



RCBO, 6 kA, 1P+N, Type AC, 300 mA, B char., In: 16 A, Un AC: 230 V

Figure similar

| 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  | B  |
| 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> <li>— at 60 °C rated value</li> <li>— at 65 °C rated value</li> <li>— at 70 °C rated value</li> </ul> </li> <li>• operational current at AC rated value</li> </ul> | <ul style="list-style-type: none"> <li>16 A</li> <li>15.2 A</li> <li>14.88 A</li> <li>14.4 A</li> <li>13.92 A</li> <li>13.6 A</li> <li>12.96 A</li> <li>12.32 A</li> <li>16 A</li> </ul> |
| 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>  | <ul style="list-style-type: none"> <li>230/240 V</li> <li>100 V</li> </ul>   |
| 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   |       |
|---|-------|
| <b>switching capacity current</b>   |       |
| • according to EN 60898 rated value   | 6 kA  |
| • according to IEC 60947-2 rated value  | 15 kA |
| <b>short-circuit current breaking capacity (I<sub>cn</sub>) according to EN 61009-1 rated value</b> | 6 kA  |
| <b>rated residual switching capacity (I<sub>Δm</sub>) according to IEC 61009-1</b>                  | 6 kA  |
| <b>energy limitation class</b>  | 3     |

| Dissipation           |     |
|-----------------------|-----|
| <b>power loss [W]</b> |     |
| • maximum             | 3 W |

| Product details                               |     |
|---|-----|
| <b>product feature touch protection</b>       | Yes |
| product component neutral conductor switching | Yes |
| <b>product feature halogen-free</b>           | Yes |
| <b>product feature silicon-free</b>           | Yes |

| Connections   |                      |
|---|----------------------|
| <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   | 2.5 N·m              |
| • maximum   | 3 N·m                |
| <b>position of power supply cord</b>  | Either top or bottom |

| Mechanical Design                    |       |
|--------------------------------------|-------|
| <b>height</b>                        | 90 mm |
| <b>width</b>                         | 36 mm |
| <b>depth</b>                         | 77 mm |
| <b>installation depth</b>            | 70 mm |
| <b>number of modular width units</b> | 2     |
| <b>mounting position</b>             | any   |
| <b>Net Weight</b>                    | 268 g |

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

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

[Environmental Con-  
firmations](#)

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|                          |     |                   |
|--------------------------|-----|-------------------|
| General Product Approval | EMV | Test Certificates |
|--------------------------|-----|-------------------|



[Confirmation](#)



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#### 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=5SU1656-0KK16>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SU1656-0KK16>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SU1656-0KK16](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SU1656-0KK16)

**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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