

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
Short-circuit current rating	10 kA
circuit-breaker / Design	5SV3
Mechanical service life (switching cycles) / typical	10 000
Switching function / short-term delayed	No
Overvoltage category	III
Supply voltage	
Current / at AC / rated value	40 A
• Supply voltage / at AC / rated value	230/400 V

- Supply voltage / for testing equipment / minimum
- rated value

100 V

50 Hz

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

1.8 W

Current

Tripping residual current / rated value

300 mA

Tripping residual / rated value / derated current

- at 40 Cel
- at 45 Cel
- at 50 Cel
- at 55 Cel
- at 60 Cel
- at 65 Cel
- at 70 Cel

40 A
40 A
40 A
40 A
40 A
40 A
40 A

Type of fault current

A

I_{2t}-value / permissible

58 000 A²·s

Surge current resistance / rated value

5 kA

Operating frequency

50/60Hz

Product details

Product feature / silicon-free

Yes

Product extension / can be installed / supplementary devices

Yes

Connections

Connectable conductor cross-section

- solid
- stranded

0.75 ... 35 mm²
0.75 ... 35 mm²

Tightening torque / with screw-type terminals

2.5 ... 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	-25 ... +45 °C
• during storage	-40 ... +75 °C

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



VDE

[Miscellaneous](#)



EG-Konf.

[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>







