



RCBO, 6 kA, 1P+N, type A, 30 mA, C-Char, In: 40 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                                                | 30 mA                                                                   |
| operational current                                                               |                                                                         |
| • at 30 °C rated value                                                            | 40 A                                                                    |
| • at 40 °C rated value                                                            | 37.6 A                                                                  |
| • at 45 °C rated value                                                            | 36.4 A                                                                  |
| • at 50 °C rated value                                                            | 34.8 A                                                                  |
| • at 55 °C rated value                                                            | 32.4 A                                                                  |
| • at 60 °C rated value                                                            | 32.4 A                                                                  |
| • at 65 °C rated value                                                            | 30.8 A                                                                  |
| • at 70 °C rated value                                                            | 29.2 A                                                                  |
| • at AC rated value                                                               | 40 A                                                                    |
| residual current type                                                             | A                                                                       |
| Supply voltage                                                                    |                                                                         |
| supply voltage                                                                    |                                                                         |
| • at AC rated value                                                               | 230/240 V                                                               |
| • for testing equipment minimum                                                   | 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 |
| 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                                    | 10 kA |
| rated residual switching capacity (I $\Delta$ m) according to IEC 61009-1 | 6 kA  |
| energy limitation class                                                   | 3     |

#### Dissipation

|                |       |
|----------------|-------|
| power loss [W] |       |
| • maximum      | 7.8 W |

#### Product details

|                        |     |
|------------------------|-----|
| <b>product feature</b> |     |
| • 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                    | 284 g |
| weight with packaging         | 284 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

[Miscellaneous](#)



[Miscellaneous](#)

[Special Test Certificate](#)



| other                         |                              |                               | Railway                                  |                              | Dangerous Good                        |
|-------------------------------|------------------------------|-------------------------------|------------------------------------------|------------------------------|---------------------------------------|
| <a href="#">Miscellaneous</a> | <a href="#">Confirmation</a> | <a href="#">Miscellaneous</a> | <a href="#">Special Test Certificate</a> | <a href="#">Confirmation</a> | <a href="#">Transport Information</a> |

| Environment                                 |                                             |
|---------------------------------------------|---------------------------------------------|
| <a href="#">Environmental Confirmations</a> | <a href="#">Environmental Confirmations</a> |

| Further information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Information on the packaging<br/><a href="https://support.industry.siemens.com/cs/ww/en/view/109813875">https://support.industry.siemens.com/cs/ww/en/view/109813875</a></p> <p>Information- and Downloadcenter (Catalogs, Brochures,...)<br/><a href="http://www.siemens.com/lowvoltage/catalogs">http://www.siemens.com/lowvoltage/catalogs</a></p> <p>Industry Mall (Online ordering system)<br/><a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SU1356-7KK40">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SU1356-7KK40</a></p> <p>Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)<br/><a href="https://support.industry.siemens.com/cs/ww/en/ps/5SU1356-7KK40">https://support.industry.siemens.com/cs/ww/en/ps/5SU1356-7KK40</a></p> <p>Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)<br/><a href="http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SU1356-7KK40">http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SU1356-7KK40</a></p> <p>CAX-Online-Generator<br/><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a></p> <p>Tender specifications<br/><a href="http://www.siemens.com/specifications">http://www.siemens.com/specifications</a></p> |



last modified:

3/12/2024 

