

Siemens  
EcoTech



Residual current operated circuit breaker, 4-pole, type A, In: 100 A, 300 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	300 mA
let-through current permissible	6 400 A
I <sup>2</sup> t value permissible	60 000 A <sup>2</sup> ·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
<b>Product details</b>	
product feature silicon-free	Yes
product extension installable supplementary devices	No
<b>Connections</b>	
connectable conductor cross-section solid	
• minimum	1 mm <sup>2</sup>
• maximum	50 mm <sup>2</sup>
connectable conductor cross-section stranded	
• minimum	1 mm <sup>2</sup>
• maximum	50 mm <sup>2</sup>
tightening torque with screw-type terminals	
• minimum	3 N·m
• maximum	3.5 N·m
position of power supply cord	top or bottom
<b>Mechanical Design</b>	
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	372 g
<b>Environmental conditions</b>	
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
<b>Environmental footprint</b>	
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
<b>Approvals Certificates</b>	

General Product Approval	Test Certificates	other
--------------------------	-------------------	-------



[Confirmation](#)

[Miscellaneous](#)



[Miscellaneous](#)

[Confirmation](#)

other	Railway	Environment
-------	---------	-------------



[Special Test Certificate](#)

[Environmental Confirmations](#)



[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=5SV3648-6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SV3648-6>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SV3648-6](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV3648-6)

CAx-Online-Generator

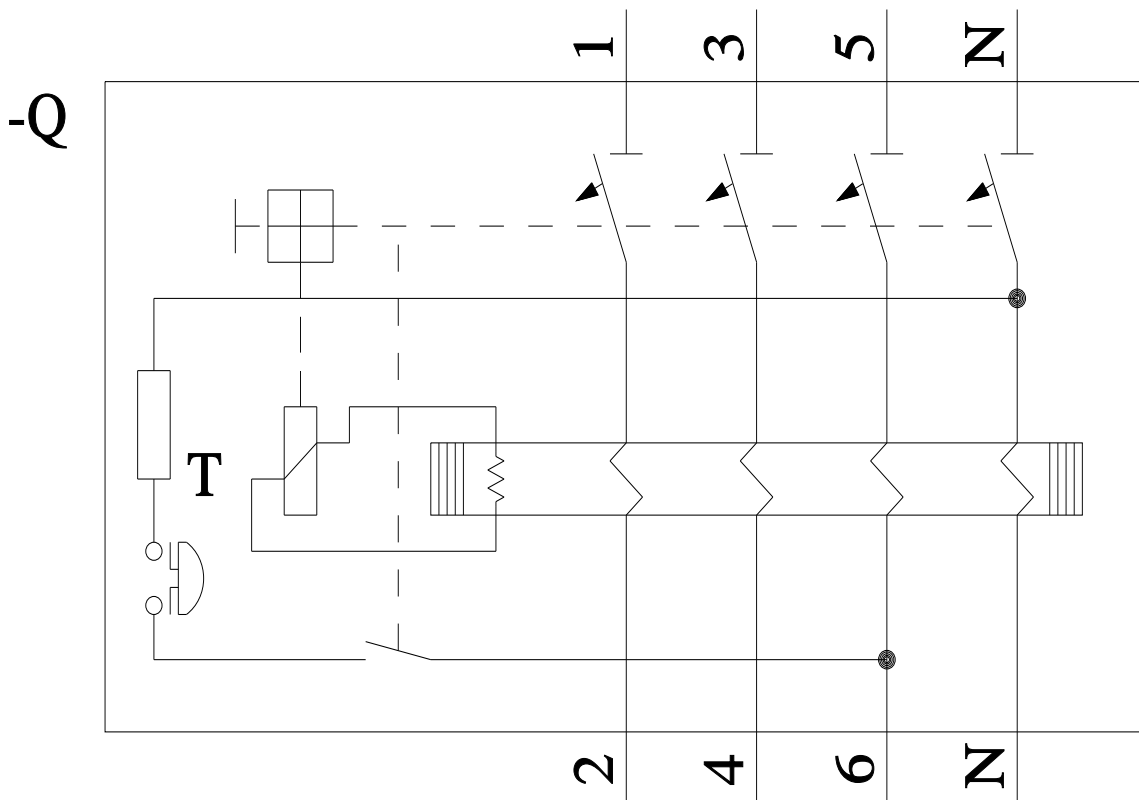
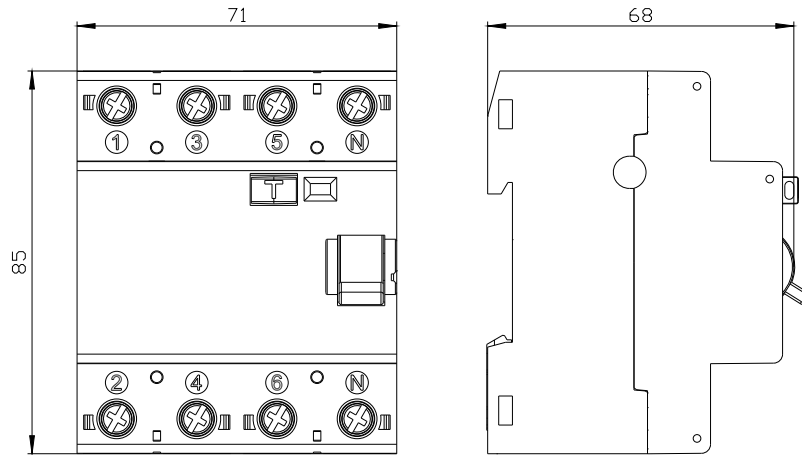
<https://www.siemens.com/cax>

Tender specifications

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

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP='HAUPT'></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP='HAUPT'></mmp_prod_no>)





last modified:

10/9/2025 

