

Siemens  
EcoTech



RCBO compact 1-pole+N 6 kA type AC 300 mA C6, 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>6 A</li> <li>5.64 A</li> <li>5.46 A</li> <li>5.28 A</li> <li>5.04 A</li> <li>4.86 A</li> <li>4.62 A</li> <li>4.44 A</li> <li>6 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	
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	10 kA
short-circuit current breaking capacity (I <sub>cn</sub> ) according to EN 61009-1 rated value	6 kA
rated residual switching capacity (I <sub>Δm</sub> ) according to IEC 61009-1	4.5 kA
energy limitation class	3
Dissipation	
power loss [W]	
• maximum	1.2 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 <sup>2</sup>
• maximum	16 mm <sup>2</sup>
connectable conductor cross-section stranded	
• minimum	0.75 mm <sup>2</sup>
• maximum	16 mm <sup>2</sup>
connectable conductor cross-section finely stranded with core end processing	
• minimum	0.75 mm <sup>2</sup>
• maximum	10 mm <sup>2</sup>
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
Approvals Certificates	
Environmental Product Declaration	
• global warming potential [CO <sub>2</sub> eq] / during manufacturing	1.32 kg
• global warming potential [CO <sub>2</sub> eq] / during sales	0.0287 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	0.00156 kg
• global warming potential [CO <sub>2</sub> eq] / total	17.95026 kg

Environment General Product Approval



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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=5SV1616-1KK06>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SV1616-1KK06>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SV1616-1KK06](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV1616-1KK06)

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=)





