



RCBO, 10 kA, 1P+N, Type AC, 300 mA, C-Char, In: 25 A, Un AC: 230 V, pigtail 600 mm, solid N

Model	
product brand name	SENTRON
product designation	RCD-operated circuit breaker
design of the product	Instantaneous
General technical data	
number of poles	2
number of poles with protection	1
design of pole	1P+N
tripping characteristic class	C
mechanical service life (operating cycles) typical	10 000
overvoltage category	3
degree of pollution	2
Voltage	
type of voltage of the operating voltage	AC
insulation voltage (Ui) rated value	264 V
surge voltage resistance rated value	4 000 V
surge current resistance at (8/20) $\mu$ s	1 kA
tripping fault current rated value	300 mA
<ul style="list-style-type: none"> <li>• operational current                             <ul style="list-style-type: none"> <li>— at 30 °C rated value</li> <li>— at 40 °C rated value</li> <li>— at 45 °C rated value</li> <li>— at 50 °C rated value</li> <li>— at 55 °C rated value</li> </ul> </li> <li>• operational current at AC rated value</li> </ul>	25 A 23.5 A 22.75 A 21.75 A 20.25 A 25 A
residual current type	AC
Supply voltage	
supply voltage <ul style="list-style-type: none"> <li>• at AC rated value</li> <li>• for testing equipment minimum</li> </ul>	230/240 V 125 V
operating frequency	50/60 Hz
supply voltage frequency rated value	50 Hz
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"> <li>• according to EN 60898 rated value</li> <li>• according to IEC 60947-2 rated value</li> </ul>	10 kA 10 kA

short-circuit current breaking capacity (I <sub>cn</sub> ) according to EN 61009-1 rated value	10 kA
rated residual switching capacity (I <sub>Δm</sub> ) according to IEC 61009-1	10 kA
energy limitation class	3
<b>Dissipation</b>	
<b>power loss [W]</b>	
• for rated value of the current at AC in hot operating state per pole	0.75 W
• maximum	0.8 W
<b>Product details</b>	
product feature touch protection	Yes
product component neutral conductor switching	No
product feature halogen-free	Yes
product feature silicon-free	Yes
<b>Product function</b>	
product function	voltage dependent RCD function
<b>Connections</b>	
<b>connectable conductor cross-section using the upper clamping point without core end processing</b>	
• minimum	0.75 mm <sup>2</sup>
• maximum	16 mm <sup>2</sup>
<b>connectable conductor cross-section solid</b>	
• minimum	0.75 mm <sup>2</sup>
• maximum	35 mm <sup>2</sup>
<b>connectable conductor cross-section stranded</b>	
• minimum	0.75 mm <sup>2</sup>
• maximum	35 mm <sup>2</sup>
<b>connectable conductor cross-section finely stranded with core end processing</b>	
• minimum	0.75 mm <sup>2</sup>
• maximum	25 mm <sup>2</sup>
<b>tightening torque with screw-type terminals</b>	
• minimum	1.2 N·m
• maximum	2 N·m
position of power supply cord	Either top or bottom
<b>Mechanical Design</b>	
height	125 mm
width	18 mm
depth	77 mm
installation depth	70 mm
number of modular width units	1
mounting position	any
Net Weight	250 g
<b>Environmental conditions</b>	
influence of the surrounding temperature	Max. 95% humidity
<b>ambient temperature during operation</b>	
• minimum	-25 °C
• maximum	45 °C
<b>ambient temperature during storage</b>	
• minimum	-40 °C
• maximum	75 °C
number of test cycles for environmental testing according to IEC 60068-2-30	28
<b>Approvals Certificates</b>	
Environment	General Product Approval

[Environmental Con-  
firmations](#)

[Environmental Con-  
firmations](#)

[Miscellaneous](#)

**EAC**

[Confirmation](#)

**CE**  
EG-Konf.

General Product Ap-  
proval

EMV

other

**UK  
CA**



[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=5SU9604-1KK25>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SU9604-1KK25>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SU9604-1KK25](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SU9604-1KK25)

**CAX-Online-Generator**

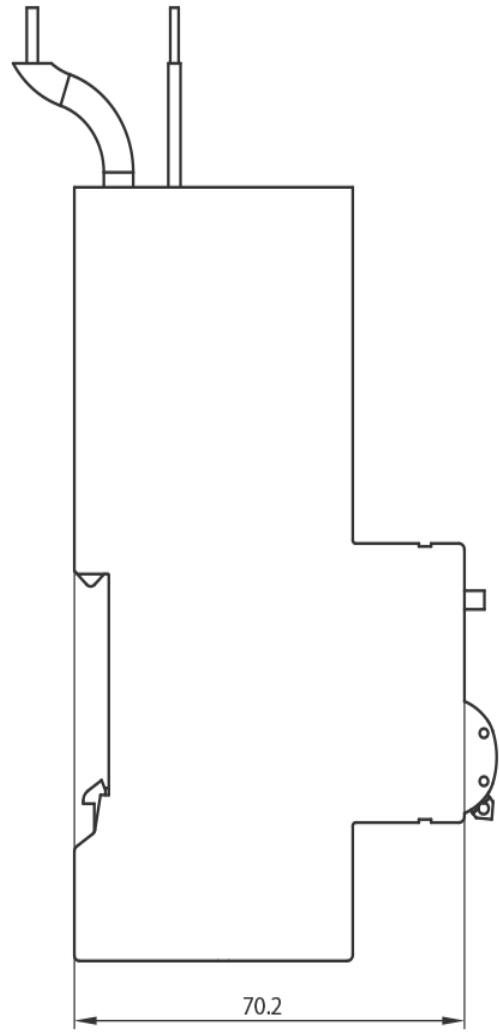
<https://www.siemens.com/cax>

**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=)



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