




RCBO, Icn: 6 kA, 4P, Type AC, 30 mA, C-Char, In: 40 A, Un AC: 230 V



| Model  |   |
|--|---|
| product brand name   | SENTRON   |
| product designation  | RCD-operated circuit breaker  |
| design of the product  | Instantaneous   |
| General technical data   |   |
| number of poles  | 4   |
| number of poles with protection  | 4   |
| design of pole   | 4P  |
| 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  | 440 V   |
| surge voltage resistance rated value   | 4 000 V   |
| surge current resistance at (8/20) $\mu$ s   | 1 kA  |
| tripping fault current rated value   | 30 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> | 40 A<br>37.2 A<br>35.6 A<br>34.8 A<br>34 A<br>40 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>  | 400 V<br>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>   | 6 kA<br>6 kA  |

|  |   |   |
|--|---|---|
| short-circuit current breaking capacity (I <sub>cn</sub> ) according to EN 61009-1 rated value | 6 kA  |   |
| rated residual switching capacity (I <sub>Δm</sub> ) according to IEC 61009-1                  | 3 kA  |   |
| energy limitation class  | 3   |   |
| <b>Dissipation</b>   |   |   |
| power loss [W]   |   |   |
| • for rated value of the current at AC in hot operating state per pole                         | 0.75 W  |   |
| • maximum  | 2.3 W   |   |
| <b>Product details</b>   |   |   |
| product feature touch protection   | Yes   |   |
| product component neutral conductor switching  | Yes   |   |
| product feature halogen-free   | Yes   |   |
| product feature silicon-free   | Yes   |   |
| <b>Product function</b>  |   |   |
| product function   | voltage dependent RCD function  |   |
| <b>Connections</b>   |   |   |
| 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  |   |
| <b>Mechanical Design</b>   |   |   |
| height   | 90 mm   |   |
| width  | 126 mm  |   |
| depth  | 77 mm   |   |
| installation depth   | 70 mm   |   |
| number of modular width units  | 7   |   |
| mounting position  | any   |   |
| Net Weight   | 500 g   |   |
| <b>Environmental conditions</b>  |   |   |
| influence of the surrounding temperature   | Max. 95% humidity   |   |
| ambient temperature during operation   |   |   |
| • minimum  | -25 °C  |   |
| • maximum  | 45 °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  |   |
| <b>Approvals Certificates</b>  |   |   |
| Environment  | General Product Approval  | other   |
| <a href="#">Environmental Con-<br/>firmations</a>  | <a href="#">Environmental Con-<br/>firmations</a>                                     | <a href="#">Confirmation</a>  |
|             |  |  |
| other  |   |   |

[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=5SU9346-1CN40>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SU9346-1CN40>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SU9346-1CN40](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SU9346-1CN40)

**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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