

RCBO, 6 kA, 1P+N, Type AC, 30 mA, C-Char, In: 25 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
Supply voltage	
type of voltage	AC
Operating current / at AC / rated value	25 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 195 V
Operating frequency	50 Hz
Supply voltage frequency / rated value	50 Hz

Protection class	
Protection class IP	IP20, if the distribution board is installed, with connected conductors

Switching capacity	
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

Dissipation	
<ul style="list-style-type: none"> <li>• Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole</li> <li>• power loss [W] / maximum</li> </ul>	5.1 W 10.2 W

Current	
Tripping residual current / rated value	30 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>	25 A 23.5 A 22.75 A 21.75 A 20.25 A 20.25 A 19.25 A 18.25 A
Type of fault current	AC

Product details	
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	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	0.75 mm <sup>2</sup> 35 mm <sup>2</sup>
Connectable conductor cross-section / stranded	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	0.75 mm <sup>2</sup> 35 mm <sup>2</sup>
connectable conductor cross-section / finely stranded / with core end processing	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	0.75 mm <sup>2</sup> 25 mm <sup>2</sup>
Tightening torque / with screw-type terminals	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	2.5 N·m 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	284 g

### Environmental conditions

influence of the surrounding temperature	Max. 95% humidity
Ambient temperature	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	-25 °C 55 °C
Ambient temperature / during storage	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	-40 °C 75 °C
Number of test cycles / for environmental testing / acc. to IEC 60068-2-30	28

### Certificates

<ul style="list-style-type: none"> <li>• reference code / acc. to DIN EN 61346-2</li> <li>• Reference code / acc. to DIN EN 81346-2</li> </ul>	F F
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General Product Approval		Declaration of Conformity	Test Certificates
 CCC	 IMQ	 RCM	 EG-Konf.
<a href="#">Miscellaneous</a>		<a href="#">Special Test Certificate</a>	

Test Certificates	other	Railway
<a href="#">Miscellaneous</a>	<a href="#">Miscellaneous</a>	<a href="#">Vibration and Shock</a> <a href="#">Confirmation</a>

**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=5SU1356-1KK25>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SU1356-1KK25>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SU1356-1KK25](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SU1356-1KK25)

**CAX-Online-Generator**

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

**Tender specifications**

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



