



RCBO, 6 kA, 3P Type A, 300mA, B-Char, In: 10A Un: 400V

Model	
product brand name	SENTRON
product designation	RCBO
design of the product	Instantaneous
General technical data	
number of poles	3
number of poles with protection	3
design of pole	3P
tripping characteristic class	B
mechanical service life (operating cycles) typical	10 000
overvoltage category	3
degree of pollution	3
Voltage	
type of voltage of the operating voltage	AC
insulation voltage (Ui) rated value	500 V
surge voltage resistance rated value	4 000 V
surge current resistance at (8/20) $\mu$ s	0.25 kA
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 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>9.6 A</li> <li>9.4 A</li> <li>9.1 A</li> <li>8.9 A</li> <li>8.6 A</li> <li>8.2 A</li> <li>10 A</li> </ul>
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>	<ul style="list-style-type: none"> <li>400 V</li> <li>340 V</li> </ul>
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
Breaking Capacity	
switching capacity current	

<ul style="list-style-type: none"> <li>• according to EN 60898 rated value</li> </ul>	6 kA
<ul style="list-style-type: none"> <li>• according to IEC 60947-2 rated value</li> </ul>	6 kA
<b>short-circuit current breaking capacity (I<sub>cn</sub>) according to EN 61009-1 rated value</b>	6 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

#### Dissipation

<b>power loss [W]</b>	
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	2.1 W

#### Product details

<b>product feature touch protection</b>	Yes
product component neutral conductor switching	No
<b>product feature halogen-free</b>	No

#### Connections

<b>connectable conductor cross-section solid</b>	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	1 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	35 mm <sup>2</sup>
<b>connectable conductor cross-section stranded</b>	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	1 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	35 mm <sup>2</sup>
<b>connectable conductor cross-section finely stranded with core end processing</b>	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	1 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	35 mm <sup>2</sup>
<b>tightening torque with screw-type terminals</b>	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	2 N·m
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	2 N·m
<b>position of power supply cord</b>	Either top or bottom

#### Mechanical Design

<b>height</b>	85 mm
<b>width</b>	54 mm
<b>depth</b>	72 mm
<b>installation depth</b>	70 mm
<b>number of modular width units</b>	3
<b>mounting position</b>	any
<b>Net Weight</b>	345 g
<b>weight with packaging</b>	368 g

#### Environmental conditions

<b>influence of the surrounding temperature</b>	Max. 95% humidity
<b>ambient temperature during operation</b>	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	-25 °C
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	40 °C
<b>ambient temperature during storage</b>	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	-40 °C
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	70 °C
<b>number of test cycles for environmental testing according to IEC 60068-2-30</b>	28

#### Approvals Certificates

General Product Approval	other
--------------------------	-------

[Confirmation](#)



[Miscellaneous](#)



other	Dangerous goods	Environment
-------	-----------------	-------------

[Miscellaneous](#)

[Confirmation](#)

[Miscellaneous](#)

[Transport Information](#)

[Environmental Con-](#)

[Environmental Con-](#)

**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=5SU1636-6FP10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SU1636-6FP10>

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

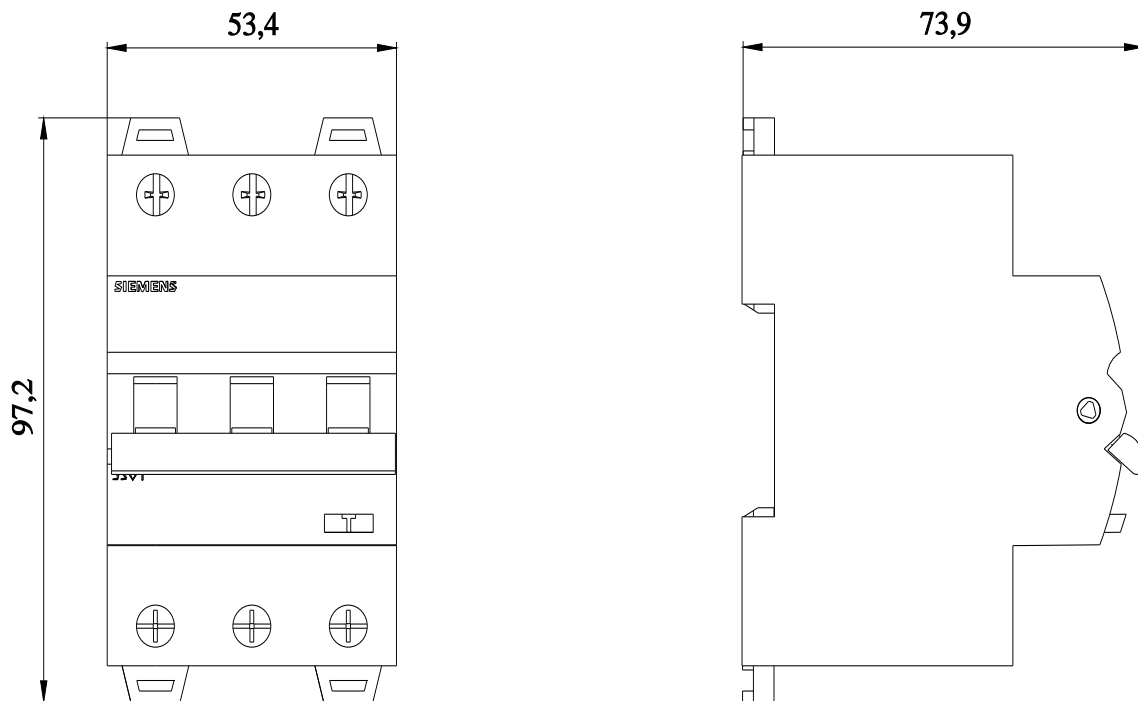
[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SU1636-6FP10](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SU1636-6FP10)

**CAX-Online-Generator**

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

**Tender specifications**

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



last modified:

7/22/2025 

