

Siemens  
EcoTech



Residual current operated circuit breaker, 2-pole, type A, selective, In: 63 A, 100 mA, Un AC: 230 V

| Model                                                                  |                                                                         |
|------------------------------------------------------------------------|-------------------------------------------------------------------------|
| product brand name                                                     | SENTRON                                                                 |
| product designation                                                    | Residual current operated circuit breaker                               |
| design of the product                                                  | Selective                                                               |
| product type designation                                               | 5SV3                                                                    |
| General technical data                                                 |                                                                         |
| number of poles                                                        | 2                                                                       |
| 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               | 80 A                                                                    |
| short-circuit current rating                                           | 10 kA                                                                   |
| switching function short-term delayed                                  | No                                                                      |
| degree of pollution                                                    | 2                                                                       |
| insulation voltage (Ui) rated value                                    | 2 000 V                                                                 |
| tripping fault current rated value                                     | 100 mA                                                                  |
| let-through current permissible                                        | 7 100 A                                                                 |
| I <sub>2t</sub> value permissible                                      | 110 000 A <sup>2</sup> ·s                                               |
| 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                                 | 50/60 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 | 5.3 W                                                                   |
| • maximum                                                              | 10.6 W                                                                  |
| Appearance                                                             |                                                                         |
| RAL color number                                                       | 7 035                                                                   |
| RAL color number (similar)                                             | 7 035                                                                   |

| Product details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                |                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------|
| product feature silicon-free                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Yes                                            |                                       |
| product extension installable supplementary devices                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Yes                                            |                                       |
| Connections                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                |                                       |
| connectable conductor cross-section solid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                |                                       |
| • minimum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.75 mm²                                       |                                       |
| • maximum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 35 mm²                                         |                                       |
| connectable conductor cross-section stranded                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                |                                       |
| • minimum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.75 mm²                                       |                                       |
| • maximum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 35 mm²                                         |                                       |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 36 mm                                          |                                       |
| depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 70 mm                                          |                                       |
| installation depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 70 mm                                          |                                       |
| number of modular width units                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2                                              |                                       |
| fastening method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | DIN rail                                       |                                       |
| mounting position                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | any                                            |                                       |
| Net Weight                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 213 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                                             |                                       |
| Approvals Certificates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                |                                       |
| Environment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | General Product Approval                       |                                       |
| <div><div><div><a href="#">Environmental Con-<br/>firmations</a></div><div></div></div><div><div><a href="#">Environmental Con-<br/>firmations</a></div><div></div></div><div><div></div><div></div></div></div>                                                                                                                                                                                                                                  |                                                |                                       |
| General Product Approval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Test Certificates                              | other                                 |
| <div><div><div><a href="#">Miscellaneous</a></div><div></div></div><div><div><a href="#">Confirmation</a></div><div></div></div><div><div><a href="#">Miscellaneous</a></div><div></div></div></div>                                                                                                                                                                                                                                                                                                                                   |                                                |                                       |
| other                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Railway                                        | Dangerous goods                       |
| <a href="#">Confirmation</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <a href="#">Special Test Certific-<br/>ate</a> | <a href="#">Transport Information</a> |
| Further information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                |                                       |
| <div>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></div> <div>Information for data generation and storage<br/><a href="https://support.industry.siemens.com/cs/ww/en/view/109995012">https://support.industry.siemens.com/cs/ww/en/view/109995012</a></div> <div>Information- and Downloadcenter (Catalogs, Brochures,...)<br/><a href="https://www.siemens.com/lowvoltage/catalogs">https://www.siemens.com/lowvoltage/catalogs</a></div> <div>Industry Mall (Online ordering system)<br/><a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SV3416-8">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SV3416-8</a></div> |                                                |                                       |

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SV3416-8>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SV3416-8](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV3416-8)

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='HAUPT'></mmp_prod_no>)





