



Residual current operated circuit breaker, 2-pole, Type F, In: 40A, 30mA, 6mA DC, Un AC: 230V, Electro Mobility

| Model  |   |
|--|---|
| product brand name   | SENTRON   |
| product designation  | Residual current operated circuit breaker                               |
| design of the product  | Short-time delayed  |
| product type designation   | 5SV3  |
| product version  | SIGRES, 6mA DC  |
| 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   | 100 A   |
| short-circuit current rating   | 10 kA   |
| switching function short-term delayed  | Yes   |
| degree of pollution  | 2   |
| insulation voltage (Ui) rated value  | 2 000 V   |
| tripping fault current rated value   | 30 mA   |
| let-through current permissible  | 7 500 A   |
| I <sup>2</sup> t value permissible   | 70 000 A <sup>2</sup> ·s  |
| Supply voltage   |   |
| supply voltage for testing equipment minimum   | 70 V  |
| value range of the supply voltage frequency  | 50/60 Hz  |
| value range of the operating frequency   | 50/60 Hz  |
| value range of the supply voltage at AC  | 70-250 V  |
| 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 IEC 61008-1 rated value</li> </ul>                                 | 0.8 kA  |
| grid spacing   | 60 mm   |
| Dissipation  |   |
| power loss [W]   |   |
| <ul style="list-style-type: none"> <li>for rated value of the current at AC in hot operating state per pole</li> </ul> | 2.5 W   |
| <ul style="list-style-type: none"> <li>maximum</li> </ul>  | 5 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  |
| <b>Connections</b>                                  |  |
| <b>connectable conductor cross-section solid</b>    |  |
| • minimum   | 0.75 mm <sup>2</sup>   |
| • maximum   | 35 mm <sup>2</sup>   |
| <b>connectable conductor cross-section stranded</b> |  |
| • minimum   | 0.75 mm <sup>2</sup>   |
| • maximum   | 35 mm <sup>2</sup>   |
| <b>tightening torque with screw-type terminals</b>  |  |
| • minimum   | 2.5 N·m  |
| • maximum   | 3 N·m  |
| <b>position of power supply cord</b>                | top or bottom (top for SIGRES function also in switched-off state) |

|                               |          |
|-------------------------------|----------|
| <b>Mechanical Design</b>      |          |
| height                        | 90 mm    |
| width                         | 72 mm    |
| depth                         | 70 mm    |
| installation depth            | 70 mm    |
| number of modular width units | 4        |
| fastening method              | DIN rail |
| mounting position             | any      |
| Net Weight                    | 379 g    |

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

|                               |                   |       |
|-------------------------------|-------------------|-------|
| <b>Approvals Certificates</b> |                   |       |
| General Product Approval      | Test Certificates | other |



[Miscellaneous](#)



[Miscellaneous](#)



[Confirmation](#)

|         |                 |             |
|---------|-----------------|-------------|
| Railway | Dangerous goods | Environment |
|---------|-----------------|-------------|

[Special Test Certificate](#)

[Transport Information](#)

Siemens EcoTech



[Environmental Confirmations](#)

[Environmental Confirmations](#)

**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=5SV3324-3KK60>
- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)  
<https://support.industry.siemens.com/cs/ww/en/ps/5SV3324-3KK60>
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)  
[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SV3324-3KK60](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV3324-3KK60)
- CAX-Online-Generator  
<https://www.siemens.com/cax>
- Tender specifications  
<https://www.siemens.com/specifications>





