



Residual current operated circuit breaker, 4-pole, type A, In: 125 A, 500 mA, Un AC: 400 V

Model	
product brand name	SENTRON
product designation	RCCB
design of the product	Instantaneous
General technical data	
number of poles	4
size of installation devices / acc. to DIN 43880	1
mechanical service life (switching cycles) / typical	10 000
short-circuit current rating	10 kA
switching function / short-term delayed	No
overvoltage category	III
Supply voltage	
supply voltage	
• at AC / rated value	400 V
• for testing equipment / minimum	100 V
operating frequency	50 Hz
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	1.25 kA
• according to IEC 61008-1 / 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
Current	
tripping fault current / rated value	500 mA
operational current	
• at 40 °C / rated value	125 A
• at 45 °C / rated value	125 A
• at 50 °C / rated value	120 A
• at 55 °C / rated value	115 A
• at 60 °C / rated value	110 A
• at 65 °C / rated value	105 A

<ul style="list-style-type: none"> • at 70 °C / rated value 	100 A
<ul style="list-style-type: none"> • at AC / rated value 	125 A
residual current type	A
let-through current / permissible	8 000 kA
I2t value / permissible	94 000 A ² ·s
surge current resistance / rated value	1 kA

Product details

product feature / silicon-free	Yes
product extension / installable / supplementary devices	Yes

Connections

connectable conductor cross-section / solid	
<ul style="list-style-type: none"> • minimum 	2.5 mm ²
<ul style="list-style-type: none"> • maximum 	50 mm ²
connectable conductor cross-section / stranded	
<ul style="list-style-type: none"> • minimum 	2.5 mm ²
<ul style="list-style-type: none"> • maximum 	50 mm ²
tightening torque / with screw-type terminals	
<ul style="list-style-type: none"> • minimum 	3 N·m
<ul style="list-style-type: none"> • maximum 	4 N·m
position / of power supply cord	top or bottom

Mechanical Design

height	90 mm
width	72 mm
depth	77 mm
installation depth	70 mm
number of modular width units	4
fastening method	DIN rail (REG)
mounting position	any
net weight	523 g

Environmental conditions

ambient temperature / during operation	
<ul style="list-style-type: none"> • minimum 	-25 °C
<ul style="list-style-type: none"> • maximum 	45 °C
ambient temperature / during storage	
<ul style="list-style-type: none"> • minimum permissible 	-40 °C
<ul style="list-style-type: none"> • maximum permissible 	75 °C
number of test cycles / for environmental testing / acc. to IEC 60068-2-30	28

General Product Approval	Declaration of Conformity	Test Certificates	other	Dangerous Good
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[Miscellaneous](#)



EG-Konf.

[Miscellaneous](#)

[Miscellaneous](#)

[Transport Information](#)

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=5SM3745-6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SM3745-6>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SM3745-6

CAx-Online-Generator

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

Tender specifications

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

