



Figure similar

Residual current operated circuit breaker, 4-pole, type A, In: 80 A, 300 mA, Un AC: 400 V

| Model                                                                  |                                                                         |
|------------------------------------------------------------------------|-------------------------------------------------------------------------|
| product brand name                                                     | SENTRON                                                                 |
| product designation                                                    | RCCB                                                                    |
| design of the product                                                  | Instantaneous                                                           |
| product type designation                                               | 5SV3                                                                    |
| General technical data                                                 |                                                                         |
| number of poles                                                        | 4                                                                       |
| size of installation devices according to DIN 43880                    | 1                                                                       |
| mechanical service life (operating cycles) typical                     | 10 000                                                                  |
| short-circuit current of series fuse maximum permissible               | 100 A                                                                   |
| short-circuit current rating                                           | 10 kA                                                                   |
| switching function short-term delayed                                  | No                                                                      |
| overvoltage category                                                   | III                                                                     |
| tripping fault current rated value                                     | 300 mA                                                                  |
| Supply voltage                                                         |                                                                         |
| supply voltage for testing equipment minimum                           | 100 V                                                                   |
| value range of the supply voltage frequency                            | 50 Hz                                                                   |
| value range of the operating frequency                                 | 50 Hz                                                                   |
| value range of the supply voltage at AC                                | 230/400 V                                                               |
| Protection class                                                       |                                                                         |
| protection class IP                                                    | IP20, if the distribution board is installed, with connected conductors |
| Breaking Capacity                                                      |                                                                         |
| switching capacity current                                             |                                                                         |
| • according to IEC 61008-1 rated value                                 | 0.8 kA                                                                  |
| grid spacing                                                           | 60 mm                                                                   |
| Dissipation                                                            |                                                                         |
| power loss [W]                                                         |                                                                         |
| • for rated value of the current at AC in hot operating state per pole | 4.1 W                                                                   |
| • maximum                                                              | 12.3 W                                                                  |
| Product details                                                        |                                                                         |
| product feature silicon-free                                           | Yes                                                                     |
| product extension installable supplementary devices                    | 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> |
| tightening torque with screw-type terminals |                    |
| • minimum                                   | 2.5 N·m            |
| • maximum                                   | 3 N·m              |
| position of power supply cord               | top or bottom      |

#### Mechanical Design

|                               |                |
|-------------------------------|----------------|
| height                        | 90 mm          |
| width                         | 72 mm          |
| depth                         | 70 mm          |
| installation depth            | 70 mm          |
| number of modular width units | 4              |
| fastening method              | DIN rail (REG) |
| mounting position             | any            |
| net weight                    | 358 g          |

#### Environmental conditions

|                                                                             |        |
|-----------------------------------------------------------------------------|--------|
| ambient temperature during operation                                        |        |
| • minimum                                                                   | -25 °C |
| • maximum                                                                   | 45 °C  |
| ambient temperature during storage minimum                                  | -40 °C |
| number of test cycles for environmental testing according to IEC 60068-2-30 | 28     |

#### Environmental footprint

|                                                                    |          |
|--------------------------------------------------------------------|----------|
| Environmental Product Declaration (EPD)                            | Yes      |
| Global Warming Potential [CO <sub>2</sub> eq] total                | 63.8 kg  |
| Global Warming Potential [CO <sub>2</sub> eq] during manufacturing | 1.98 kg  |
| Global Warming Potential [CO <sub>2</sub> eq] during operation     | 61.7 kg  |
| Global Warming Potential [CO <sub>2</sub> eq] after end of life    | 0.106 kg |

#### Approvals Certificates

##### General Product Approval



[Confirmation](#)



##### General Product Approval

##### EMV

##### Test Certificates



[Miscellaneous](#)



[Miscellaneous](#)

##### other

##### Railway

##### Dangerous Good

##### Environment

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[Confirmation](#)

[Confirmation](#)

[Transport Information](#)



[Environmental Confirmations](#)

#### Environment

[Environmental Confirmations](#)

#### Further information

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=5SV3647-6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SV3647-6>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SV3647-6](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV3647-6)

CAX-Online-Generator

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

Tender specifications

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





