

RCBO compact 1P+N 6 kA type A 30 mA B16



Model	
product brand name	SENTRON
product designation	RCBO
design of the product	Instantaneous
General technical data	
number of poles	2
number of poles / note	1P+N
number of poles / with protection	1
tripping characteristic class	B
mechanical service life (switching cycles) / typical	10 000
overvoltage category	III
degree of pollution	2
Voltage	
surge current resistance / at (8/20) $\mu$ s	1 kA
Supply voltage	
type of voltage	AC
operational current / at AC / rated value	16 A
supply voltage	

<ul style="list-style-type: none"> <li>• at AC / rated value</li> </ul>	230 V
<ul style="list-style-type: none"> <li>• for testing equipment / minimum</li> </ul>	195 V
operating frequency	50 Hz
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

breaking capacity short-circuit current (I <sub>cn</sub> ) / according to EN 61009-1 / rated value	6 kA
switching capacity current	
<ul style="list-style-type: none"> <li>• acc. to EN 60898 / rated value</li> </ul>	6 kA
<ul style="list-style-type: none"> <li>• acc. to IEC 60947-2 / rated value</li> </ul>	15 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]	
<ul style="list-style-type: none"> <li>• for rated value of the current / at AC / in hot operating state / per pole</li> </ul>	1.85 W
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	3.7 W

### Current

tripping fault current / rated value	30 mA
residual current type	A

### Product details

product function / neutral conductor switching	Yes
product feature / touch protection	Yes
product feature	
<ul style="list-style-type: none"> <li>• halogen-free</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• silicon-free</li> </ul>	Yes

### Connections

connectable conductor cross-section / solid	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	0.75 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	16 mm <sup>2</sup>
connectable conductor cross-section / stranded	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	0.75 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	16 mm <sup>2</sup>
connectable conductor cross-section / finely stranded / with core end processing	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	0.75 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	10 mm <sup>2</sup>

tightening torque / with screw-type terminals	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>1.2 N·m</p> <p>2 N·m</p>
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	117 g
weight / with packaging	133 g

### Environmental conditions

influence of the surrounding temperature	Max. 95% humidity
ambient temperature / during operation	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>-25 °C</p> <p>45 °C</p>
ambient temperature / during storage	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>-40 °C</p> <p>75 °C</p>
number of test cycles / for environmental testing / acc. to IEC 60068-2-30	28

### Certificates

reference code	
<ul style="list-style-type: none"> <li>• acc. to DIN EN 61346-2</li> <li>• acc. to IEC 81346-2</li> </ul>	<p>F</p> <p>F</p>

General Product Approval	Declaration of Conformity	Test Certificates	other
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[Special Test Certificate](#)

[Miscellaneous](#)

[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?mfb=5SV1316-6KK16>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SV1316-6KK16>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SV1316-6KK16](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV1316-6KK16)

CAx-Online-Generator

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

Tender specifications

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







