



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

Model	
product brand name	SENTRON
product designation	RCCB
design of the product	Instantaneous
product type designation	5SM3
General technical data	
number of poles	4
size of installation devices according to DIN 43880	1
mechanical service life (operating cycles) typical	10 000
short-circuit current rating	10 kA
switching function short-term delayed	No
overvoltage category	III
tripping fault current rated value	500 mA
Supply voltage	
supply voltage for testing equipment minimum	195 V
value range of the supply voltage frequency	50 Hz
value range of the operating frequency	50 Hz
value range of the supply voltage at AC	400 V
Protection class	
protection class IP	IP20, if the distribution board is installed, with connected conductors
Breaking Capacity	
switching capacity current	
• according 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
Product details	
product feature silicon-free	Yes
product extension installable supplementary devices	Yes
Connections	
connectable conductor cross-section solid	
• minimum	2.5 mm ²
• maximum	50 mm ²
connectable conductor cross-section stranded	
• minimum	2.5 mm ²
• 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	509 g

Environmental conditions

ambient temperature during operation <ul style="list-style-type: none"> • minimum • maximum 	-5 °C 45 °C
ambient temperature during storage minimum	-40 °C
number of test cycles for environmental testing according to IEC 60068-2-30	28

Approvals Certificates

General Product Approval	other
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[Miscellaneous](#)

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Dangerous goods	Environment
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[Transport Information](#)

[Environmental Con-
firmations](#)

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Further information

Information on the packaging
<https://support.industry.siemens.com/cs/ww/en/view/109813875>
 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=5SM3745-0>
 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/5SM3745-0>
 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SM3745-0
 CAx-Online-Generator
<http://www.siemens.com/cax>
 Tender specifications
<http://www.siemens.com/specifications>

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