



Residual current operated circuit breaker, 2-pole, type A, In: 80 A, 300 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 / according to DIN 43880	1
mechanical service life (switching cycles) / typical	10 000
short-circuit current / of series fuse / maximum permissible	80 A
short-circuit current rating	10 kA
switching function / short-term delayed	No
overvoltage category	III
Supply voltage	
supply voltage / for testing equipment / minimum	100 V
value range / of the supply voltage frequency	50 Hz
value range / of the operating frequency	50 Hz
value range / of the supply voltage / at AC	230/400 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"> according to IEC 61008-1 / rated value 	0.8 kA
Dissipation	
power loss [W]	
<ul style="list-style-type: none"> for rated value of the current / at AC / in hot operating state / per pole 	3.9 W
<ul style="list-style-type: none"> maximum 	7.8 W
Current	
tripping fault current / rated value	300 mA
operational current	
<ul style="list-style-type: none"> at 40 °C / rated value 	80 A
<ul style="list-style-type: none"> at 45 °C / rated value 	77.87 A
<ul style="list-style-type: none"> at 50 °C / rated value 	74.77 A
<ul style="list-style-type: none"> at 55 °C / rated value 	70.26 A
<ul style="list-style-type: none"> at 60 °C / rated value 	64.32 A
<ul style="list-style-type: none"> at 65 °C / rated value 	56.96 A
<ul style="list-style-type: none"> at 70 °C / rated value 	48.2 A
<ul style="list-style-type: none"> at AC / rated value 	80 A
residual current type	A

let-through current / permissible	7 100 A
I ² t value / permissible	110 000 A ² ·s
surge current resistance / rated value	1 kA

Product details

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

Connections

connectable conductor cross-section / solid	
• minimum	0.75 mm ²
• maximum	35 mm ²
connectable conductor cross-section / stranded	
• minimum	0.75 mm ²
• maximum	35 mm ²
tightening torque / with screw-type terminals	
• minimum	2.5 N·m
• maximum	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	200 g

Environmental conditions

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



[Confirmation](#)



General Product Approval	EMC	Declaration of Conformity	Test Certificates
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[Miscellaneous](#)



[Miscellaneous](#)

other	Railway	Dangerous Good
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[Environmental Con-
firmations](#)

[Miscellaneous](#)

[Confirmation](#)

[Vibration and Shock](#)

[Transport Informa-
tion](#)

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=5SV3617-6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SV3617-6>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV3617-6

CAX-Online-Generator

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

Tender specifications

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



