

Residual current operated circuit breaker, 2-pole, type A, In: 25 A, 100 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
protection against electrical shock	Finger and back-of-hand safe
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	
operating current / at AC / rated value	25 A
<ul style="list-style-type: none"> supply voltage / at AC / rated value 	230/400 V

<ul style="list-style-type: none"> supply voltage / for testing equipment / minimum 	100 V
operating frequency	50 Hz
supply voltage frequency	
<ul style="list-style-type: none"> rated value 	50 Hz

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"> acc. to EN 60898 / rated value 	0.5 kA
<ul style="list-style-type: none"> according to IEC 61008-1 / rated value 	0.5 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 	0.6 W
<ul style="list-style-type: none"> maximum 	1.2 W

Current	
tripping residual current / rated value	100 mA
type of fault current	A
let-through current / permissible	5 200 kA
I ² t value / permissible	58 000 A ² ·s
surge current resistance / rated value	1 kA
operating current	
<ul style="list-style-type: none"> at 40 °C / rated value 	25 A
<ul style="list-style-type: none"> at 45 °C / rated value 	25 A
<ul style="list-style-type: none"> at 50 °C / rated value 	25 A
<ul style="list-style-type: none"> at 55 °C / rated value 	25 A
<ul style="list-style-type: none"> at 60 °C / rated value 	25 A
<ul style="list-style-type: none"> at 65 °C / rated value 	23.3 A
<ul style="list-style-type: none"> at 70 °C / rated value 	17.62 A

Product details	
product feature / silicon-free	Yes
product extension / can be installed / supplementary devices	Yes

Connections	
connectable conductor cross-section / solid	
<ul style="list-style-type: none"> minimum 	0.75 mm ²
<ul style="list-style-type: none"> maximum 	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	36 mm
depth	70 mm
installation depth	70 mm
number of width units	2
mounting type	DIN rail (REG)
mounting position	any
net weight	203 g

Environmental conditions

ambient temperature <ul style="list-style-type: none"> • minimum • maximum 	-25 °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 / acc. to IEC 60068-2-30	28

Certificates

reference code <ul style="list-style-type: none"> • acc. to DIN EN 61346-2 • acc. to DIN EN 81346-2 	F F
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General Product Approval

EMC



[Miscellaneous](#)



Declaration of Conformity

other

Railway



[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=5SV3412-6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SV3412-6>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV3412-6

CAX-Online-Generator

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

Tender specifications

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





