

Siemens  
EcoTech



RCBO compact 1-pole+N 4.5 kA type AC 300 mA C10, use of these devices is not permitted in all countries. Observe national installation regulations!



Figure similar

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	C
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 <sub>i</sub> ) rated value	253 V
surge voltage resistance rated value	4 000 V
tripping fault current rated value	300 mA
<ul style="list-style-type: none"> <li>• operational current                             <ul style="list-style-type: none"> <li>— at 30 °C rated value</li> <li>— at 40 °C rated value</li> <li>— at 45 °C rated value</li> <li>— at 50 °C rated value</li> <li>— at 55 °C rated value</li> <li>— at 60 °C rated value</li> <li>— at 65 °C rated value</li> <li>— at 70 °C rated value</li> </ul> </li> <li>• operational current at AC rated value</li> </ul>	<ul style="list-style-type: none"> <li>10 A</li> <li>9.4 A</li> <li>9.1 A</li> <li>8.8 A</li> <li>8.4 A</li> <li>8.1 A</li> <li>7.7 A</li> <li>7.4 A</li> <li>10 A</li> </ul>
residual current type	AC
Supply voltage	
supply voltage <ul style="list-style-type: none"> <li>• at AC rated value</li> <li>• for testing equipment minimum</li> </ul>	<ul style="list-style-type: none"> <li>230 V</li> <li>195 V</li> </ul>
operating frequency	50/60 Hz
supply voltage frequency rated value	50 Hz
Protection class	

<b>protection class IP</b>	IP20, if the distribution board is installed, with connected conductors
<b>Breaking Capacity</b>	
<b>switching capacity current</b>	
• according to EN 60898 rated value	4.5 kA
• according to IEC 60947-2 rated value	5 kA
<b>short-circuit current breaking capacity (I<sub>cn</sub>) according to EN 61009-1 rated value</b>	4.5 kA
<b>rated residual switching capacity (I<sub>Δm</sub>) according to IEC 61009-1</b>	4.5 kA
<b>energy limitation class</b>	3
<b>Dissipation</b>	
<b>power loss [W]</b>	
• maximum	1.9 W
<b>Product details</b>	
<b>product feature touch protection</b>	Yes
product component neutral conductor switching	Yes
<b>product feature halogen-free</b>	Yes
<b>product feature silicon-free</b>	Yes
<b>Connections</b>	
<b>connectable conductor cross-section solid</b>	
• minimum	0.75 mm <sup>2</sup>
• maximum	16 mm <sup>2</sup>
<b>connectable conductor cross-section stranded</b>	
• minimum	0.75 mm <sup>2</sup>
• maximum	16 mm <sup>2</sup>
<b>connectable conductor cross-section finely stranded with core end processing</b>	
• minimum	0.75 mm <sup>2</sup>
• maximum	10 mm <sup>2</sup>
<b>tightening torque with screw-type terminals</b>	
• minimum	1.2 N·m
• maximum	2 N·m
<b>position of power supply cord</b>	Either top or bottom
<b>Mechanical Design</b>	
<b>height</b>	90 mm
<b>width</b>	18 mm
<b>depth</b>	77 mm
<b>installation depth</b>	70 mm
<b>number of modular width units</b>	1
<b>mounting position</b>	any
<b>Net Weight</b>	130 g
<b>weight with packaging</b>	133 g
<b>Environmental conditions</b>	
<b>influence of the surrounding temperature</b>	Max. 95% humidity
<b>ambient temperature during operation</b>	
• minimum	-25 °C
• maximum	45 °C
<b>ambient temperature during storage</b>	
• minimum	-40 °C
• maximum	75 °C
<b>number of test cycles for environmental testing according to IEC 60068-2-30</b>	28
<b>Environmental footprint</b>	
Environmental Product Declaration (EPD)	Yes
global warming potential [CO <sub>2</sub> eq] total	17.95026 kg
global warming potential [CO <sub>2</sub> eq] during manufacturing	1.32 kg
global warming potential [CO <sub>2</sub> eq] during operation	16.6 kg
global warming potential [CO <sub>2</sub> eq] after end of life	0.0016 kg
Siemens Eco Profile (SEP)	Siemens EcoTech
<b>Approvals Certificates</b>	
<b>General Product Approval</b>	<b>Test Certificates</b>



[Special Test Certificate](#)

[Miscellaneous](#)

other

Dangerous goods

Environment



[Miscellaneous](#)

[Confirmation](#)

[Miscellaneous](#)

[Transport Information](#)



Environment

Siemens EcoTech



[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,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SV1613-1KK10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SV1613-1KK10>

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

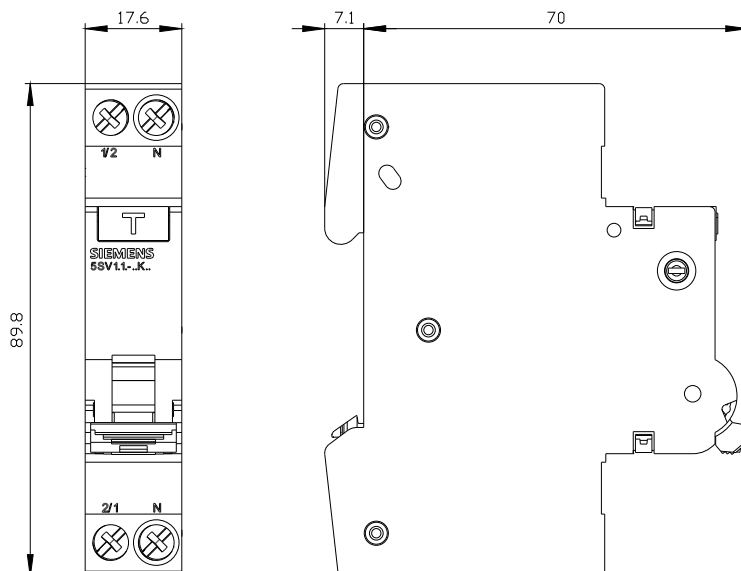
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SV1613-1KK10](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV1613-1KK10)

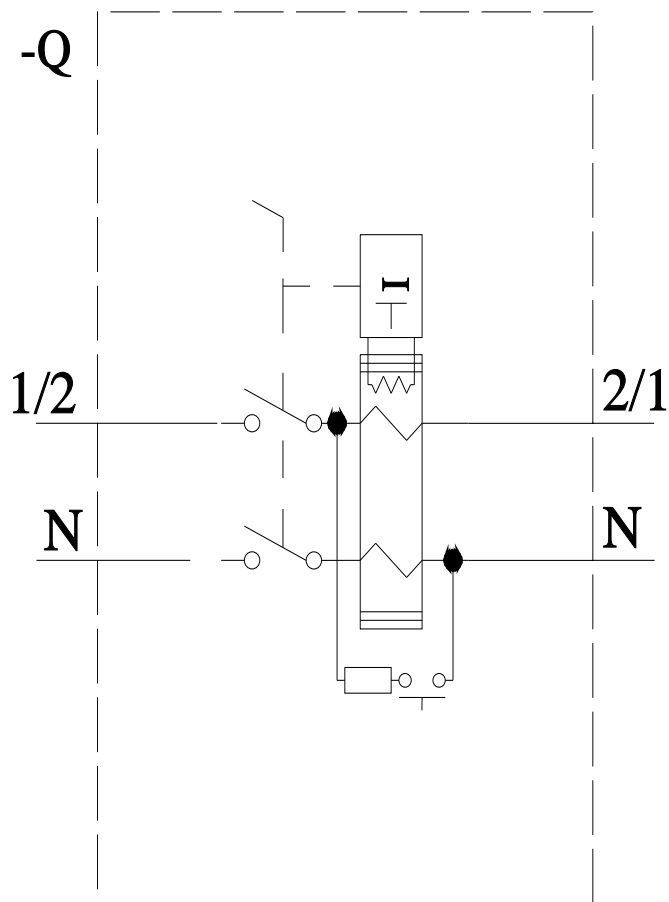
CAX-Online-Generator

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

Tender specifications

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





last modified:

7/22/2025 