



RCBO, 6 kA, 4P 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	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	III
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) µs	0.25 kA
Supply voltage	
supply voltage	
• at AC rated value	400 V
• for testing equipment minimum	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
Switching capacity	
short-circuit current breaking capacity (Icn) according to EN 61009-1 rated value	6 kA
switching capacity current	
• according to EN 60898 rated value	6 kA
• according to IEC 60947-2 rated value	6 kA
rated residual switching capacity (IΔm) according to IEC 61009-1	4.5 kA
energy limitation class	3
Dissipation	
power loss [W]	
• maximum	2.1 W
operational current	
• at 30 °C rated value	10 A
• at 40 °C rated value	9.6 A

- at 45 °C rated value
- at 50 °C rated value
- at 55 °C rated value
- at 60 °C rated value
- at 70 °C rated value

9.4 A
9.1 A
8.9 A
8.6 A
8.2 A

Product details

product feature

- halogen-free

No

Connections

connectable conductor cross-section solid

- minimum
- maximum

1 mm²
35 mm²

connectable conductor cross-section stranded

- minimum
- maximum

1 mm²
35 mm²

connectable conductor cross-section finely stranded with core end processing

- minimum
- maximum

1 mm²
35 mm²

tightening torque with screw-type terminals

- minimum
- maximum

2 N·m
2 N·m

position of power supply cord

Either top or bottom

Mechanical Design

height

85 mm

width

72 mm

depth

72 mm

installation depth

70 mm

number of modular width units

4

mounting position

any

net weight

446 g

weight with packaging

520 g

Environmental conditions

influence of the surrounding temperature

Max. 95% humidity

ambient temperature during operation

- minimum
- maximum

-25 °C
40 °C

ambient temperature during storage

- minimum
- maximum

-40 °C
70 °C

number of test cycles for environmental testing according to IEC 60068-2-30

28

General Product Approval

Declaration of Conformity

other

[Confirmation](#)

[Miscellaneous](#)



[Miscellaneous](#)

other

Dangerous Good

Environment

[Confirmation](#)

[Miscellaneous](#)

[Transport Information](#)

[Environmental Confirmations](#)

Further information

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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?mlfb=5SU1646-6FP10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SU1646-6FP10>

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

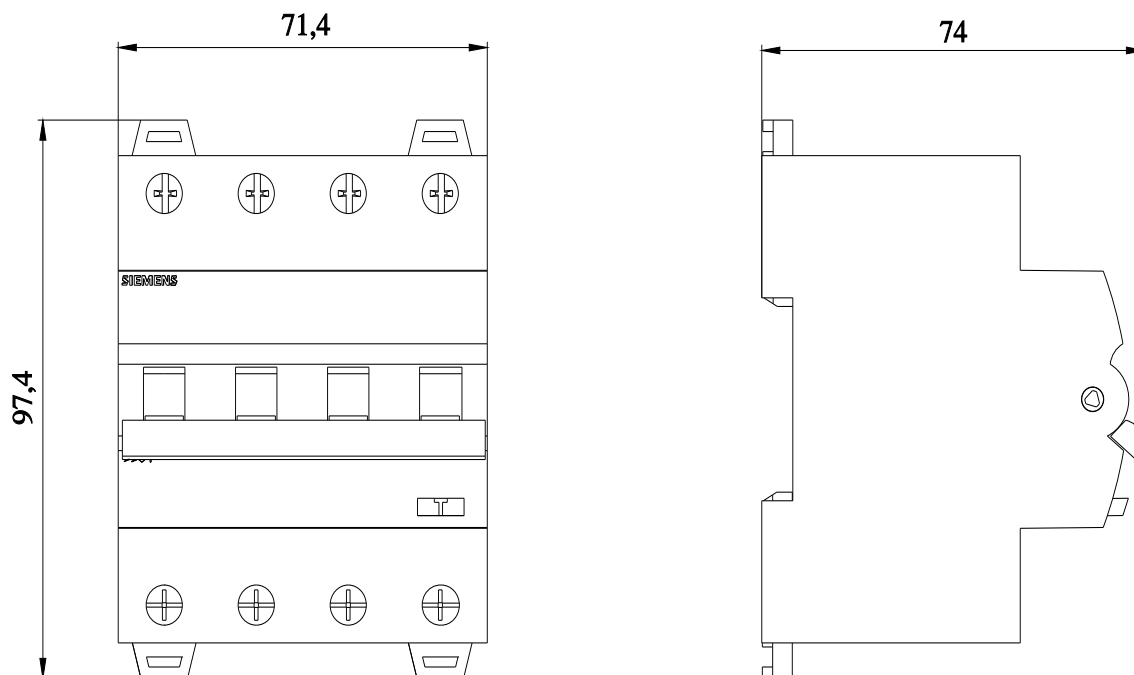
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SU1646-6FP10

CAX-Online-Generator

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

Tender specifications

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



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5/23/2023 

