



Residual current operated circuit breaker, 4-pole, type B, short-time delayed, In: 63 A, 300 mA, Un AC: 400 V

Model	
product brand name	SENTRON
product designation	Residual current operated circuit breaker
design of the product	Short-time delayed
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	Yes
tripping fault current rated value	300 mA
let-through current permissible	7 500 A
I _{2t} value permissible	70 000 A ² ·s
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	50/60 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	
<ul style="list-style-type: none"> according to EN 60898 rated value 	0.8 kA
<ul style="list-style-type: none"> according to IEC 61008-1 rated value 	0.8 kA
Dissipation	
power loss [W]	
<ul style="list-style-type: none"> for rated value of the current at AC in hot operating state per pole 	2.6 W
<ul style="list-style-type: none"> maximum 	7.8 W
Appearance	
RAL color number	7 035
RAL color number (similar)	7 035
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 	1.5 mm ²

<ul style="list-style-type: none"> • maximum 	25 mm ²
connectable conductor cross-section stranded	
<ul style="list-style-type: none"> • minimum 	1.5 mm ²
<ul style="list-style-type: none"> • maximum 	25 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
position of power supply cord	Top or bottom (bottom for SIGRES function also in switched-off state)

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	548 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 minimum	-40 °C
number of test cycles for environmental testing according to IEC 60068-2-30	28

Approvals Certificates

Environment	General Product Approval
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[Environmental Confirmations](#)

[Environmental Confirmations](#)

[Miscellaneous](#)



[Confirmation](#)



EMV	other
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[Confirmation](#)

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SM3646-4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SM3646-4>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SM3646-4

CAX-Online-Generator

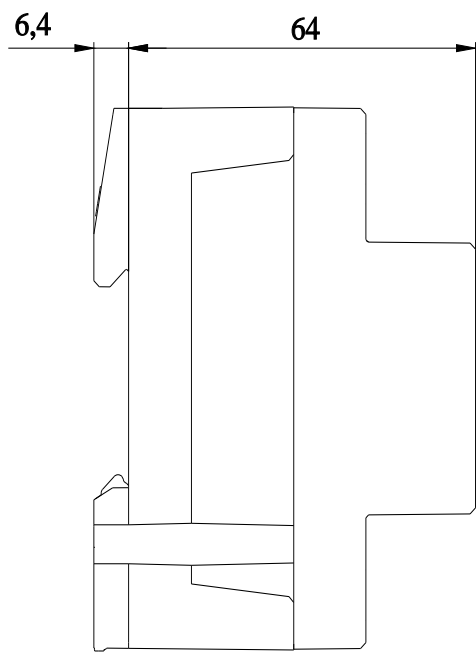
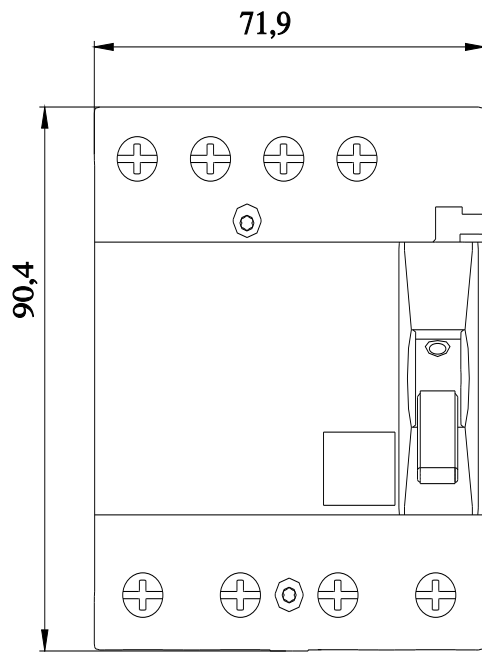
<https://www.siemens.com/cax>

Tender specifications

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

Characteristic curves

https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP='HAUPT'></mmp_prod_no>



last modified:

10/9/2025 