



Residual current operated circuit breaker, 2-pole, Type AC, In: 25 A, 30 mA, Un AC: 230 V

Model	
product brand name	SENTRON
product designation	RCCB
design of the product	Instantaneous
General technical data	
number of poles	2
size of installation devices / acc. to DIN 43880	1
mechanical service life (switching cycles) / typical	10 000
short-circuit current / of series fuse / maximum permissible	63 A
short-circuit current rating	10 kA
switching function / short-term delayed	No
overvoltage category	III
Supply voltage	
supply voltage	
• at AC / rated value	230 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	
• acc. to EN 60898 / rated value	0.5 kA
• according to IEC 61008-1 / rated value	0.5 kA
Dissipation	
power loss [W]	
• for rated value of the current / at AC / in hot operating state / per pole	1 W
• maximum	2 W
Current	
tripping fault current / rated value	30 mA
operational current	
• at 40 °C / rated value	25 A
• at 45 °C / rated value	25 A
• at 50 °C / rated value	25 A
• at 55 °C / rated value	25 A
• at 60 °C / rated value	25 A

<ul style="list-style-type: none"> <li>• at 65 °C / rated value</li> <li>• at 70 °C / rated value</li> <li>• at AC / rated value</li> </ul>	23.3 A
	17.6 A
	25 A
residual current type	AC
let-through current / permissible	5 200 kA
I <sub>2t</sub> value / permissible	58 000 A <sup>2</sup> ·s

#### Product details

product feature / silicon-free	Yes
product extension / installable / supplementary devices	Yes

#### Connections

connectable conductor cross-section / solid	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	0.75 mm <sup>2</sup> 35 mm <sup>2</sup>
connectable conductor cross-section / stranded	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	0.75 mm <sup>2</sup> 35 mm <sup>2</sup>
tightening torque / with screw-type terminals	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	2.5 N·m 3 N·m
position / of power supply cord	top or bottom

#### Mechanical Design

height	90 mm
width	36 mm
depth	70 mm
installation depth	70 mm
number of modular width units	2
fastening method	DIN rail (REG)
mounting position	any
net weight	201 g

#### Environmental conditions

ambient temperature / during operation	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	-25 °C 45 °C
ambient temperature / during storage	
<ul style="list-style-type: none"> <li>• minimum permissible</li> <li>• maximum permissible</li> </ul>	-40 °C 75 °C
number of test cycles / for environmental testing / acc. to IEC 60068-2-30	28

#### General Product Approval

EMC



[Miscellaneous](#)



Declaration of Conformity	other	Railway
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[Miscellaneous](#)

[Vibration and Shock](#)

[Confirmation](#)

#### 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=5SV4312-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SV4312-0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SV4312-0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV4312-0)

CAx-Online-Generator

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

Tender specifications

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



