

RCBO compact 1P+N 6 kA type A 300 mA B6



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
circuit-breaker / Design	5SV1
mechanical service life (switching cycles) / typical	10 000
overvoltage category	III
degree of pollution	2
Voltage	
surge current resistance / at (8/20) μs	1 kA
Supply voltage	
type of voltage	AC
operating current / at AC / rated value	6 A

supply voltage	
• at AC / rated value	230 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
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Switching capacity

breaking capacity short-circuit current (I _{cn}) / according to EN 61009-1 / rated value	6 kA
switching capacity current	
• acc. to EN 60898 / rated value	6 kA
• acc. to IEC 60947-2 / rated value	35 kA
rated residual switching capacity (I _{Δm}) / according to IEC 61009-1	4.5 kA
energy limiting class	3

Current

tripping residual current / rated value	300 mA
Tripping residual / rated value / derated current	
• at 30 Cel	6 A
• at 40 Cel	5.64 A
• at 45 Cel	5.46 A
• at 50 Cel	5.28 A
• at 55 Cel	5.04 A
• at 60 Cel	4.86 A
• at 65 Cel	4.62 A
• at 70 Cel	4.44 A
type of fault current	A

Product details

product function / neutral conductor switching	Yes
product feature / touch protection	Yes
product feature	
• halogen-free	Yes
• silicon-free	Yes

Connections

connectable conductor cross-section / solid	
• minimum	0.75 mm ²
• maximum	16 mm ²
connectable conductor cross-section / stranded	
• minimum	0.75 mm ²

• maximum	16 mm ²
connectable conductor cross-section / finely stranded / with core end processing	
• minimum	0.75 mm ²
• maximum	10 mm ²
tightening torque / with screw-type terminals	
• minimum	1.2 N·m
• maximum	2 N·m
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 width units	1
mounting position	any

Environmental conditions

influence of the surrounding temperature	Max. 95% humidity
ambient temperature	
• minimum	-25 °C
• maximum	45 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	75 °C
number of test cycles / for environmental testing / acc. to IEC 60068-2-30	28

Certificates

reference code	
• acc. to DIN EN 61346-2	F
• acc. to DIN EN 81346-2	F

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

[Miscellaneous](#)

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?mlfb=5SV1616-6KK06>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SV1616-6KK06>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV1616-6KK06

CAX-Online-Generator

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

Tender specifications

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







