SIEMENS

## Data sheet 5SL6010-6

Siemens EcoTech

miniature circuit breaker 230 V, 6 kA, 1+N-pole, 1 MW, B10



| | |
|---|---|
| **Model** | |
| **product brand name** | SENTRON |
| **product designation** | Miniature circuit breaker |
| **design of the product** | Miniature circuit breaker compact |
| **General technical data** | |
| **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) at AC rated value** | 250 V |
| • **operational current** | |
| — **at 30 °C rated value** | 10 A |
| — **at 40 °C rated value** | 9.52 A |
| — **at 50 °C rated value** | 9.01 A |
| — **at 55 °C rated value** | 8.75 A |
| — **at 60 °C rated value** | 8.48 A |
| • **operational current at AC rated value** | 10 A |
| **Supply voltage** | |
| **supply voltage** | |
| • at AC | 230 V |
| • at DC rated value | 60 V |
| **value range of the supply voltage frequency** | 50/60 Hz |
| **operating voltage** | |
| • minimum | 24 V |
| • with single-phase operation at AC maximum | 250 V |
| **Protection class** | |
| **protection class IP** | IP20, with connected conductors |
| **Breaking Capacity** | |
| **switching capacity current** | |
| • according to EN 60898 rated value | 6 kA |
| **energy limitation class** | 3 |
| **Dissipation** | |


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| | |
|---|---|
| **power loss [W] for rated value of the current** | |
| ● **at AC in hot operating state per pole** | 1.9 W |
| **Suitability** | |
| **suitability for operation** | Residential buildings/infrastructure |
| **Product details** | |
| **product feature touch protection** | Yes |
| **product component** | |
| ● combined terminal top | No |
| ● combined terminal bottom | No |
| ● neutral conductor switching | Yes |
| **product feature properties for main switches in accordance with EN 60204-1** | No |
| **product feature halogen-free** | Yes |
| **product feature sealable** | Yes |
| **product feature silicon-free** | Yes |
| **product extension installable supplementary devices** | Yes |
| **Product function** | |
| **product function** | |
| ● communication function | No |
| ● other measurement function | No |
| **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 [lbf·in] with screw-type terminals** | |
| ● minimum | 10.6 lbf·in |
| ● maximum | 22.1 lbf·in |
| **tightening torque with screw-type terminals** | |
| ● minimum | 1.2 N·m |
| ● maximum | 2 N·m |
| **position of power supply cord** | Any |
| **Mechanical Design** | |
| **height** | 90 mm |
| **width** | 18 mm |
| **depth** | 76 mm |
| **installation depth** | 70 mm |
| **number of modular width units** | 1 |
| **fastening method** | DIN-rail mounting |
| **mounting position** | any |
| **Net Weight** | 121 g |
| **Environmental conditions** | |
| **standard** | IEC/EN60898-1, GB/T10963.1 |
| **vibration resistance according to IEC 60068-2-6** | Yes |
| **ambient temperature during operation** | |
| ● minimum | -25 °C |
| ● maximum | 60 °C |
| **ambient temperature during storage** | |
| ● minimum | -40 °C |
| ● maximum | 75 °C |
| **number of test cycles for environmental testing according to IEC 60068-2-30** | 6 |
| **Approvals Certificates** | |


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| Environment | | | | General Product Approval | |
|---|---|---|---|---|---|
| Environmental Confirmations | Environmental Confirmations | | | | |

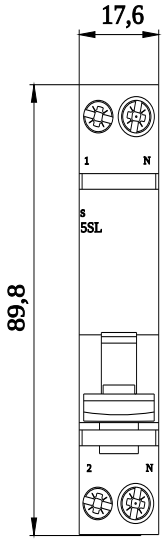
| General Product Approval | | | | | |
|---|---|---|---|---|---|
| | | | Confirmation | | |

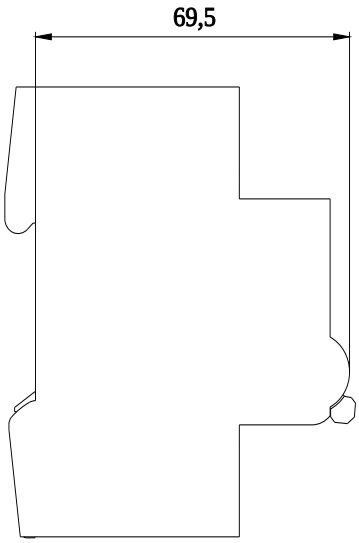
| Maritime application | other | | |
|---|---|---|---|
| | Confirmation | | Miscellaneous |

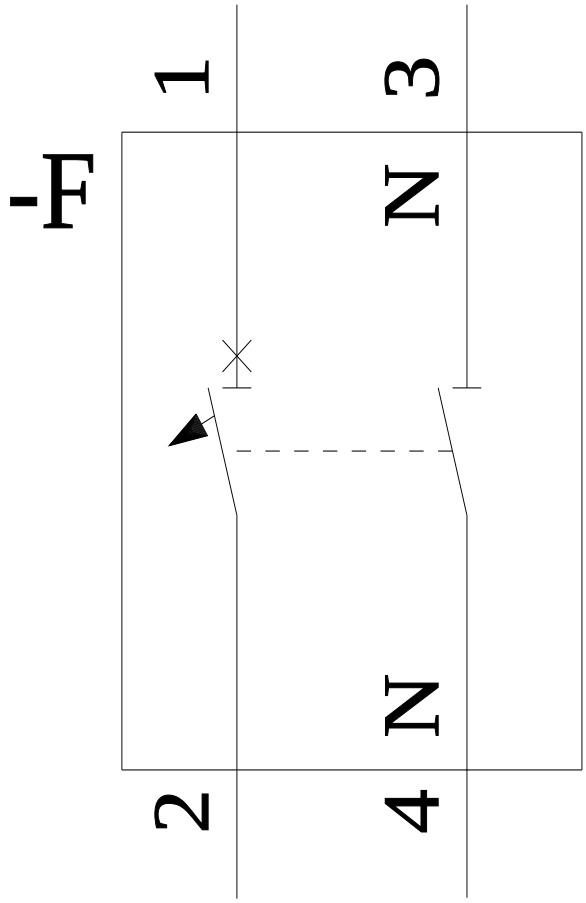
## Further information

**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=5SL6010-6
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/5SL6010-6
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL6010-6
**CAx-Online-Generator**
https://www.siemens.com/cax
**Tender specifications**
https://www.siemens.com/specifications
**Kennlinien**
https://curves.simaris.siemens.com/curves/5SL6010-6


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