SIEMENS

## Data sheet 5SY6250-8CC



Miniature circuit breaker 400 V 6kA, 2-pole, D, 50 A

| | |
|---|---|
| **Model** | |
| **product brand name** | SENTRON |
| **product designation** | Miniature circuit breaker |
| **General technical data** | |
| **number of poles** | 2 |
| **design of pole** | 2P |
| **tripping characteristic class** | D |
| **mechanical service life (operating cycles) typical** | 10 000 |
| **overvoltage category** | 3 |
| **degree of pollution** | 3 |
| **Voltage** | |
| **type of voltage of the operating voltage** | AC |
| **insulation voltage (Ui)** | |
| **• with multi-phase operation at AC rated value** | 440 V |
| **• operational current** | |
| **— at 40 °C rated value** | 47 A |
| **— at 50 °C rated value** | 43.8 A |
| **— at 55 °C rated value** | 42.1 A |
| **• operational current at AC rated value** | 50 A |
| **Supply voltage** | |
| **supply voltage** | |
| • at AC | 400 V |
| • at DC rated value | 60 V |
| **value range of the supply voltage frequency** | 50/60 Hz |
| operating voltage at DC rated value maximum | 72 V |
| **Protection class** | |
| **protection class IP** | IP20, with connected conductors |
| **Breaking Capacity** | |
| **switching capacity current** | |
| • according to EN 60898 rated value | 6 kA |
| **Dissipation** | |
| **power loss [W] for rated value of the current at AC in hot operating state per pole** | 3.8 W |
| **suitability for operation** | Infrastructure / Industry |
| **Product details** | |
| **product feature touch protection** | Yes |
| **product component** | |
| • combined terminal top | Yes |


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| | |
|---|---|
| ● combined terminal bottom | Yes |
| ● neutral conductor switching | No |
| **product feature properties for main switches in accordance with EN 60204-1** | Yes |
| **product feature halogen-free** | Yes |
| **product feature sealable** | Yes |
| **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 |
| **connectable conductor cross-section finely stranded with core end processing** | |
| ● minimum | 0.75 mm² |
| ● maximum | 25 mm² |
| **tightening torque [lbf·in] with screw-type terminals** | |
| ● minimum | 22 lbf·in |
| ● maximum | 31 lbf·in |
| **tightening torque with screw-type terminals** | |
| ● minimum | 2.5 N·m |
| ● maximum | 3.5 N·m |
| **position of power supply cord** | Any |
| **Mechanical Design** | |
| **height** | 90 mm |
| **width** | 36 mm |
| **depth** | 76 mm |
| **installation depth** | 70 mm |
| **number of modular width units** | 2 |
| **fastening method** | DIN rail |
| **mounting position** | any |
| **Net Weight** | 0.32 kg |
| **Environmental conditions** | |
| **influence of the surrounding temperature** | max. 95% RH up to 55°C |
| **standard** | IEC / EN 60898-1 |
| **vibration resistance according to IEC 60068-2-6** | ±1mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz and 60 m/s² at 35 Hz (4 sec) |
| **ambient temperature during operation** | |
| ● minimum | -25 °C |
| ● maximum | 55 °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 |

**Approvals Certificates**

| Environment | | General Product Approval | | |
|---|---|---|---|---|
| Environmental Confirmations | EPD | Environmental Confirmations | Miscellaneous | EAC Confirmation |

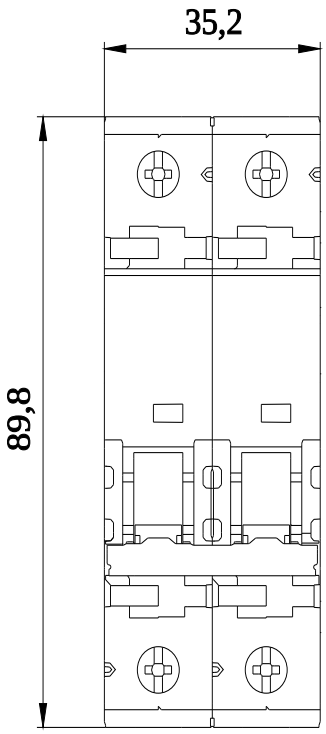
| General Product Approval | other |
|---|---|

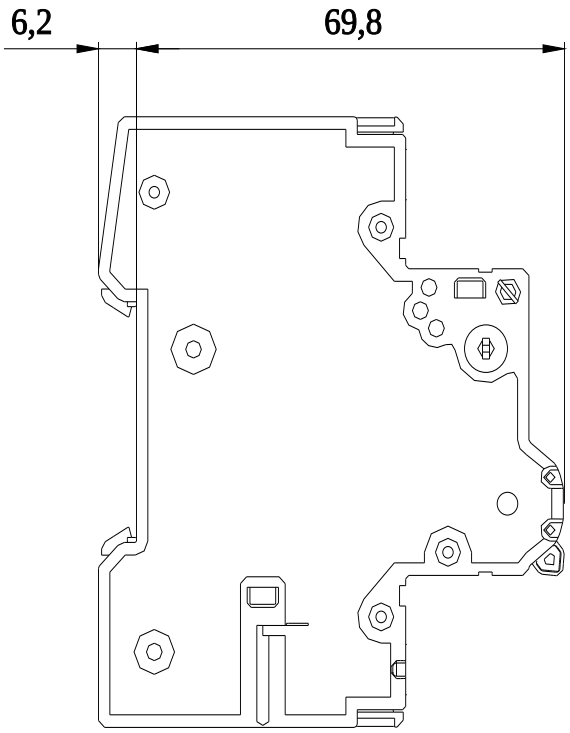

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Confirmation

## Further information

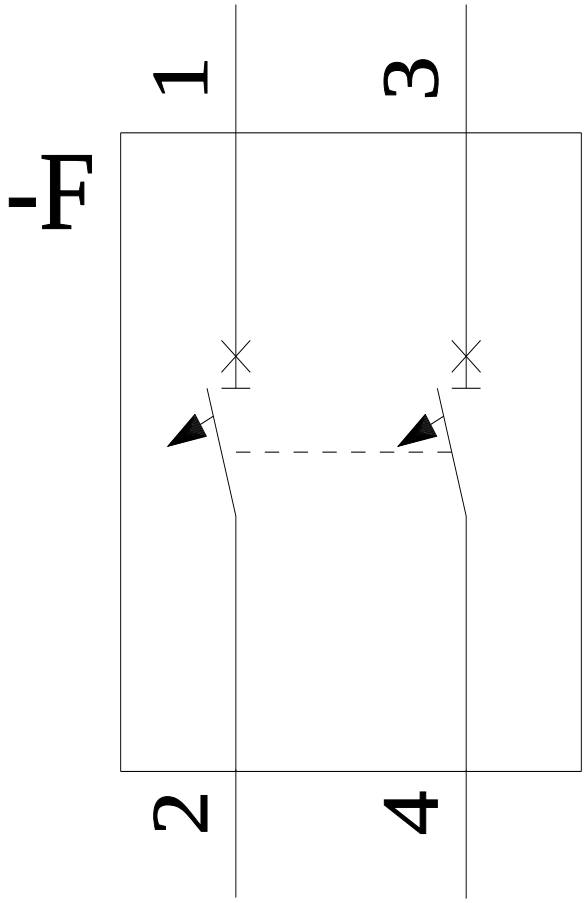
**Information on the packaging**
https://support.industry.siemens.com/cs/ww/en/view/109813875
**Information for data generation and storage**
https://support.industry.siemens.com/cs/ww/en/view/109995012
**Information- and Downloadcenter (Catalogs, Brochures,…)**
https://www.siemens.com/lowvoltage/catalogs
**Industry Mall (Online ordering system)**
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SY6250-8CC
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/5SY6250-8CC
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY6250-8CC
**CAx-Online-Generator**
https://www.siemens.com/cax
**Tender specifications**
https://www.siemens.com/specifications
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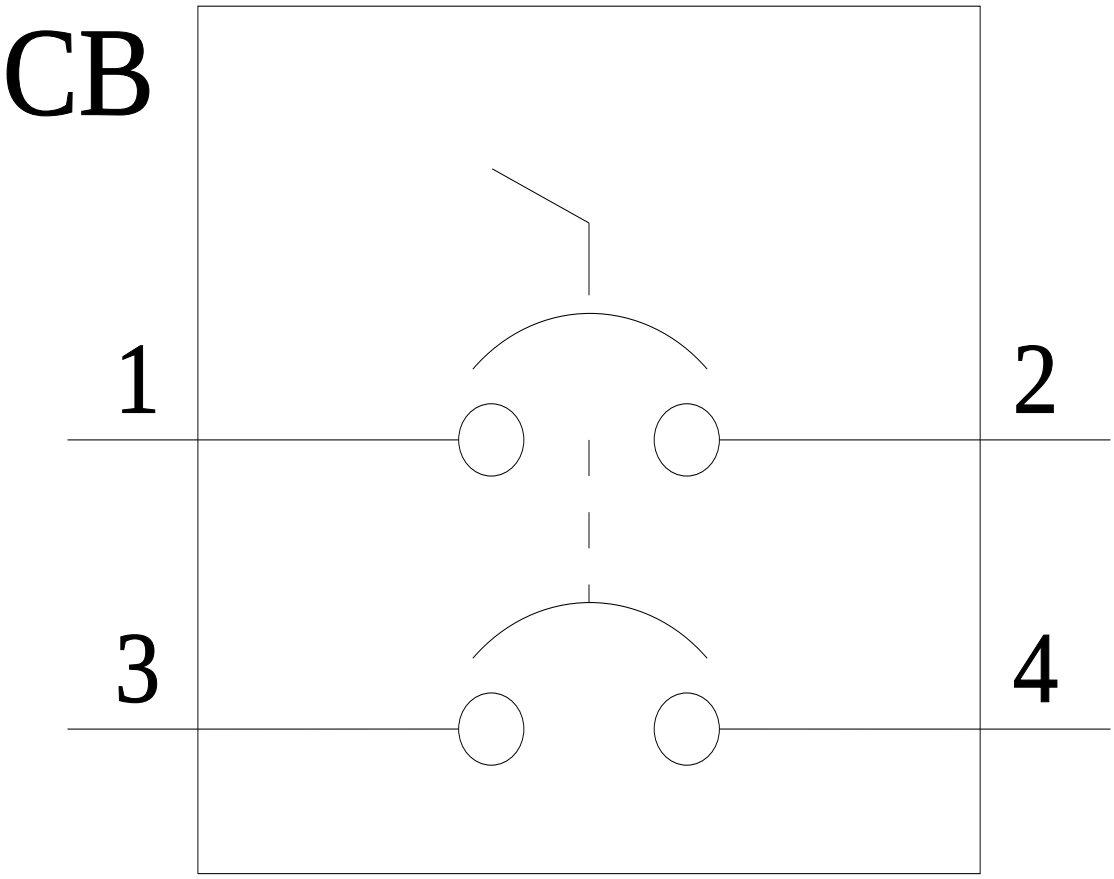




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