



RCBO, 6 kA, 1P+N, type A, 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 with protection   | 1   |
| design of pole  | 1P+N  |
| tripping characteristic class   | C   |
| mechanical service life (operating cycles) typical                                | 10 000  |
| overvoltage category  | III   |
| 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) µs   | 1 kA  |
| tripping fault current rated value  | 300 mA  |
| operational current   |   |
| • at 30 °C rated value  | 20 A  |
| • at 40 °C rated value  | 18.8 A  |
| • at 45 °C rated value  | 18.2 A  |
| • at 50 °C rated value  | 17.4 A  |
| • at 55 °C rated value  | 16.2 A  |
| • at 60 °C rated value  | 16.2 A  |
| • at 65 °C rated value  | 15.4 A  |
| • at 70 °C rated value  | 14.6 A  |
| • at AC rated value   | 20 A  |
| residual current type   | A   |
| Supply voltage  |   |
| supply voltage  |   |
| • at AC rated value   | 230/240 V   |
| • for testing equipment minimum   | 100 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 |
| Breaking Capacity   |   |
| short-circuit current breaking capacity (Icn) according to EN 61009-1 rated value | 6 kA  |

|   |       |
|---|-------|
| switching capacity current  |       |
| • according to EN 60898 rated value   | 6 kA  |
| • according to IEC 60947-2 rated value  | 15 kA |
| rated residual switching capacity (I <sub>Δm</sub> ) according to IEC 61009-1 | 6 kA  |
| energy limitation class   | 3     |

#### Dissipation

|                |       |
|----------------|-------|
| power loss [W] |       |
| • maximum      | 3.3 W |

#### Product details

|                 |     |
|-----------------|-----|
| product feature |     |
| • halogen-free  | Yes |
| • silicon-free  | 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 modular width units | 2     |
| mounting position             | any   |
| net weight                    | 276 g |
| weight with packaging         | 276 g |

#### Environmental conditions

|   |                   |
|---|-------------------|
| influence of the surrounding temperature                                    | Max. 95% humidity |
| ambient temperature during operation  |                   |
| • minimum   | -25 °C            |
| • maximum   | 55 °C             |
| ambient temperature during storage  |                   |
| • minimum   | -40 °C            |
| • maximum   | 75 °C             |
| number of test cycles for environmental testing according to IEC 60068-2-30 | 28                |

#### Approvals Certificates

##### General Product Approval



[Confirmation](#)



##### General Product Approval

##### EMV

##### Test Certificates

##### Marine / Shipping

##### other

[Miscellaneous](#)



[Miscellaneous](#)



[Miscellaneous](#)

| other                        |                               | Railway                      | Dangerous Good                        | Environment                                       |
|------------------------------|-------------------------------|------------------------------|---------------------------------------|---|
| <a href="#">Confirmation</a> | <a href="#">Miscellaneous</a> | <a href="#">Confirmation</a> | <a href="#">Transport Information</a> | <a href="#">Environmental Con-<br/>firmations</a> |

#### Further information

**Siemens has decided to exit the Russian market (see here).**

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

**Siemens is working on the renewal of the current EAC certificates.**

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

**Information on the packaging**

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

**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=5SU1656-7KK20>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SU1656-7KK20>

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

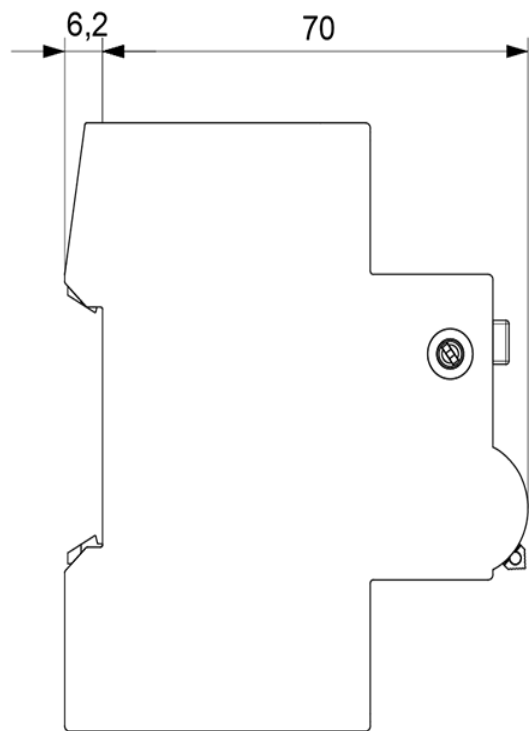
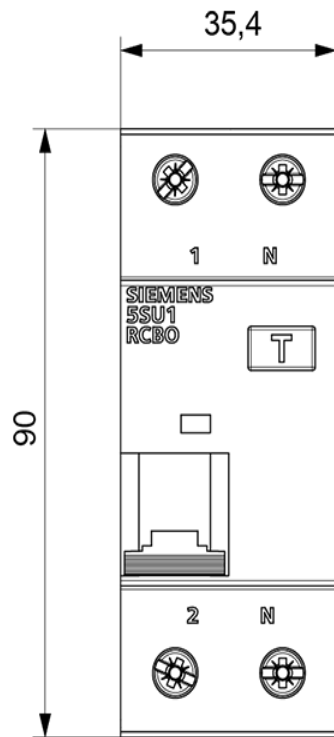
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SU1656-7KK20](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SU1656-7KK20)

**CAx-Online-Generator**

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

**Tender specifications**

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



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