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residual current operated circuit breaker, 2-pole, type A, In: 40 A, 30 mA, Un AC: 230 V, SIGRES: harsh environmental conditions extended test interval

| Model                                                                  |                                                                         |
|------------------------------------------------------------------------|-------------------------------------------------------------------------|
| product brand name                                                     | SENTRON                                                                 |
| product designation                                                    | Residual current operated circuit breaker                               |
| design of the product                                                  | Instantaneous                                                           |
| product type designation                                               | 5SV3                                                                    |
| product version                                                        | SIGRES (harsh ambient conditions)                                       |
| 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                                     | 30 mA                                                                   |
| let-through current permissible                                        | 5 200 A                                                                 |
| I2t value permissible                                                  | 58 000 A²·s                                                             |
| Supply voltage                                                         |                                                                         |
| supply voltage for testing equipment minimum                           | 195 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 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                                 | 0.5 kA                                                                  |
| grid spacing                                                           | 60 mm                                                                   |
| Dissipation                                                            |                                                                         |
| power loss [W]                                                         |                                                                         |
| • for rated value of the current at AC in hot operating state per pole | 1.7 W                                                                   |
| • maximum                                                              | 3.3 W                                                                   |
| Appearance                                                             |                                                                         |
| RAL color number                                                       | 7 035                                                                   |

|                                                                             |                                                                    |
|-----------------------------------------------------------------------------|--------------------------------------------------------------------|
| RAL color number (similar)                                                  | 7 035                                                              |
| <b>Product details</b>                                                      |                                                                    |
| product feature silicon-free                                                | Yes                                                                |
| product extension installable supplementary devices                         | Yes                                                                |
| <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>                                                 |
| tightening torque with screw-type terminals                                 |                                                                    |
| • minimum                                                                   | 2.5 N·m                                                            |
| • maximum                                                                   | 3 N·m                                                              |
| position of power supply cord                                               | top or bottom (top for SIGRES function also in switched-off state) |
| <b>Mechanical Design</b>                                                    |                                                                    |
| 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                                                              |
| <b>Environmental conditions</b>                                             |                                                                    |
| 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                                                                 |
| <b>Approvals Certificates</b>                                               |                                                                    |
| Environment                                                                 | General Product Approval                                           |

[Environmental Con-  
firmations](#)



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#### General Product Approval



[Miscellaneous](#)



[Confirmation](#)



|                   |       |         |                 |
|-------------------|-------|---------|-----------------|
| Test Certificates | other | Railway | Dangerous goods |
|-------------------|-------|---------|-----------------|

[Miscellaneous](#)

[Confirmation](#)



[Special Test Certific-  
ate](#)

[Transport Information](#)

#### 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=5SV3314-6KK12>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SV3314-6KK12>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SV3314-6KK12](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV3314-6KK12)

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>)





