SIEMENS

## Data sheet 5SV1616-6KK10

RCBO compact 1P+N 6 kA type A 300 mA B10

Siemens EcoTech



Figure similar

| | |
|---|---|
| **Model** | |
| **product brand name** | SENTRON |
| **product designation** | RCBO |
| **design of the product** | Instantaneous |
| **General technical data** | |
| **number of poles** | 2 |
| **number of poles with protection** | 1 |
| **design of pole** | 1P+N |
| **tripping characteristic class** | B |
| **mechanical service life (operating cycles) typical** | 10 000 |
| **overvoltage category** | 3 |
| **degree of pollution** | 2 |
| **Voltage** | |
| **type of voltage of the operating voltage** | AC |
| insulation voltage (Ui) rated value | 253 V |
| surge voltage resistance rated value | 4 000 V |
| **surge current resistance at (8/20) µs** | 1 kA |
| **tripping fault current rated value** | 300 mA |
| **• operational current** | |
| — at 30 °C rated value | 10 A |
| **— at 40 °C rated value** | 9.4 A |
| — at 45 °C rated value | 9.1 A |
| — at 50 °C rated value | 8.8 A |
| — at 55 °C rated value | 8.4 A |
| — at 60 °C rated value | 8.1 A |
| — at 65 °C rated value | 7.7 A |
| — at 70 °C rated value | 7.4 A |
| **• operational current at AC rated value** | 10 A |
| **residual current type** | A |
| **Supply voltage** | |
| **supply voltage** | |
| • at AC rated value | 230 V |
| • for testing equipment minimum | 195 V |
| **operating frequency** | 50/60 Hz |


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| | |
|---|---|
| supply voltage frequency rated value | 50 Hz |
| **Protection class** | |
| **protection class IP** | IP20, if the distribution board is installed, with connected conductors |
| **Breaking Capacity** | |
| **switching capacity current** | |
| ● according to EN 60898 rated value | 6 kA |
| ● according to IEC 60947-2 rated value | 25 kA |
| **short-circuit current breaking capacity (Icn) according to EN 61009-1 rated value** | 6 kA |
| **rated residual switching capacity (IΔm) according to IEC 61009-1** | 4.5 kA |
| **energy limitation class** | 3 |
| **Dissipation** | |
| **power loss [W]** | |
| ● maximum | 2.2 W |
| **Product details** | |
| **product feature touch protection** | Yes |
| product component neutral conductor switching | Yes |
| **product feature halogen-free** | Yes |
| **product feature silicon-free** | Yes |
| **Connections** | |
| **connectable conductor cross-section solid** | |
| ● minimum | 0.75 mm² |
| ● maximum | 16 mm² |
| **connectable conductor cross-section stranded** | |
| ● minimum | 0.75 mm² |
| ● maximum | 16 mm² |
| **connectable conductor cross-section finely stranded with core end processing** | |
| ● minimum | 0.75 mm² |
| ● maximum | 10 mm² |
| **tightening torque with screw-type terminals** | |
| ● minimum | 1.2 N·m |
| ● maximum | 2 N·m |
| **position of power supply cord** | Either top or bottom |
| **Mechanical Design** | |
| **height** | 90 mm |
| **width** | 18 mm |
| **depth** | 77 mm |
| **installation depth** | 70 mm |
| **number of modular width units** | 1 |
| **mounting position** | any |
| **Net Weight** | 132 g |
| **weight with packaging** | 133 g |
| **Environmental conditions** | |
| **influence of the surrounding temperature** | Max. 95% humidity |
| **ambient temperature during operation** | |
| ● minimum | -25 °C |
| ● maximum | 45 °C |
| **ambient temperature during storage** | |
| ● minimum | -40 °C |
| ● maximum | 75 °C |
| **number of test cycles for environmental testing according to IEC 60068-2-30** | 28 |
| **Environmental footprint** | |
| Environmental Product Declaration(EPD) | Yes |
| global warming potential [CO2 eq] total | 17.95026 kg |
| global warming potential [CO2 eq] during manufacturing | 1.32 kg |
| global warming potential [CO2 eq] during operation | 16.6 kg |
| global warming potential [CO2 eq] after end of life | 0.0016 kg |


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|---|---|

## Approvals Certificates

### General Product Approval

Confirmation

### Test Certificates

Special Test Certificate

Miscellaneous

### other

Confirmation

Miscellaneous

Miscellaneous

### Dangerous goods

Transport Information

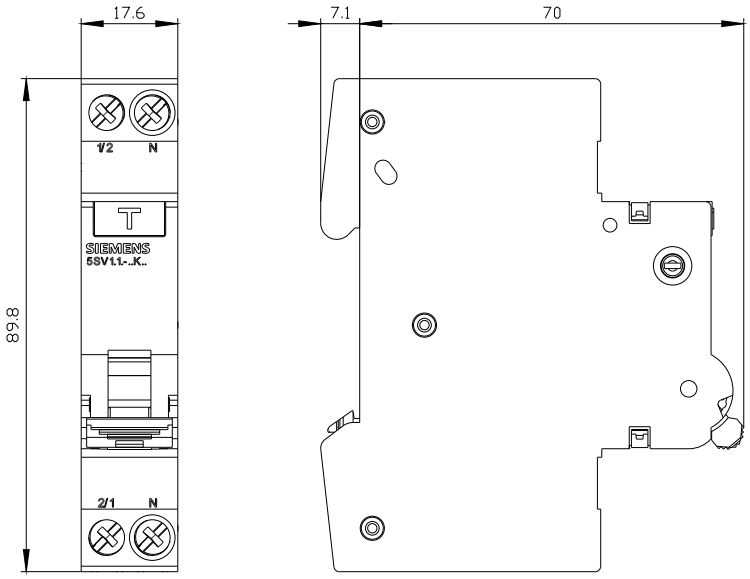
### Environment

Environmental Confirmations

Environmental Confirmations

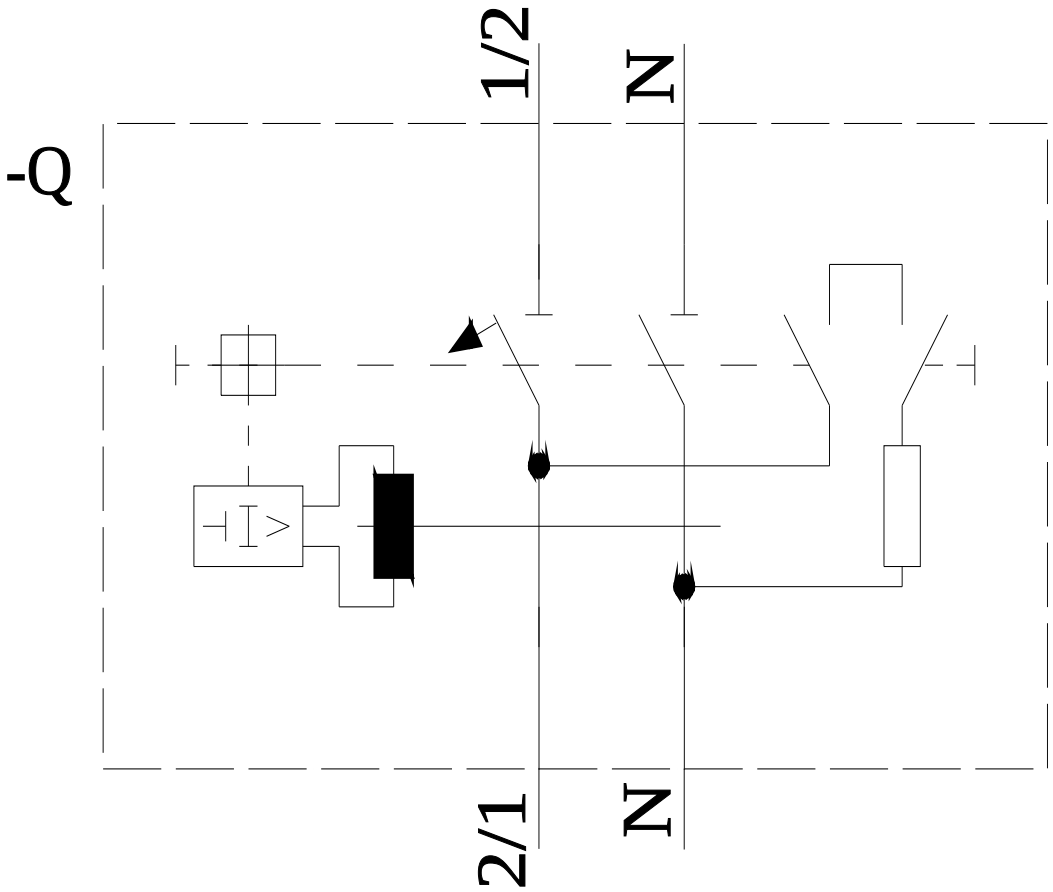
## Further information

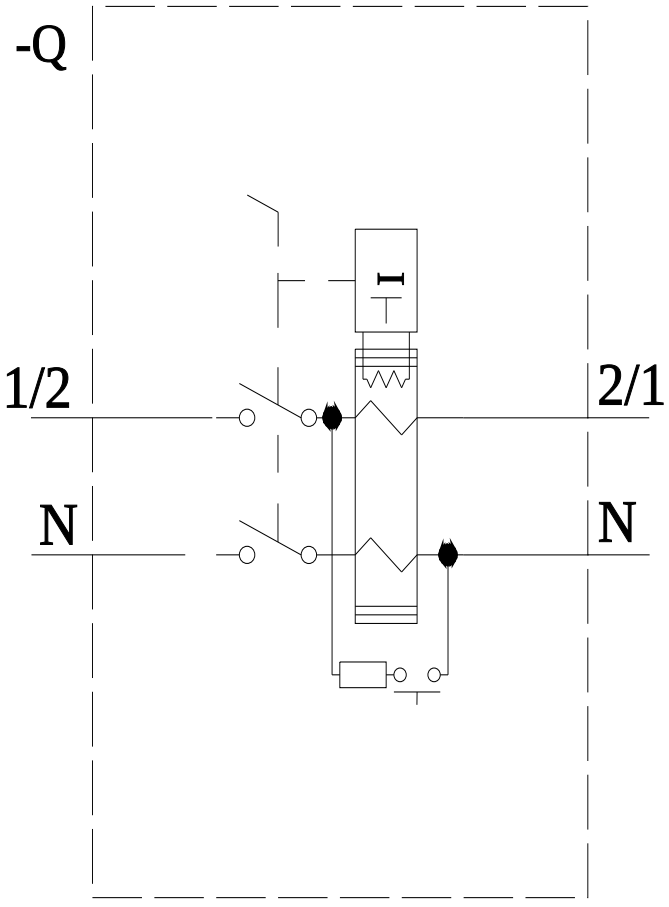
**Information on the packaging**
https://support.industry.siemens.com/cs/ww/en/view/109813875
**Information for data generation and storage**
https://support.industry.siemens.com/cs/ww/en/view/109995012
**Information- and Downloadcenter (Catalogs, Brochures,…)**
https://www.siemens.com/lowvoltage/catalogs
**Industry Mall (Online ordering system)**
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SV1616-6KK10
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/5SV1616-6KK10
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV1616-6KK10
**CAx-Online-Generator**
https://www.siemens.com/cax
**Tender specifications**
https://www.siemens.com/specifications





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