>
connectable conductor cross-section / stranded	
• minimum	0.75 mm <sup>2</sup>
• maximum	35 mm <sup>2</sup>
tightening torque / with screw-type terminals	
• minimum	2.5 N·m
• maximum	3 N·m
position / of power supply cord	top or bottom (top for SIGRES function also in switched-off state)
<b>Mechanical Design</b>	
height	90 mm
width	72 mm
depth	70 mm
installation depth	70 mm
number of modular width units	4
fastening method	DIN rail (REG)
mounting position	any
net weight	587 g
<b>Environmental conditions</b>	
ambient temperature / during operation	
• minimum	-25 °C
• maximum	45 °C
ambient temperature / during storage	
• minimum permissible	-40 °C
• maximum permissible	75 °C
number of test cycles / for environmental testing / according to IEC 60068-2-30	28

**General Product Approval**
**Declaration of Conformity**
[Confirmation](#)

[Miscellaneous](#)


EG-Konf.

**Test Certificates**
**other**
**Railway**
**Dangerous Good**
[Miscellaneous](#)
[Confirmation](#)
[Miscellaneous](#)
[Confirmation](#)
[Vibration and Shock](#)
[Transport Information](#)
**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=5SV3747-5>
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
<https://support.industry.siemens.com/cs/ww/en/ps/5SV3747-5>
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SV3747-5](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV3747-5)
**CAX-Online-Generator**
<http://www.siemens.com/cax>

Tender specifications

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



