

RCCB, 4-pole, type A, selective, In: 125 A, 300 mA, Un AC: 400 V



Model	
product brandname	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 rating	10 kA
circuit-breaker / Design	5SM3
Mechanical service life (switching cycles) / typical	10 000
Overvoltage category	III
Supply voltage	
Supply voltage	
• at AC / rated value	400 V
• for testing equipment / minimum	100 V
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	1.25 kA
Dissipation	
Power loss [W]	
• for rated value of the current / at AC / in hot operating state / per pole	8.9 W
• maximum	26.7 W
Electricity	
Tripping residual current / rated value	300 mA
rated current I_n / IEC, DIN/VDE / at 40 °C	125 A
Type of fault current	A
Current / at AC / rated value	125 A
I^2t-value / permissible	94 000 A ² ·s
Surge current resistance / rated value	5 kA
Operating frequency	50 Hz
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	2.5 mm ²
• maximum	50 mm ²
Connectable conductor cross-section / solid	
• minimum	2.5 mm ²
• maximum	50 mm ²
Tightening torque / with screw-type terminals	
• minimum	3 N·m
• maximum	3.5 N·m
Position / of power supply cord	top or bottom
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	538 g

Environmental conditions

Ambient temperature

- minimum -25 °C
- maximum 45 °C
- during storage / minimum permissible -40 °C
- during storage / maximum permissible 75 °C

Certificates

Equipment marking

- acc. to DIN EN 61346-2 F
- acc. to DIN EN 81346-2 F

General Product Approval	Declaration of Conformity	Test Certificates
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Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/5SM3645-8>

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

<http://support.automation.siemens.com/WW/view/en/5SM3645-8/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SM3645-8

CAX-Online-Generator

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

Tender specifications

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

