

Siemens
EcoTech



Residual current operated circuit breaker, 4-pole, type A, In: 100 A, 500 mA, Un AC: 400 V

Model	
product brand name	SENTRON
product designation	Residual current operated circuit breaker
design of the product	Instantaneous
product type designation	5SV3
General technical data	
number of poles	4
size of installation devices according to DIN 43880	1
mechanical service life (operating cycles) typical	5 000
short-circuit current of series fuse maximum permissible	125 A
short-circuit current rating	10 kA
switching function short-term delayed	No
degree of pollution	2
insulation voltage (Ui) rated value	2 000 V
tripping fault current rated value	500 mA
let-through current permissible	6 400 A
I ² t value permissible	60 000 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 Hz
value range of the supply voltage at AC	230/400 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
grid spacing	60 mm
Dissipation	
power loss [W]	
• for rated value of the current at AC in hot operating state per pole	7 W
• maximum	20 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	No
Connections	
connectable conductor cross-section solid	
• minimum	1 mm ²
• maximum	50 mm ²
connectable conductor cross-section stranded	
• minimum	1 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	85 mm
width	71 mm
depth	73 mm
installation depth	70 mm
number of modular width units	4
fastening method	DIN rail
mounting position	any
Net Weight	370 g
Environmental conditions	
ambient temperature during operation	
• minimum	-25 °C
• maximum	40 °C
ambient temperature during storage minimum	-35 °C
number of test cycles for environmental testing according to IEC 60068-2-30	28
Environmental footprint	
Environmental Product Declaration (EPD)	Yes
global warming potential [CO2 eq] total	63.8 kg
global warming potential [CO2 eq] during manufacturing	1.98 kg
global warming potential [CO2 eq] during operation	61.7 kg
global warming potential [CO2 eq] after end of life	0.106 kg
Approvals Certificates	

General Product Approval	Test Certificates	other
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[Confirmation](#)

[Miscellaneous](#)



[Miscellaneous](#)

[Confirmation](#)

other	Railway	Environment
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[Special Test Certificate](#)

[Environmental Confirmations](#)



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[Environmental Confirmations](#)

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=5SV3748-6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SV3748-6>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV3748-6

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>



