



Residual current operated circuit breaker, 4-pole, type A, short-time delayed, In: 63 A, 300 mA, Un AC: 400 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 | 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 | 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 |
| I2t value permissible | 110 000 A ² ·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 | 11.7 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 ² |
| • maximum | 35 mm ² |
| connectable conductor cross-section stranded | |
| • minimum | 0.75 mm ² |
| • maximum | 35 mm ² |
| 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 |
| mounting position | any |
| Net Weight | 376 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

| | |
|---|----------|
| global warming potential [CO2 eq] total | 63.8 kg |
| global warming potential [CO2 eq] during manufacturing | 1.98 kg |
| global warming potential [CO2 eq] during operation | 61.7 kg |
| global warming potential [CO2 eq] after end of life | 0.106 kg |

Approvals Certificates

General Product Approval



Miscellaneous



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

[Miscellaneous](#)



[Confirmation](#)

[Special Test Certificate](#)

[Transport Information](#)



Environment

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,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SV3646-6KK01>

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

<http://support.industry.siemens.com/cs/ww/en/ps/5SV3646-6KK01>

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

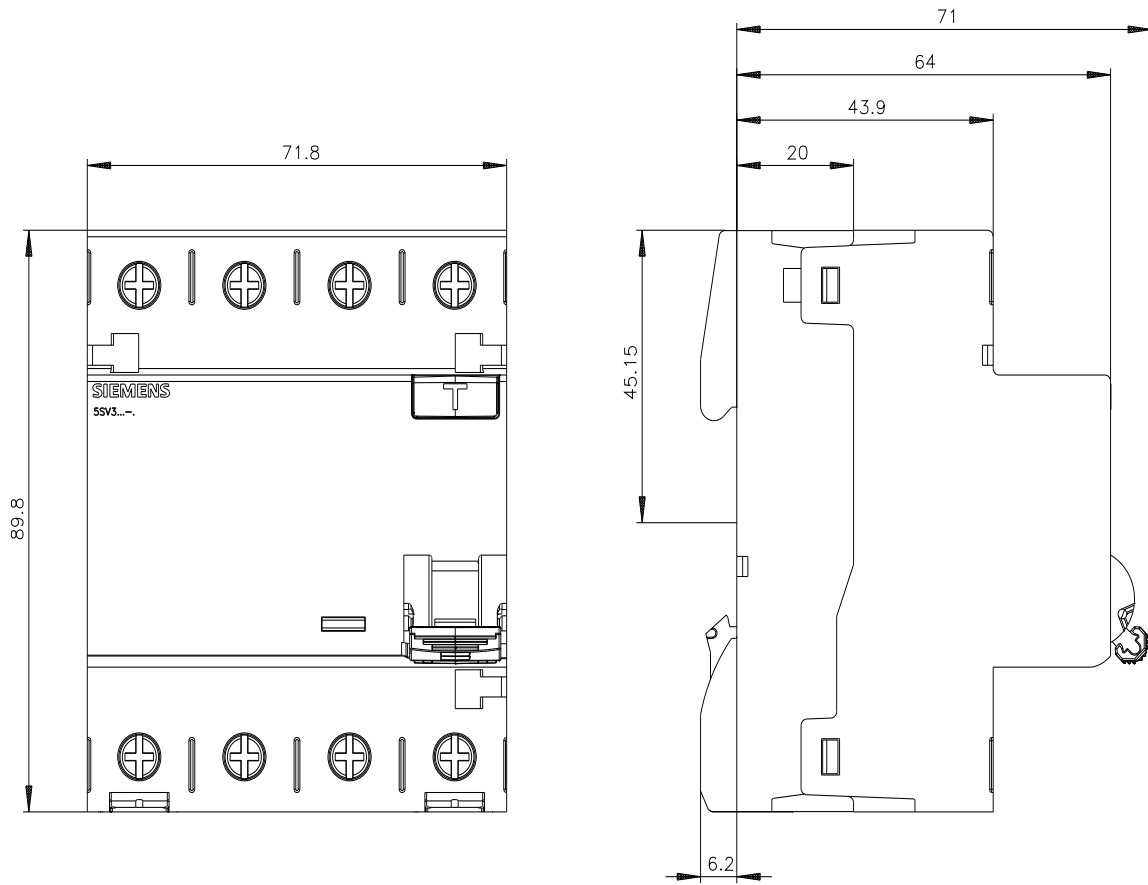
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV3646-6KK01

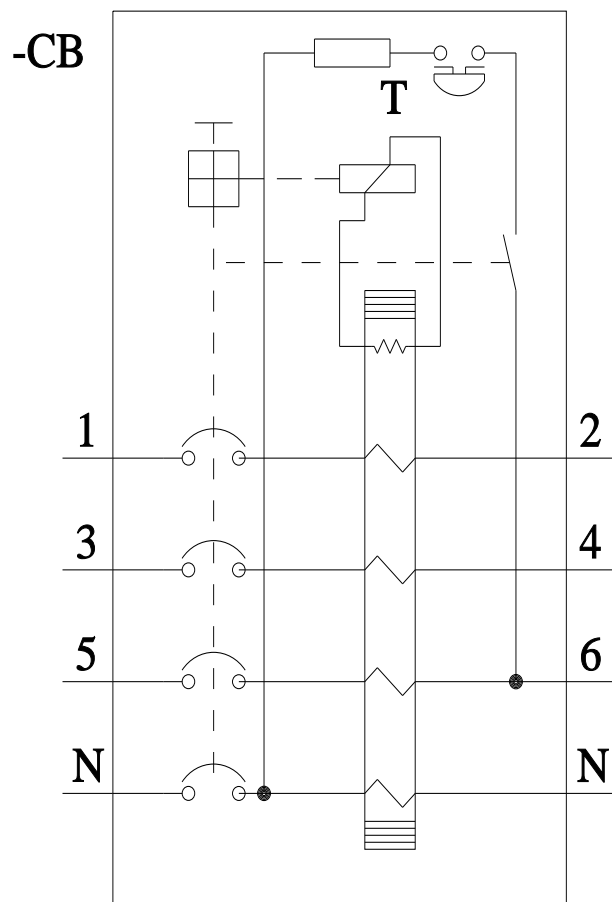
CAX-Online-Generator

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

Tender specifications

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





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