SIEMENS

## Data sheet 5SV3644-4

Siemens EcoTech



residual current operated circuit breaker, 4-pole, type B, short-time-delayed, In: 40 A, 300 mA, Un AC: 400 V SIGRES: harsh environmental conditions extended test interval

| | |
|---|---|
| **Model** | |
| **product brand name** | SENTRON |
| **product designation** | Residual current operated circuit breaker |
| **design of the product** | Short-time delayed |
| **product type designation** | 5SV3 |
| **product version** | SIGRES (harsh ambient conditions) |
| **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** | 7 500 A |
| **I2t value permissible** | 70 000 $A^2 \cdot s$ |
| **Supply voltage** | |
| supply voltage for testing equipment minimum | 70 V |
| **value range of the supply voltage frequency** | 50/60 Hz |
| **value range of the operating frequency** | 50/60 Hz |
| **value range of the supply voltage at AC** | 70-440 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** | 2.5 W |
| **• maximum** | 7.5 W |
| **Appearance** | |
| **RAL color number** | 7 035 |


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| | |
|---|---|
| **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 mm² |
| ● maximum | 35 mm² |
| **connectable conductor cross-section stranded** | |
| ● minimum | 0.75 mm² |
| ● maximum | 35 mm² |
| **tightening torque with screw-type terminals** | |
| ● minimum | 2.5 N·m |
| ● maximum | 3 N·m |
| **position of power supply cord** | top or bottom (top for SIGRES function also in switched-off state) |
| **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 |
| **mounting position** | any |
| **Net Weight** | 448 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 Confirmations | Siemens EcoTech | Environmental Confirmations | EPD | CCC | VDE |

| General Product Approval | | | | | |
|---|---|---|---|---|---|
| Miscellaneous | EAC | KEMA | AR | Confirmation | CE EG-Konf. |

| General Product Approval | EMV | Test Certificates | other | | Railway |
|---|---|---|---|---|---|
| UKCA | RCM | Miscellaneous | Confirmation | 产品合格 QC PASS | Special Test Certificate |

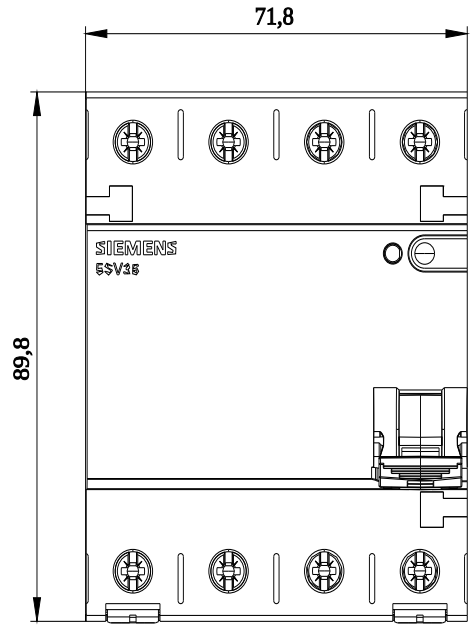
**Dangerous goods**

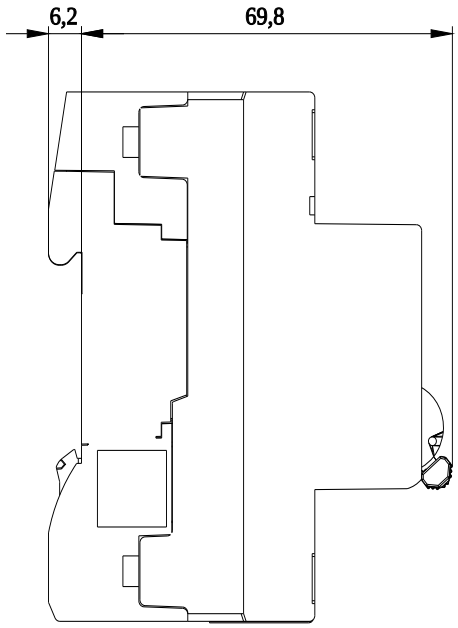
Transport Information


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## Further information

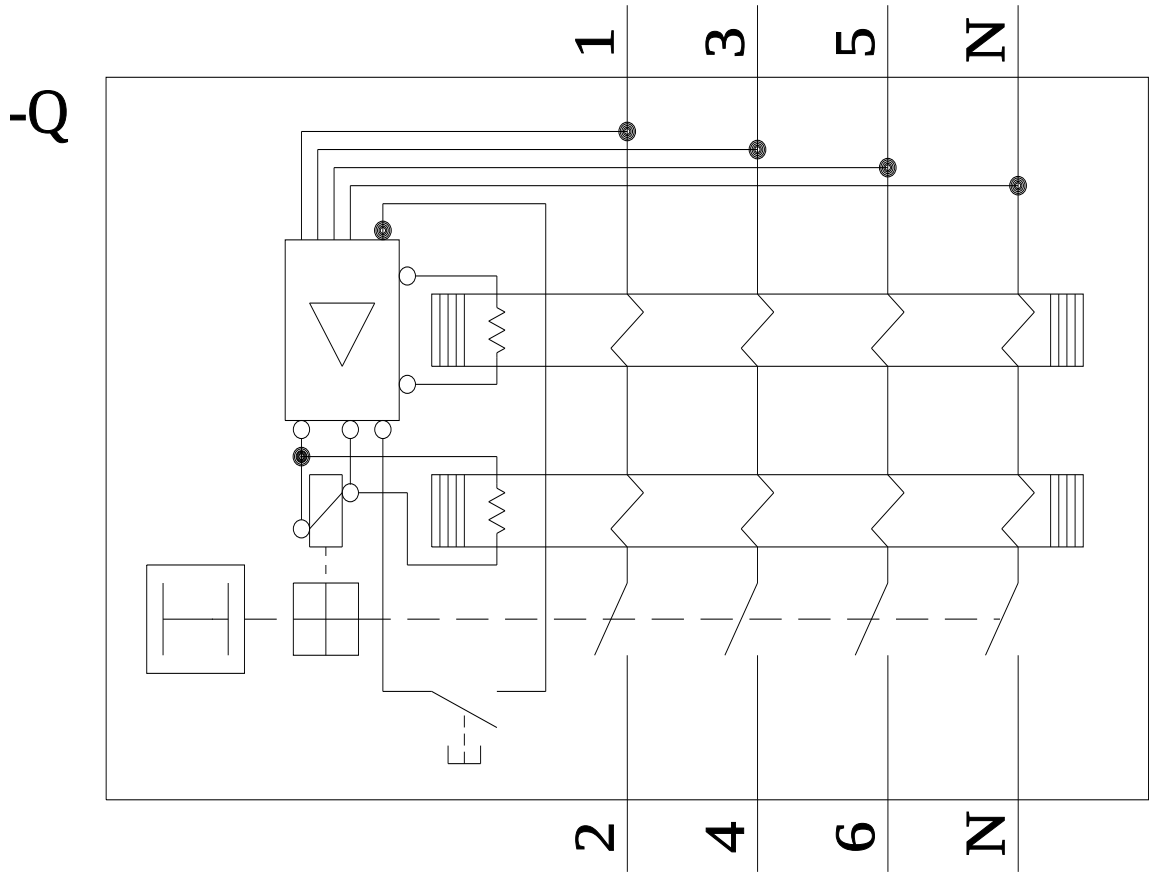
**Information on the packaging**
https://support.industry.siemens.com/cs/ww/en/view/109813875
**Information for data generation and storage**
https://support.industry.siemens.com/cs/ww/en/view/109995012
**Information- and Downloadcenter (Catalogs, Brochures,…)**
https://www.siemens.com/lowvoltage/catalogs
**Industry Mall (Online ordering system)**
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SV3644-4
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/5SV3644-4
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SV3644-4
**CAx-Online-Generator**
https://www.siemens.com/cax
**Tender specifications**
https://www.siemens.com/specifications
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