SIEMENS

## Data sheet 5SV3646-6

Residual current operated circuit breaker, 4-pole, type A, In: 63 A, 300 mA, Un AC: 400 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 / of series fuse / maximum permissible | 100 A |
| 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 | |
|---|---|
| Operating current / at AC / rated value | 63 A |
| Supply voltage | |


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| | |
|---|---|
| • at AC / rated value | 230/400 V |
| • for testing equipment / minimum | 100 V |
| Operating frequency | 50 Hz |
| Supply voltage frequency | |
| • rated value | 50 Hz |

| Protection class | |
|---|---|
| Protection class IP | IP20, if the distribution board is installed, with connected conductors |

| Switching capacity | |
|---|---|
| Switching capacity current / according to IEC 61008-1 / rated value | 0.8 kA |

| Dissipation | |
|---|---|
| Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 3.9 W |

| Current | |
|---|---|
| Tripping residual current / rated value | 300 mA |
| Tripping residual / rated value / derated current | |
| • at 40 Cel | 63 A |
| • at 45 Cel | 63 A |
| • at 50 Cel | 63 A |
| • at 55 Cel | 63 A |
| • at 60 Cel | 63 A |
| • at 65 Cel | 57.35 A |
| • at 70 Cel | 48.84 A |
| Type of fault current | A |
| I2t-value / permissible | 110 000 $A^2 \cdot s$ |
| Surge current resistance / rated value | 1 kA |

| Product details | |
|---|---|
| Product feature / silicon-free | Yes |
| Product extension / can be installed / 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 |


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| | |
|---|---|
| • 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 width units | 4 |
| Mounting type | DIN rail (REG) |
| Mounting position | any |
| Net weight | 358 g |

## Environmental conditions

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

## Certificates

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

### General Product Approval

CEBEC CCC IMQ ÖVE VDE

Miscellaneous

| Declaration of Conformity | other | Railway | |
|---|---|---|---|
| EG-Konf. | Miscellaneous | Vibration and Shock | Confirmation |

## 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=5SV3646-6

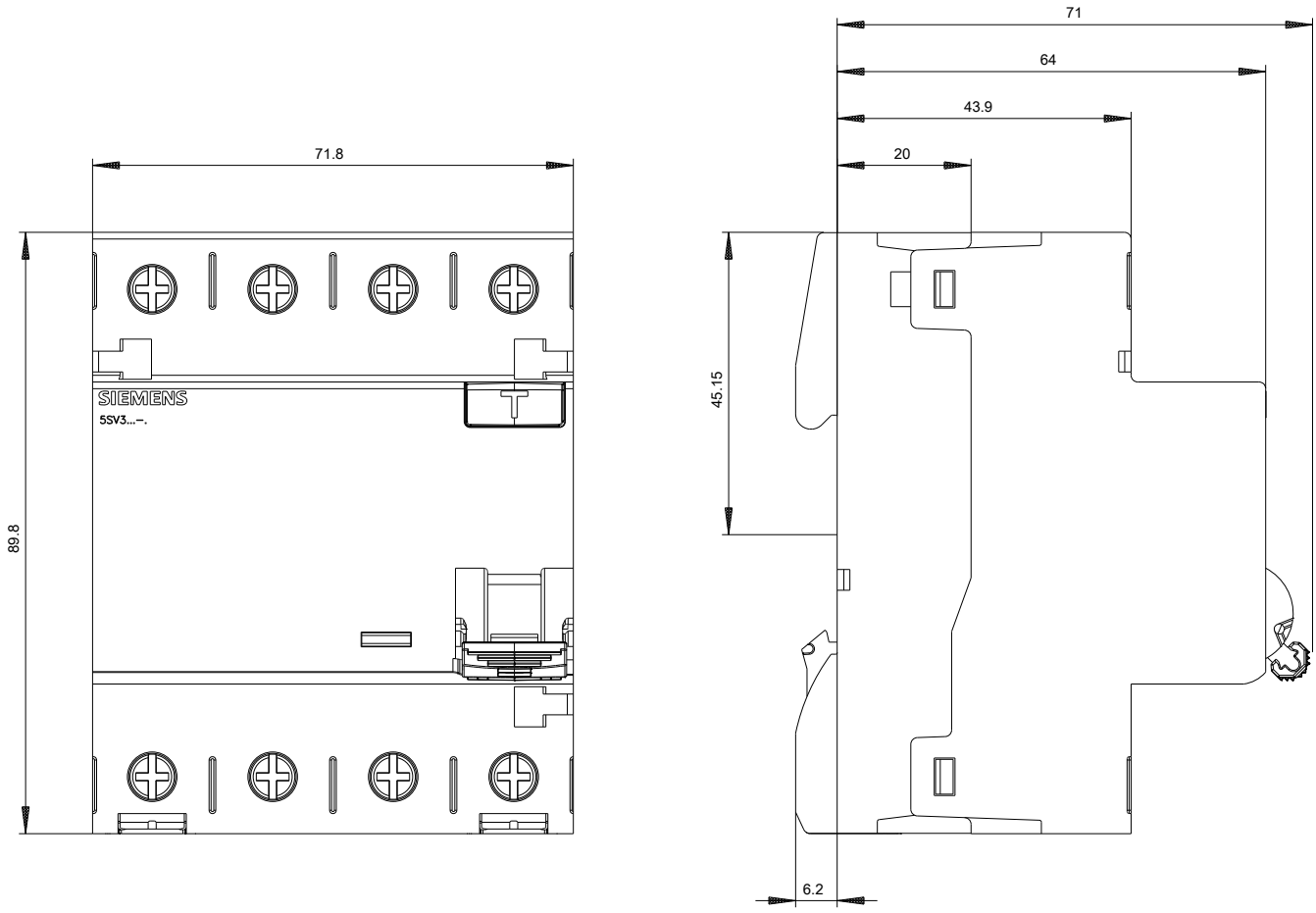
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/5SV3646-6


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**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV3646-6

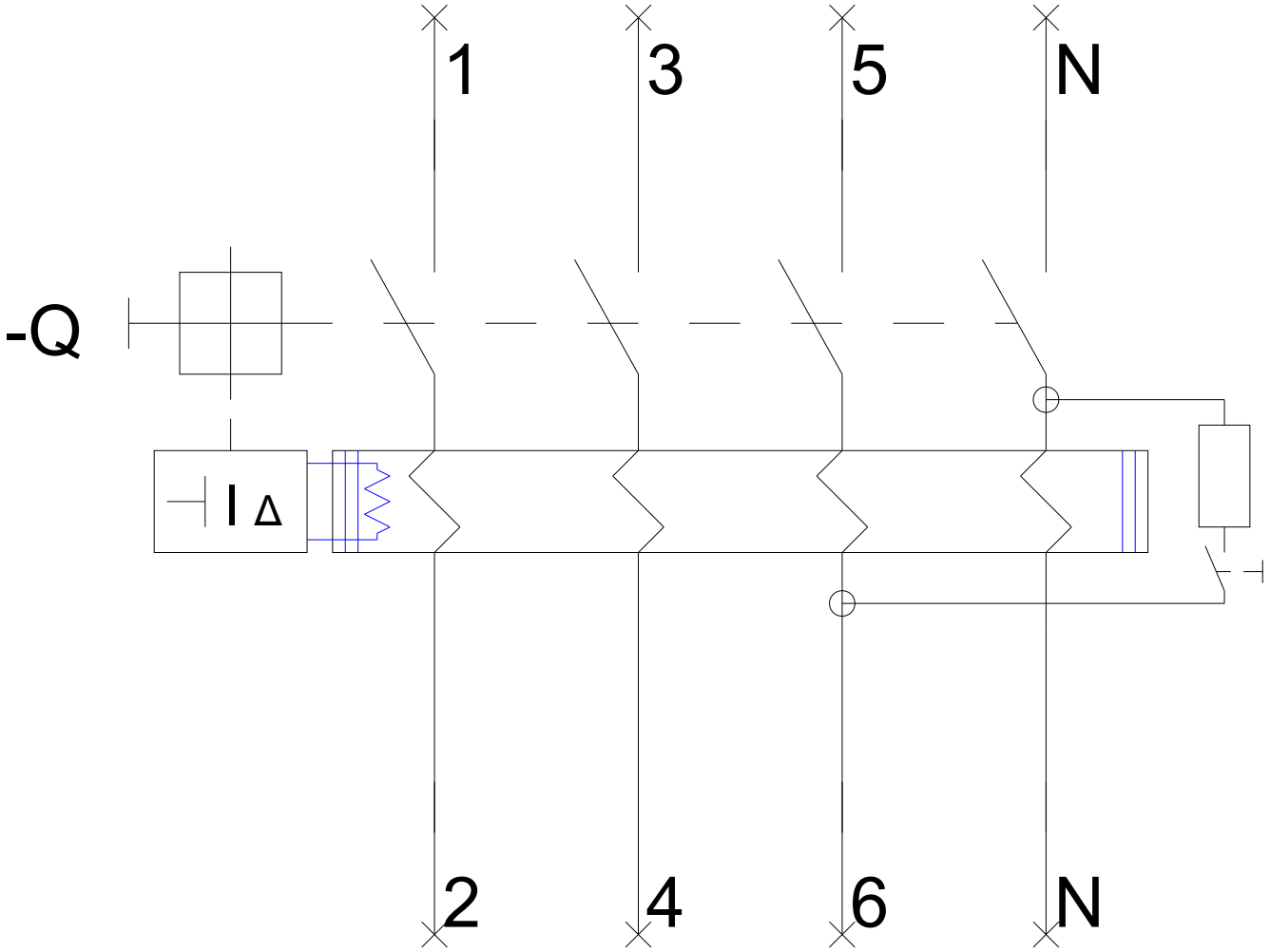
**CAx-Online-Generator**
http://www.siemens.com/cax

**Tender specifications**
http://www.siemens.com/specifications





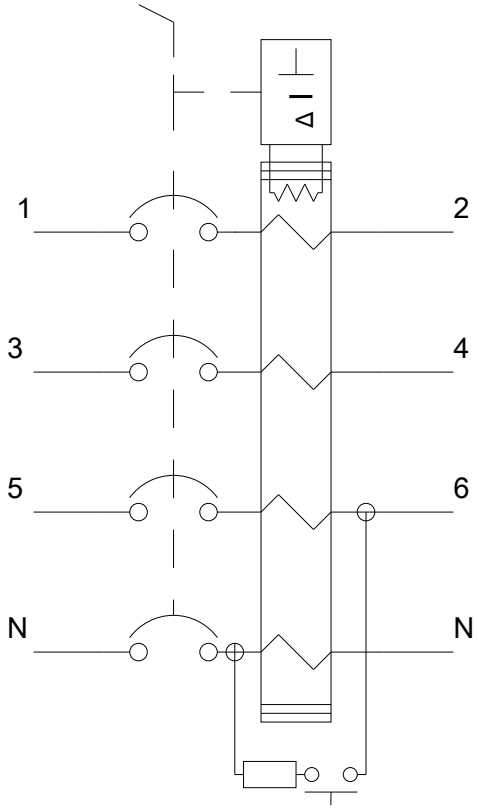
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