

Residual current operated circuit breaker, 4-pole, Type A, selective,
In: 40 A, 300 mA, Un AC: 400 V, with thermal overload protection



Model	
product brand name	SENTRON
product designation	RCCB
design of the product	Selective
product variations	With thermal overload protection
General technical data	
number of poles	4
size of installation devices / acc. to DIN 43880	1
protection against electrical shock	Finger and back-of-hand safe
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	No
overvoltage category	III
Supply voltage	
operating current / at AC / rated value	40 A
• supply voltage / at AC / rated value	230/400 V

• supply voltage / for testing equipment / minimum	100 V
supply voltage frequency	
• rated value	50 Hz
Protection class	
protection class IP	IP20, if the distribution board is installed, with connected conductors
Switching capacity	
switching capacity current	
• acc. to EN 60898 / rated value	0.8 kA
• 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	1.8 W
• maximum	5.4 W
Current	
tripping residual current / rated value	300 mA
type of fault current	A
let-through current / permissible	5 200 kA
I ² t value / permissible	58 000 A ² ·s
surge current resistance / rated value	5 kA
operating current	
• at 40 °C / rated value	40 A
• at 45 °C / rated value	40 A
• at 50 °C / rated value	40 A
• at 55 °C / rated value	40 A
• at 60 °C / rated value	40 A
• at 65 °C / rated value	40 A
• at 70 °C / rated value	40 A
Product details	
product feature / silicon-free	Yes
product extension / can be installed / supplementary devices	Yes
Connections	
connectable conductor cross-section / solid	
• minimum	0.75 mm ²
• maximum	35 mm ²
connectable conductor cross-section / stranded	
• minimum	0.75 mm ²

• maximum	35 mm ²
tightening torque / with screw-type terminals	
• minimum	2.5 N·m
• maximum	3 N·m
position / of power supply cord	top or bottom

Mechanical Design

height	90 mm
width	72 mm
depth	70 mm
installation depth	70 mm
number of width units	4
mounting type	DIN rail (REG)
mounting position	any
net weight	350 g

Environmental conditions

ambient temperature	
• 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 / 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	other	Railway
 ÖVE	 EG-Konf.	Miscellaneous Miscellaneous	Vibration and Shock



Railway

[Confirmation](#)

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=5SV3644-8LA>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SV3644-8LA>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV3644-8LA

CAX-Online-Generator

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

Tender specifications

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







