

Siemens  
EcoTech



RCBO compact 1P+N 4.5 kA type A 300 mA C10



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
surge current resistance at (8/20) $\mu$ s	1 kA
tripping fault current rated value	300 mA
<ul style="list-style-type: none"> <li>● operational current</li> <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> <li>● operational current at AC rated value</li> </ul>	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"> <li>● at AC rated value</li> <li>● for testing equipment minimum</li> </ul>	230 V 195 V
operating frequency	50/60 Hz

supply voltage frequency rated value	50 Hz
<b>Protection class</b>	
<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>	125 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

## Approvals Certificates

## General Product Approval

## Test Certificates

[Confirmation](#)

EG-Konf.



VDE

[Special Test Certificate](#)

## Test Certificates

## other

## Dangerous goods

[Miscellaneous](#)[Confirmation](#)[Miscellaneous](#)[Miscellaneous](#)[Transport Information](#)

## Environment

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## 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=5SV1613-7KK10>

## Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/5SV1613-7KK10>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SV1613-7KK10](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV1613-7KK10)

## CAx-Online-Generator

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

## Tender specifications

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

## Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="HAUPT"></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)



