

RCBO, 6 kA, 1P+N, Type AC, 300 mA, C-Char, In: 20 A, Un AC: 230 V



## Model

Product brand name	SENTRON
Product designation	RCBO
Design of the product	Instantaneous

## General technical data

Number of poles	2
Number of poles / Note	1P+N
Number of poles / with protection	1
Tripping characteristic class	C
circuit-breaker / Design	5SU1
Mechanical service life (switching cycles) / typical	10 000
Overvoltage category	III
Degree of pollution	2

## Voltage

Surge current resistance / at (8/20) $\mu$ s	1 kA
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## Supply voltage

Type of voltage	AC
Operating current / at AC / rated value	20 A

Supply voltage	
<ul style="list-style-type: none"> <li>• at AC / rated value</li> <li>• for testing equipment / minimum</li> </ul>	230/240 V 100 V
Operating frequency	50 Hz
Supply voltage frequency / rated value	50 Hz

<b>Protection class</b>	
Protection class IP	IP20, if the distribution board is installed, with connected conductors

<b>Switching capacity</b>	
Breaking capacity short-circuit current (I <sub>cn</sub> ) / according to EN 61009-1 / rated value	6 kA
Switching capacity current	
<ul style="list-style-type: none"> <li>• acc. to EN 60898 / rated value</li> <li>• acc. to IEC 60947-2 / rated value</li> </ul>	6 kA 15 kA
Rated residual switching capacity (I <sub>Δm</sub> ) / according to IEC 61009-1	6 kA
Energy limiting class	3

<b>Dissipation</b>	
Power loss [W]	
<ul style="list-style-type: none"> <li>• for rated value of the current / at AC / in hot operating state / per pole</li> <li>• maximum</li> </ul>	3.3 W 6.6 W

<b>Current</b>	
Tripping residual current / rated value	300 mA
Tripping residual / rated value / derated current	
<ul style="list-style-type: none"> <li>• at 30 Cel</li> <li>• at 40 Cel</li> <li>• at 45 Cel</li> <li>• at 50 Cel</li> <li>• at 55 Cel</li> <li>• at 60 Cel</li> <li>• at 65 Cel</li> <li>• at 70 Cel</li> </ul>	20 A 18.8 A 18.2 A 17.4 A 16.2 A 16.2 A 15.4 A 14.6 A
Type of fault current	AC

<b>Product details</b>	
Product function / neutral conductor switching	Yes
Product feature / Touch protection	Yes
Product feature	
<ul style="list-style-type: none"> <li>• halogen-free</li> <li>• silicon-free</li> </ul>	Yes Yes

## 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>
Connectable conductor cross-section / finely stranded / with core end processing	
• minimum	0.75 mm <sup>2</sup>
• maximum	25 mm <sup>2</sup>
Tightening torque / with screw-type terminals	
• minimum	2.5 N·m
• maximum	3 N·m
Position / of power supply cord	Either top or bottom

## Mechanical Design

Height	90 mm
Width	36 mm
Depth	77 mm
Installation depth	70 mm
Number of width units	2
Mounting position	any
Net weight	285 g

## Environmental conditions

Influence of the surrounding temperature	Max. 95% humidity
Ambient temperature	
• minimum	-25 °C
• maximum	55 °C
Ambient temperature / during storage	
• minimum	-40 °C
• maximum	75 °C
Number of test cycles / for environmental testing / acc. to IEC 60068-2-30	28

## Certificates

Reference code	
• acc. to DIN EN 61346-2	F
• acc. to DIN EN 81346-2	F

General Product Approval	Declaration of Conformity	Test Certificates
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CCC



IMQ

[Miscellaneous](#)



RCM



EG-Konf.

[Miscellaneous](#)

other	Railway
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[Miscellaneous](#)

[Vibration and Shock](#)

[Confirmation](#)

## Further information

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

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

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SU1656-1KK20>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SU1656-1KK20>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SU1656-1KK20](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SU1656-1KK20)

**CAX-Online-Generator**

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

**Tender specifications**

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



