

Residual current operated circuit breaker, 4-pole, type A, In: 40 A, 300 mA, Un AC: 500 V



| Model                                                |                              |
|------------------------------------------------------|------------------------------|
| Product brand name                                   | SENTRON                      |
| Product designation                                  | RCCB                         |
| Design of the product                                | Instantaneous                |
| General technical data                               |                              |
| Number of poles                                      | 4                            |
| Size of installation devices / acc. to DIN 43880     | 1                            |
| Protection against electrical shock                  | Finger and back-of-hand safe |
| Short-circuit current rating                         | 10 kA                        |
| circuit-breaker / Design                             | 5SV3                         |
| Mechanical service life (switching cycles) / typical | 10 000                       |
| Switching function / short-term delayed              | No                           |
| Overvoltage category                                 | III                          |
| Supply voltage                                       |                              |
| Supply voltage                                       |                              |
| • at AC / rated value                                | 500 V                        |
| • for testing equipment / minimum                    | 100 V                        |
| Supply voltage frequency                             |                              |

|                                                                                             |                                                                         |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| • rated value                                                                               | 50 Hz                                                                   |
| <b>Protection class</b>                                                                     |                                                                         |
| Protection class IP                                                                         | IP20, if the distribution board is installed, with connected conductors |
| <b>Switching capacity</b>                                                                   |                                                                         |
| Switching capacity current / according to IEC 61008-1 / rated value                         | 0.8 kA                                                                  |
| <b>Dissipation</b>                                                                          |                                                                         |
| Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 1.8 W                                                                   |
| <b>Electricity</b>                                                                          |                                                                         |
| Tripping residual current / rated value                                                     | 300 mA                                                                  |
| Tripping residual / rated value / derated current                                           |                                                                         |
| • at 40 Cel                                                                                 | 40 A                                                                    |
| • at 45 Cel                                                                                 | 40 A                                                                    |
| • at 50 Cel                                                                                 | 40 A                                                                    |
| • at 55 Cel                                                                                 | 40 A                                                                    |
| • at 60 Cel                                                                                 | 40 A                                                                    |
| • at 65 Cel                                                                                 | 40 A                                                                    |
| • at 70 Cel                                                                                 | 40 A                                                                    |
| Type of fault current                                                                       | A                                                                       |
| Current / at AC / rated value                                                               | 40 A                                                                    |
| I <sup>2</sup> t-value / permissible                                                        | 15 000 A <sup>2</sup> ·s                                                |
| Surge current resistance / rated value                                                      | 1 kA                                                                    |
| <b>Product details</b>                                                                      |                                                                         |
| Product feature / silicon-free                                                              | Yes                                                                     |
| Product extension / can be installed / supplementary devices                                | Yes                                                                     |
| <b>Number</b>                                                                               |                                                                         |
| Number of test cycles / for environmental testing / acc. to IEC 60068-2-30                  | 28                                                                      |
| <b>Connections</b>                                                                          |                                                                         |
| Connectable conductor cross-section / stranded                                              |                                                                         |
| • minimum                                                                                   | 0.75 mm <sup>2</sup>                                                    |
| • maximum                                                                                   | 35 mm <sup>2</sup>                                                      |
| Connectable conductor cross-section / solid                                                 |                                                                         |
| • 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                 | 72 mm          |
| Depth                 | 70 mm          |
| Mounting position     | any            |
| Installation depth    | 70 mm          |
| Number of width units | 4              |
| Mounting type         | DIN rail (REG) |

## Environmental conditions

|                                        |        |
|----------------------------------------|--------|
| Ambient temperature                    |        |
| • minimum                              | -25 °C |
| • maximum                              | 45 °C  |
| • during storage / minimum permissible | -40 °C |
| • during storage / maximum permissible | 75 °C  |

## Certificates

|                          |   |
|--------------------------|---|
| Reference code           |   |
| • acc. to DIN EN 61346-2 | F |
| • acc. to DIN EN 81346-2 | F |

**General Product Approval**

**Declaration of  
Conformity**

**other**

**Railway**



[Miscellaneous](#)



[Miscellaneous](#)

[Vibration and Shock](#)

[Confirmation](#)

VDE

EG-Konf.

## Further information

**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=5SV3654-6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SV3654-6>

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

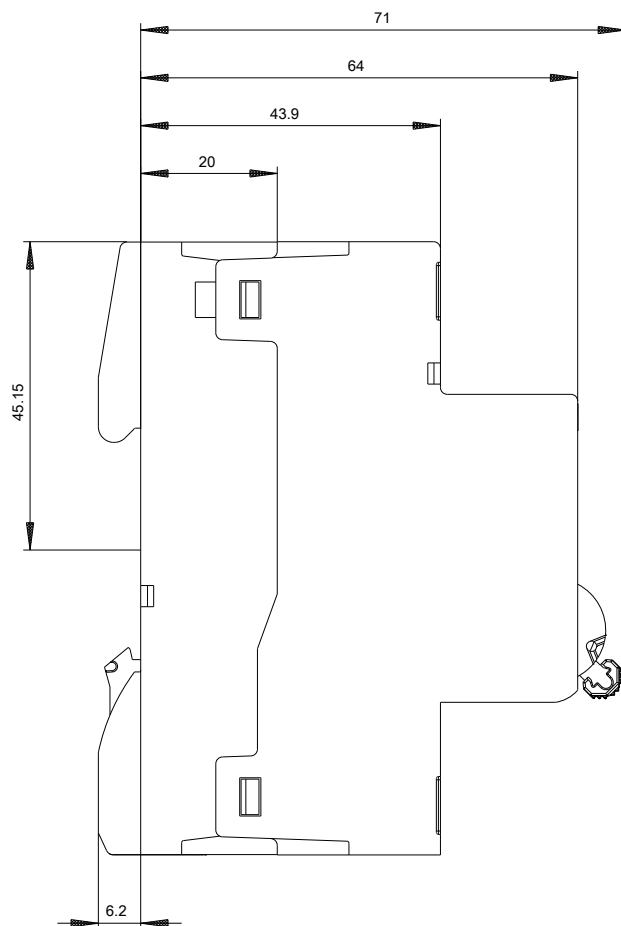
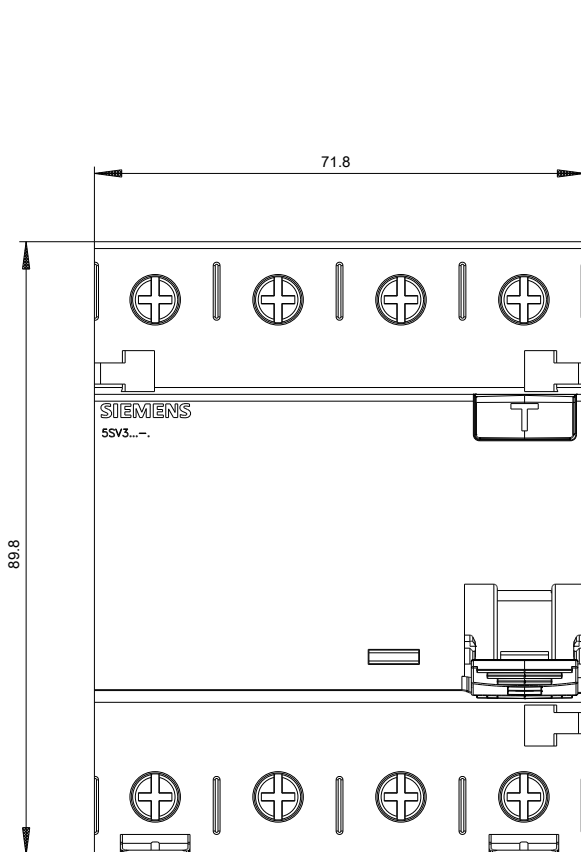
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SV3654-6](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV3654-6)

**CAX-Online-Generator**

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

**Tender specifications**

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





-CB

