



Residual current operated circuit breaker, 4-pole, Type B+, short-time delayed, In: 63 A, 300 mA, Un AC: 400 V

Model	
product brand name	SENTRON
product designation	RCCB
design of the product	Short-time delayed
General technical data	
number of poles	4
size of installation devices according to DIN 43880	1
mechanical service life (switching cycles) typical	10 000
short-circuit current of series fuse maximum permissible	100 A
short-circuit current rating	10 kA
switching function short-term delayed	Yes
overvoltage category	III
Supply voltage	
supply voltage for testing equipment minimum	70 V
value range of the supply voltage frequency	50/60 Hz
value range of the operating frequency	50/60 Hz
value range of the supply voltage at AC	70-440 V
Protection class	
protection class IP	IP20, if the distribution board is installed, with connected conductors
Switching capacity	
switching capacity current	
• according to IEC 61008-1 rated value	0.8 kA
Dissipation	
power loss [W]	
• for rated value of the current at AC in hot operating state per pole	5 W
• maximum	15 W
Current	
tripping fault current rated value	300 mA
operational current	
• at 40 °C rated value	63 A
• at 45 °C rated value	63 A
• at 50 °C rated value	63 A
• at 55 °C rated value	63 A
• at 60 °C rated value	63 A
• at 65 °C rated value	55 A
• at 70 °C rated value	48 A
• at AC rated value	63 A
residual current type	B+
let-through current permissible	7 000 A

I2t value permissible	60 000 A²·s
surge current resistance rated value	3 kA

Product details

product feature silicon-free	Yes
product extension installable supplementary devices	Yes

Connections

connectable conductor cross-section solid	
• minimum	0.75 mm²
• maximum	35 mm²
connectable conductor cross-section stranded	
• minimum	0.75 mm²
• maximum	35 mm²
tightening torque with screw-type terminals	
• minimum	2.5 N·m
• maximum	3 N·m
position of power supply cord	top or bottom (top for SIGRES function also in switched-off state)

Mechanical Design

height	90 mm
width	72 mm
depth	70 mm
installation depth	70 mm
number of modular width units	4
fastening method	DIN rail (REG)
mounting position	any
net weight	551 g

Environmental conditions

ambient temperature during operation	
• minimum	-25 °C
• maximum	45 °C
ambient temperature during storage	
• minimum permissible	-40 °C
• maximum permissible	75 °C
number of test cycles for environmental testing according to IEC 60068-2-30	28

General Product Approval

Declaration of Conformity

[Confirmation](#)



[Miscellaneous](#)



Test Certificates	other	Railway	Dangerous Good
-------------------	-------	---------	----------------

[Miscellaneous](#)

[Miscellaneous](#)

[Confirmation](#)

[Vibration and Shock](#)

[Confirmation](#)

[Transport Information](#)

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=5SV3646-4KK14>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SV3646-4KK14>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV3646-4KK14

CAX-Online-Generator

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

Tender specifications

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



