



Residual current operated circuit breaker, 2-pole, type A, short-time delayed, In: 80 A, 300 mA, Un AC: 230 V

| Model  |   |
|--|---|
| product brand name   | SENTRON   |
| product designation  | Residual current operated circuit breaker                               |
| design of the product  | Short-time delayed  |
| 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                                  | Yes   |
| degree of pollution  | 2   |
| insulation voltage (Ui) rated value                                    | 2 000 V   |
| tripping fault current rated value                                     | 300 mA  |
| let-through current permissible  | 7 100 A   |
| I <sup>2</sup> t 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 | 3.9 W   |
| • maximum  | 7.8 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 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                         | 36 mm    |
| depth                         | 70 mm    |
| installation depth            | 70 mm    |
| number of modular width units | 2        |
| fastening method              | DIN rail |
| mounting position             | any      |
| Net Weight                    | 215 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 |

[Environmental Con-  
firmations](#)



[Environmental Con-  
firmations](#)



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=5SV3617-6KK01>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SV3617-6KK01>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SV3617-6KK01](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV3617-6KK01)

CAx-Online-Generator

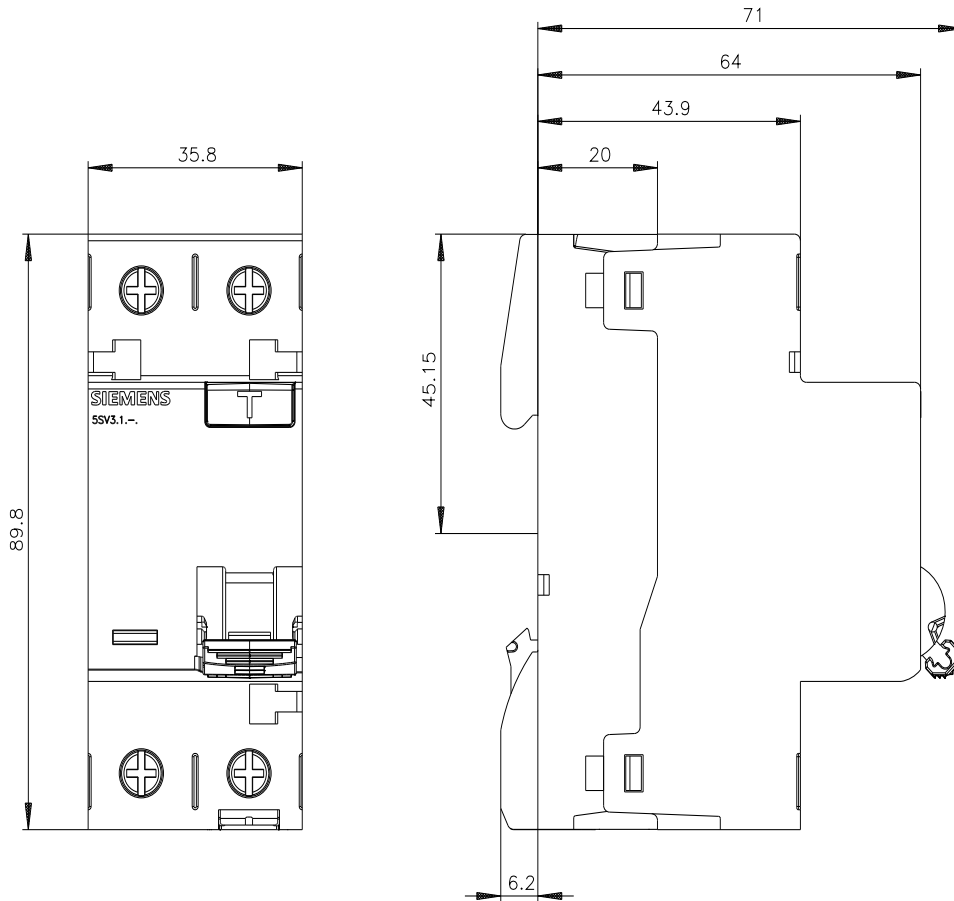
<https://www.siemens.com/cax>

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>)





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