



Residual current operated circuit breaker, 4-pole, Type A, In: 25A, 300mA, Un AC: 400V Residential

Model	
product brand name	SENTRON
product designation	RCCB
design of the product	Instantaneous
General technical data	
number of poles	4
size of installation devices / according to DIN 43880	1
mechanical service life (switching cycles) / typical	3 000
short-circuit current / of series fuse / maximum permissible	80 A
short-circuit current rating	6 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 	1 W
<ul style="list-style-type: none"> maximum 	3 W
Current	
tripping fault current / rated value	300 mA
operational current	
<ul style="list-style-type: none"> at 40 °C / rated value 	25 A
<ul style="list-style-type: none"> at AC / rated value 	25 A
residual current type	A
let-through current / permissible	5 200 A
I ² t value / permissible	58 000 A ² ·s
surge current resistance / rated value	1 kA
Product details	
product feature / silicon-free	Yes
product extension / installable / supplementary devices	No

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

Mechanical Design	
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	328 g

Environmental conditions	
ambient temperature / during operation	
<ul style="list-style-type: none"> • minimum • maximum 	-5 °C 45 °C
ambient temperature / during storage	
<ul style="list-style-type: none"> • minimum permissible • maximum permissible 	-40 °C 75 °C
number of test cycles / for environmental testing / according to IEC 60068-2-30	28

General Product Approval	other	Dangerous Good
---------------------------------	--------------	-----------------------

[Confirmation](#)



[Miscellaneous](#)

[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=5SV5642-6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SV5642-6>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV5642-6

CAX-Online-Generator

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

Tender specifications

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



