

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



Model	
Product brand name	SENTRON
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 / of series fuse / maximum permissible	100 A
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	
Operating current / at AC / rated value	80 A
Supply voltage	

<ul style="list-style-type: none"> • at AC / rated value 	400 V
<ul style="list-style-type: none"> • for testing equipment / minimum 	195 V
Supply voltage frequency	
<ul style="list-style-type: none"> • 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

Switching capacity current / according to IEC 61008-1 / rated value	0.8 kA
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Dissipation

Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	7.5 W
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Current

Tripping residual current / rated value	300 mA
Tripping residual / rated value / derated current	
<ul style="list-style-type: none"> • at 40 Cel 	80 A
<ul style="list-style-type: none"> • at 45 Cel 	80 A
<ul style="list-style-type: none"> • at 50 Cel 	80 A
<ul style="list-style-type: none"> • at 55 Cel 	72 A
<ul style="list-style-type: none"> • at 60 Cel 	64 A
<ul style="list-style-type: none"> • at 65 Cel 	56 A
<ul style="list-style-type: none"> • at 70 Cel 	48 A
Type of fault current	B+
I ² t-value / permissible	60 000 A ² ·s
Surge current resistance / rated value	5 kA

Product details

Product feature / silicon-free	Yes
Product extension / can be installed / supplementary devices	Yes

Connections

Connectable conductor cross-section / solid	
<ul style="list-style-type: none"> • minimum 	0.75 mm ²
<ul style="list-style-type: none"> • maximum 	35 mm ²
Connectable conductor cross-section / stranded	
<ul style="list-style-type: none"> • minimum 	0.75 mm ²
<ul style="list-style-type: none"> • maximum 	35 mm ²
Tightening torque / with screw-type terminals	
<ul style="list-style-type: none"> • minimum 	2.5 N·m
<ul style="list-style-type: none"> • maximum 	3 N·m

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	572 g

Environmental conditions

Ambient temperature	
• minimum	-25 °C
• maximum	45 °C
Ambient temperature / during storage	
• minimum permissible	-40 °C
• 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
 VDE	 EG-Konf.	Miscellaneous	Confirmation 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=5SV3647-5KK14>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SV3647-5KK14>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV3647-5KK14

CAX-Online-Generator

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

