



RCBO, 6 kA, 4P Type A, 300mA, C-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	C
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) μ s	0.25 kA
tripping fault current rated value	300 mA
<ul style="list-style-type: none"> ● operational current <ul style="list-style-type: none"> — at 30 °C rated value — at 40 °C rated value — 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 ● operational current at AC rated value 	6 A 5.7 A 5.5 A 5.3 A 5.1 A 5 A 4.7 A 6 A
residual current type	A
Supply voltage	
supply voltage <ul style="list-style-type: none"> ● at AC rated value ● for testing equipment minimum 	400 V 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
Breaking Capacity	

switching capacity current	
• according to EN 60898 rated value	6 kA
• according to IEC 60947-2 rated value	6 kA
short-circuit current breaking capacity (I_{cn}) according to EN 61009-1 rated value	6 kA
rated residual switching capacity (I_{Δm}) according to IEC 61009-1	4.5 kA
energy limitation class	3
Dissipation	
power loss [W]	
• maximum	1.1 W
Product details	
product feature touch protection	Yes
product component neutral conductor switching	Yes
product feature halogen-free	No
Connections	
connectable conductor cross-section solid	
• minimum	1 mm ²
• maximum	35 mm ²
connectable conductor cross-section stranded	
• minimum	1 mm ²
• maximum	35 mm ²
connectable conductor cross-section finely stranded with core end processing	
• minimum	1 mm ²
• maximum	35 mm ²
tightening torque with screw-type terminals	
• minimum	2 N·m
• maximum	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	442 g
weight with packaging	474 g
Environmental conditions	
influence of the surrounding temperature	Max. 95% humidity
ambient temperature during operation	
• minimum	-25 °C
• maximum	40 °C
ambient temperature during storage	
• minimum	-40 °C
• maximum	70 °C
number of test cycles for environmental testing according to IEC 60068-2-30	28
Environmental footprint	
Environmental Product Declaration (EPD)	Yes
global warming potential [CO ₂ eq] total	13.9 kg
global warming potential [CO ₂ eq] during manufacturing	3.2 kg
global warming potential [CO ₂ eq] during operation	10.8 kg
global warming potential [CO ₂ eq] after end of life	-0.161 kg
Approvals Certificates	
General Product Approval	other



Miscellaneous



Confirmation

other	Dangerous goods	Environment
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[Miscellaneous](#)

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[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=5SU1646-7FP06>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SU1646-7FP06>

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

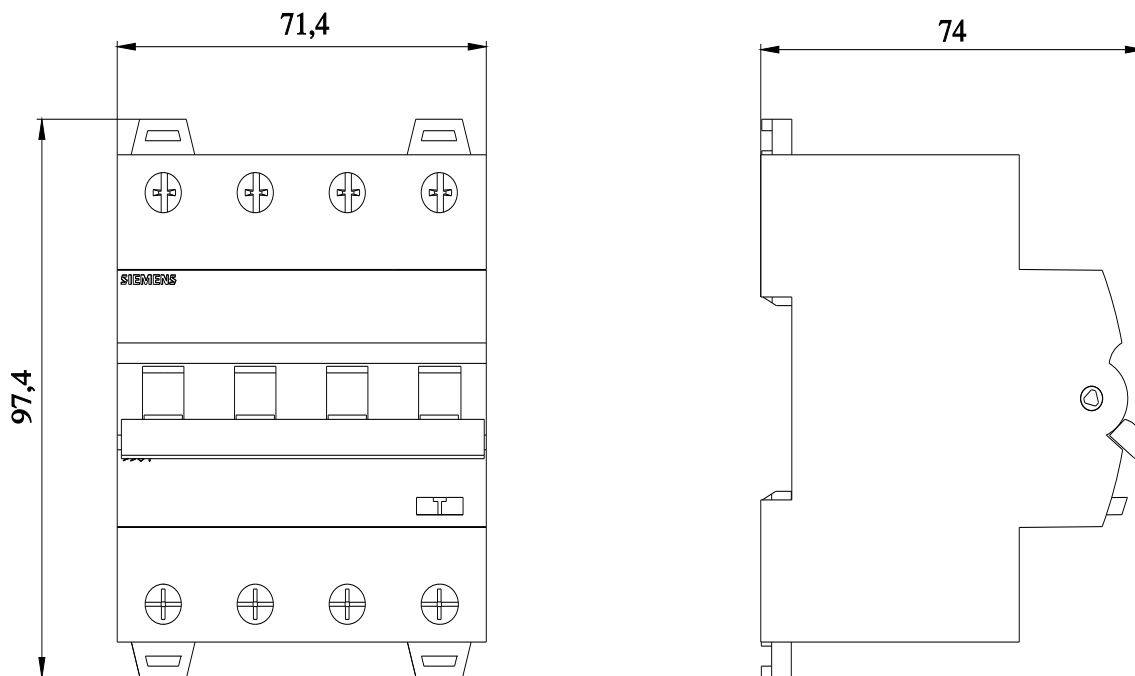
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SU1646-7FP06

CAX-Online-Generator

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

Tender specifications

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



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