

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
Protection against electrical shock	Finger and back-of-hand safe
Short-circuit current rating	10 kA
circuit-breaker / Design	5SV4
Mechanical service life (switching cycles) / typical	10 000
Switching function / short-term delayed	No
Overvoltage category	III
Supply voltage	
Supply voltage	
<ul style="list-style-type: none"> at AC / rated value for testing equipment / minimum 	230 V 195 V
Supply voltage frequency	

- rated value

50 Hz

Protection class

Protection class IP	IP20, if the distribution board is installed, with connected conductors
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Switching capacity

Switching capacity current / according to IEC 61008-1 / rated value	0.5 kA
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Dissipation

Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1 W
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Electricity

Tripping residual current / rated value	30 mA
Tripping residual / rated value / derated current	
<ul style="list-style-type: none"> • at 40 Cel • at 45 Cel • at 50 Cel • at 55 Cel • at 60 Cel • at 65 Cel • at 70 Cel 	25 A 25 A 25 A 25 A 25 A 23.3 A 17.62 A
Type of fault current	AC
Current / at AC / rated value	25 A
I ² t-value / permissible	38 000 A ² ·s

Product details

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

Number

Number of test cycles / for environmental testing / acc. to IEC 60068-2-30	28
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Connections

Connectable conductor cross-section / stranded	
<ul style="list-style-type: none"> • minimum • maximum 	0.75 mm ² 35 mm ²
Connectable conductor cross-section / solid	
<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
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Mechanical Design

Height	90 mm
Width	36 mm
Depth	70 mm
Mounting position	any
Installation depth	70 mm
Number of width units	2
Mounting type	DIN rail (REG)
Net weight	201 g


Environmental conditions

Ambient temperature	
<ul style="list-style-type: none"> • minimum 	-25 °C
<ul style="list-style-type: none"> • maximum 	45 °C
<ul style="list-style-type: none"> • during storage / minimum permissible 	-40 °C
<ul style="list-style-type: none"> • during storage / maximum permissible 	75 °C

Certificates

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

Waste electronic equipment must not be disposed as unsorted municipal waste, e.g. household waste. For disposing the waste electronic equipment it is necessary to observe the current local national/international regulations.



General Product Approval	Declaration of Conformity	other	Railway
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[Miscellaneous](#)



[Miscellaneous](#)

[Vibration and Shock](#)

Railway

[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, ...)

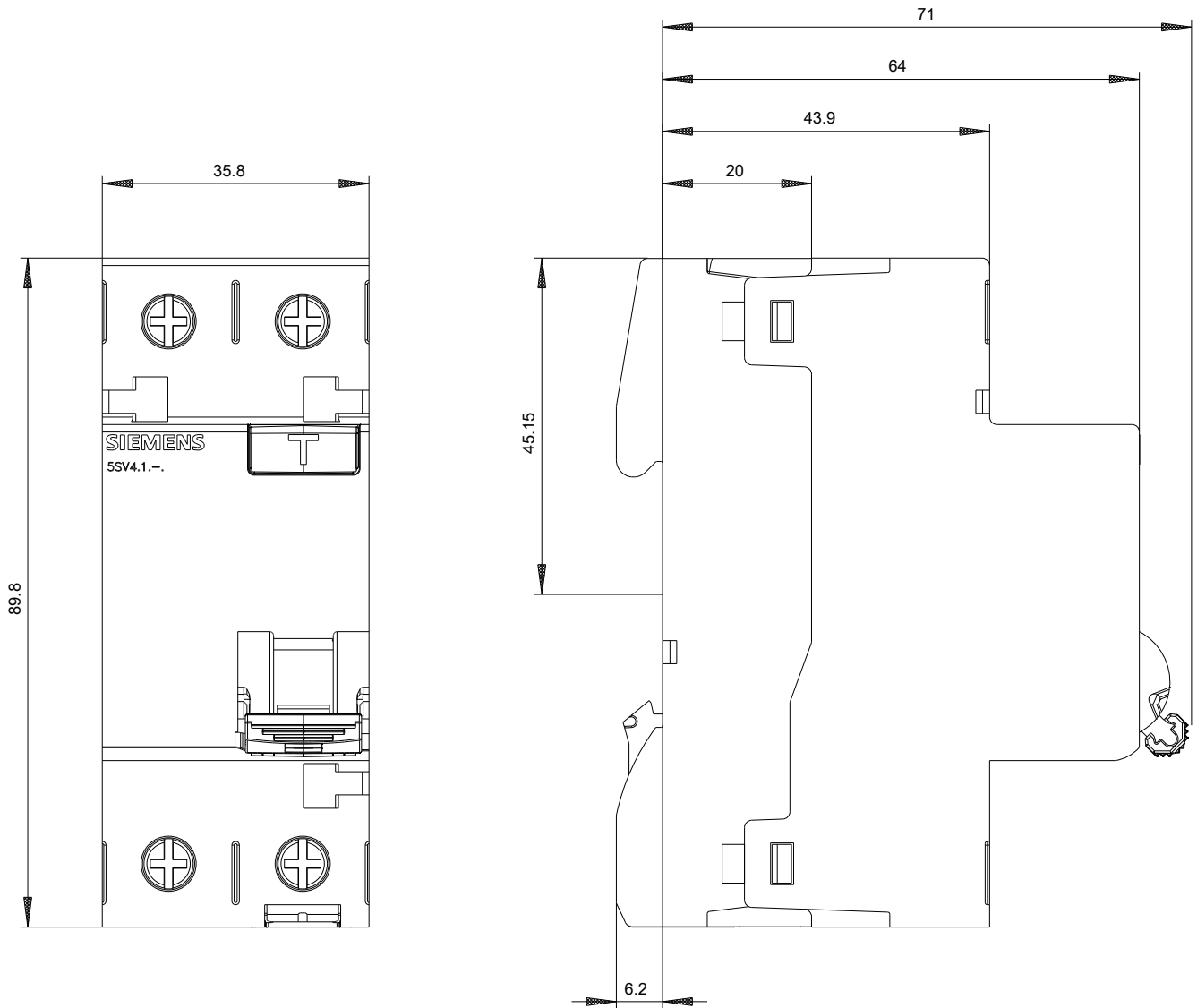
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV4312-0

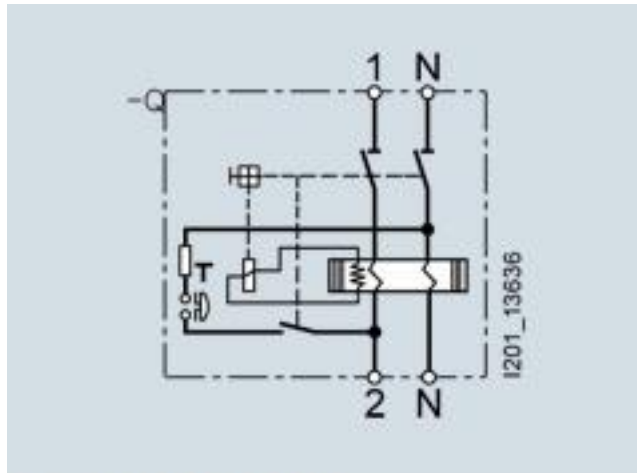
CAX-Online-Generator

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

Tender specifications

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





Internal circuit diagram IEC

-CB

