

Model	
product brand name	SENTRON
product designation	RCBO
design of the product	Instantaneous
General technical data	
number of poles	2
number of poles with protection	1
design of pole	1P+N
tripping characteristic class	B
mechanical service life (operating cycles) typical	10 000
overvoltage category	3
degree of pollution	2
Voltage	
type of voltage of the operating voltage	AC
insulation voltage (U _i) rated value	253 V
surge voltage resistance rated value	4 000 V
surge current resistance at (8/20) μ s	1 kA
tripping fault current rated value	30 mA
<ul style="list-style-type: none"> ● operational current <ul style="list-style-type: none"> — at 30 °C rated value — at 40 °C rated value — at 45 °C rated value — at 50 °C rated value — at 55 °C rated value — at 60 °C rated value — at 65 °C rated value — at 70 °C rated value ● operational current at AC rated value 	10 A 9.4 A 9.1 A 8.8 A 8.4 A 8.1 A 7.7 A 7.4 A 10 A
residual current type	A
Supply voltage	
supply voltage <ul style="list-style-type: none"> ● at AC rated value ● for testing equipment minimum 	230 V 195 V
operating frequency	50/60 Hz

supply voltage frequency rated value	50 Hz
Protection class	
protection class IP	IP20, if the distribution board is installed, with connected conductors
Breaking Capacity	
switching capacity current	
• according to EN 60898 rated value	6 kA
• according to IEC 60947-2 rated value	25 kA
short-circuit current breaking capacity (I _{cn}) according to EN 61009-1 rated value	6 kA
rated residual switching capacity (I _{Δm}) according to IEC 61009-1	4.5 kA
energy limitation class	3
Dissipation	
power loss [W]	
• maximum	2.2 W
Product details	
product feature touch protection	Yes
product component neutral conductor switching	Yes
product feature halogen-free	Yes
product feature silicon-free	Yes
Connections	
connectable conductor cross-section solid	
• minimum	0.75 mm ²
• maximum	16 mm ²
connectable conductor cross-section stranded	
• minimum	0.75 mm ²
• maximum	16 mm ²
connectable conductor cross-section finely stranded with core end processing	
• minimum	0.75 mm ²
• maximum	10 mm ²
tightening torque with screw-type terminals	
• minimum	1.2 N·m
• maximum	2 N·m
position of power supply cord	Either top or bottom
Mechanical Design	
height	90 mm
width	18 mm
depth	77 mm
installation depth	70 mm
number of modular width units	1
mounting position	any
Net Weight	129 g
weight with packaging	133 g
Environmental conditions	
influence of the surrounding temperature	Max. 95% humidity
ambient temperature during operation	
• minimum	-25 °C
• maximum	45 °C
ambient temperature during storage	
• minimum	-40 °C
• maximum	75 °C
number of test cycles for environmental testing according to IEC 60068-2-30	28
Environmental footprint	
Environmental Product Declaration (EPD)	Yes
global warming potential [CO ₂ eq] total	17.95026 kg
global warming potential [CO ₂ eq] during manufacturing	1.32 kg
global warming potential [CO ₂ eq] during operation	16.6 kg
global warming potential [CO ₂ eq] after end of life	0.0016 kg

Siemens Eco Profile (SEP) Siemens EcoTech

Approvals Certificates

General Product Approval



[Confirmation](#)



General Product Approval Test Certificates other



[Miscellaneous](#)

[Special Test Certificate](#)

[Miscellaneous](#)



[Confirmation](#)

other Dangerous goods Environment

[Miscellaneous](#)

[Transport Information](#)



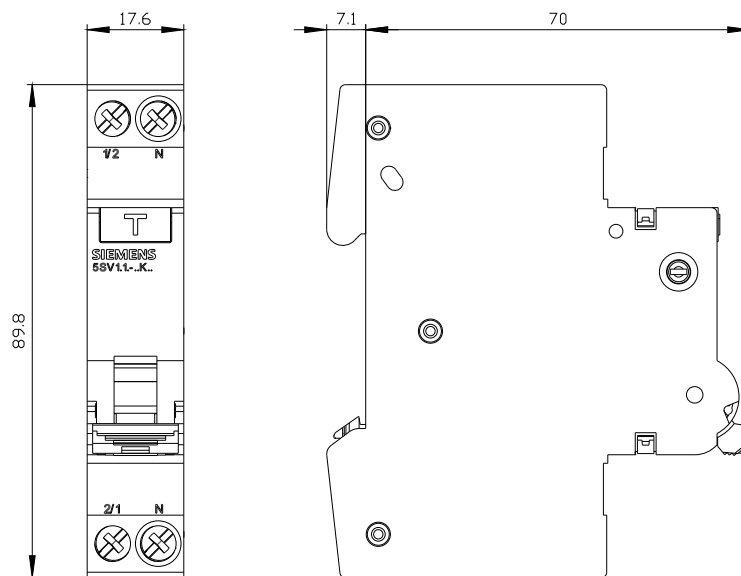
[Environmental Confirmations](#)

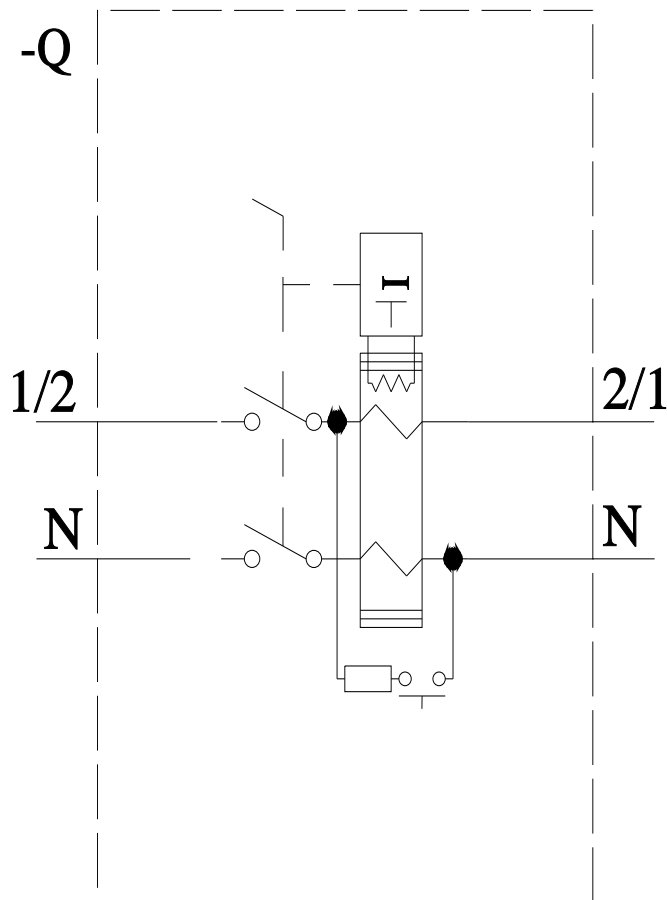
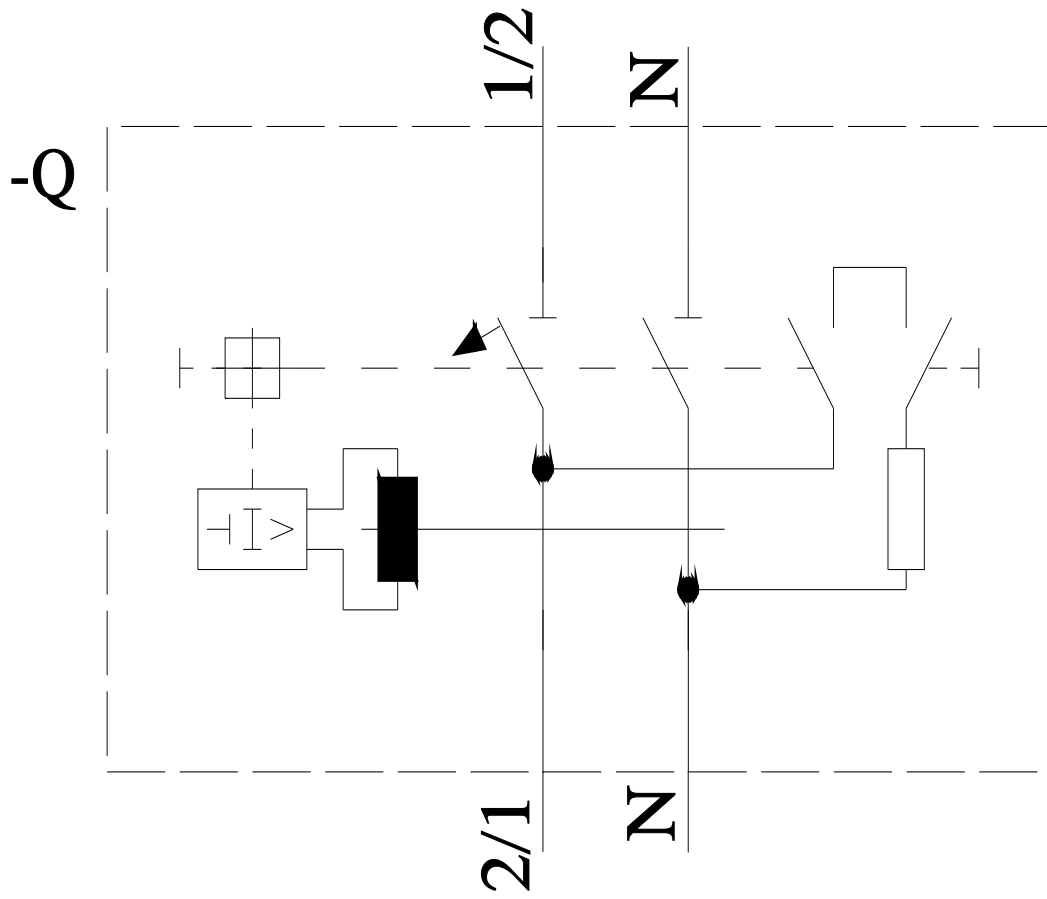


[Environmental Confirmations](#)

Further information

- Information on the packaging <https://support.industry.siemens.com/cs/ww/en/view/109813875>
- Information for data generation and storage <https://support.industry.siemens.com/cs/ww/en/view/109995012>
- Information- and Downloadcenter (Catalogs, Brochures,...) <https://www.siemens.com/lowvoltage/catalogs>
- Industry Mall (Online ordering system) <https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SV1316-6KK10>
- Service&Support (Manuals, Certificates, Characteristics, FAQs,...) <https://support.industry.siemens.com/cs/ww/en/ps/5SV1316-6KK10>
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV1316-6KK10
- CAX-Online-Generator <https://www.siemens.com/cax>
- Tender specifications <https://www.siemens.com/specifications>





last modified:

7/22/2025 

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