



residual current operated circuit breaker, 2-pole, type AC, In: 25 A, 30 mA, Un AC: 230 V,

Model	
product brand name	SENTRON
product designation	Residual current operated circuit breaker
design of the product	Instantaneous
product type designation	5SV5
General technical data	
number of poles	2
size of installation devices according to DIN 43880	1
mechanical service life (operating cycles) typical	4 000
short-circuit current of series fuse maximum permissible	63 A
short-circuit current rating	6 kA
switching function short-term delayed	No
degree of pollution	2
insulation voltage (Ui) rated value	2 000 V
tripping fault current rated value	30 mA
let-through current permissible	5 200 A
I2t value permissible	58 000 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 V
Protection class	
protection class IP	IP20, if the distribution board is installed, with connected conductors
Breaking Capacity	
switching capacity current	
• according to IEC 61008-1 rated value	0.5 kA
grid spacing	60 mm
Dissipation	
power loss [W]	
• for rated value of the current at AC in hot operating state per pole	1 W
• maximum	2 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	0.75 mm <sup>2</sup>
• maximum	35 mm <sup>2</sup>
connectable conductor cross-section stranded	
• minimum	0.75 mm <sup>2</sup>
• maximum	35 mm <sup>2</sup>
tightening torque with screw-type terminals	

• minimum	2.5 N·m
• maximum	3 N·m
<b>position of power supply cord</b>	top or bottom
<b>Mechanical Design</b>	
<b>height</b>	90 mm
<b>width</b>	36 mm
<b>depth</b>	70 mm
<b>installation depth</b>	70 mm
<b>number of modular width units</b>	2
<b>fastening method</b>	DIN rail (REG)
<b>mounting position</b>	any
<b>Net Weight</b>	197 g
<b>Environmental conditions</b>	
<b>ambient temperature during operation</b>	
• minimum	-25 °C
• maximum	45 °C
<b>ambient temperature during storage minimum</b>	-40 °C
<b>number of test cycles for environmental testing according to IEC 60068-2-30</b>	28

<b>Approvals Certificates</b>	
<b>Environment</b>	<b>General Product Approval</b>

[Environmental Confirmations](#)



[Environmental Confirmations](#)

[Miscellaneous](#)

[Miscellaneous](#)



<b>General Product Approval</b>	<b>other</b>	<b>Dangerous goods</b>
---------------------------------	--------------	------------------------

[Confirmation](#)



[Confirmation](#)

[Transport Information](#)

**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=5SV5312-0FC>
- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**  
<https://support.industry.siemens.com/cs/ww/en/ps/5SV5312-0FC>
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**  
[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SV5312-0FC](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV5312-0FC)
- 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=)

last modified:

10/9/2025

