



RCBO, 6 kA, 4P Type A, 300mA, B-Char, In: 6A Un: 400V

Figure similar

Model	
product brand name	SENTRON
product designation	RCBO
design of the product	Instantaneous
General technical data	
number of poles	4
number of poles with protection	4
design of pole	4P
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>6 A</li> <li>5.7 A</li> <li>5.5 A</li> <li>5.3 A</li> <li>5.1 A</li> <li>5 A</li> <li>4.7 A</li> <li>6 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>195 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	

<b>switching capacity current</b>	
• according to EN 60898 rated value	6 kA
• according to IEC 60947-2 rated value	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
<b>Dissipation</b>	
<b>power loss [W]</b>	
• maximum	1.1 W
<b>Product details</b>	
<b>product feature touch protection</b>	Yes
product component neutral conductor switching	Yes
<b>product feature halogen-free</b>	No
<b>Connections</b>	
<b>connectable conductor cross-section solid</b>	
• minimum	1 mm <sup>2</sup>
• maximum	35 mm <sup>2</sup>
<b>connectable conductor cross-section stranded</b>	
• minimum	1 mm <sup>2</sup>
• maximum	35 mm <sup>2</sup>
<b>connectable conductor cross-section finely stranded with core end processing</b>	
• minimum	1 mm <sup>2</sup>
• maximum	35 mm <sup>2</sup>
<b>tightening torque with screw-type terminals</b>	
• minimum	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>	85 mm
<b>width</b>	72 mm
<b>depth</b>	72 mm
<b>installation depth</b>	70 mm
<b>number of modular width units</b>	4
<b>mounting position</b>	any
<b>Net Weight</b>	441 g
<b>weight with packaging</b>	521 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	40 °C
<b>ambient temperature during storage</b>	
• minimum	-40 °C
• maximum	70 °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	13.9 kg
global warming potential [CO <sub>2</sub> eq] during manufacturing	3.2 kg
global warming potential [CO <sub>2</sub> eq] during operation	10.8 kg
global warming potential [CO <sub>2</sub> eq] after end of life	-0.161 kg
<b>Approvals Certificates</b>	
<b>General Product Approval</b>	other



Miscellaneous



Confirmation



other	Dangerous goods	Environment
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[Miscellaneous](#)

[Miscellaneous](#)

[Transport Information](#)



[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,...)

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

#### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SU1646-6FP06>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SU1646-6FP06>

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

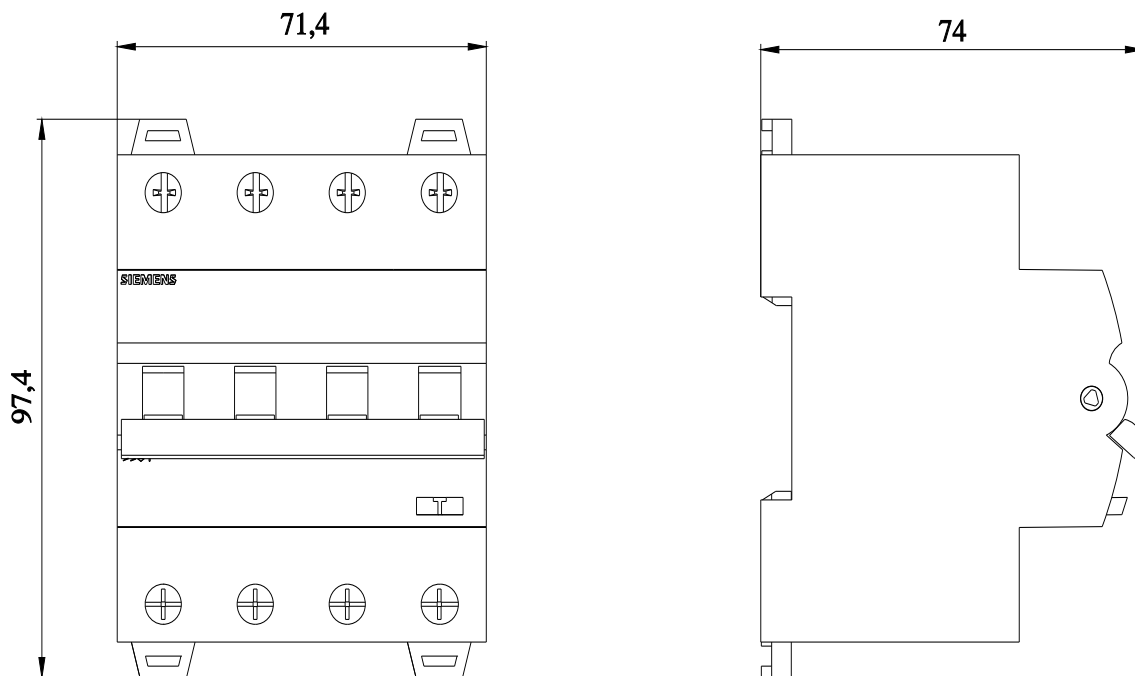
[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SU1646-6FP06](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SU1646-6FP06)

#### CAX-Online-Generator

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

#### Tender specifications

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



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