

Residual current operated circuit breaker, 4-pole, Type B, selective,
In: 80 A, 300 mA, Un AC: 400 V



Model	
Product brand name	SETRON
Product designation	RCCB
Design of the product	Selective
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	
Supply voltage	
• at AC / rated value	400 V
• for testing equipment / minimum	195 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 / 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	7.5 W
Electricity	
Tripping residual current / rated value	300 mA
Tripping residual / rated value / derated current	
• at 40 Cel	80 A
• at 45 Cel	75.2 A
• at 50 Cel	66.4 A
• at 55 Cel	55.2 A
• at 60 Cel	43.2 A
• at 65 Cel	29.6 A
• at 70 Cel	12.8 A
Type of fault current	B
Current / at AC / rated value	80 A
I ² t-value / permissible	60 000 A ² ·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
Number	
Number of test cycles / for environmental testing / acc. to IEC 60068-2-30	28
Connections	
Connectable conductor cross-section / stranded	
• minimum	0.75 mm ²
• maximum	35 mm ²
Connectable conductor cross-section / solid	
• minimum	0.75 mm ²
• maximum	35 mm ²
Tightening torque / with screw-type terminals	

- minimum 2.5 N·m
- maximum 3 N·m

Mechanical Design

Height	90 mm
Width	72 mm
Depth	77 mm
Mounting position	any
Installation depth	70 mm
Number of width units	4
Mounting type	DIN rail (REG)
Net weight	570 g

Environmental conditions

Ambient temperature	
• minimum	-25 °C
• maximum	45 °C
• during storage / minimum permissible	-40 °C
• during storage / maximum permissible	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
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[Miscellaneous](#)



EG-Konf.

[Miscellaneous](#)

[Vibration and Shock](#)

[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=5SV3647-5>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SV3647-5>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV3647-5

CAX-Online-Generator

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

Tender specifications

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



