SIEMENS

## Data sheet 5SY4502-8



Figure similar

Miniature circuit breaker 230 V 10kA, 1+N-pole, D, 2A, D=70 mm

| | |
|---|---|
| **Model** | |
| product brand name | SENTRON |
| product designation | Miniature circuit breaker |
| **General technical data** | |
| number of poles | 2 |
| design of pole | 1P+N |
| tripping characteristic class | D |
| mechanical service life (operating cycles) typical | 10 000 |
| overvoltage category | III |
| degree of pollution | 3 |
| **Voltage** | |
| type of voltage of the operating voltage | AC |
| **insulation voltage (Ui)** | |
| ● with single-phase operation at AC rated value | 250 V |
| supply voltage with single-phase operation at AC rated value | 230 V |
| operational current | |
| ● at 40 °C rated value | 1.9 A |
| ● at 50 °C rated value | 1.8 A |
| ● at 55 °C rated value | 1.75 A |
| ● at 60 °C rated value | 1.7 A |
| ● at AC rated value | 2 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 at DC rated value maximum | 72 V |
| **Protection class** | |
| protection class IP | IP20, with connected conductors |
| **Breaking Capacity** | |
| switching capacity current | |
| ● at DC according to IEC 60947-2 rated value | 15 kA |
| ● according to EN 60898 rated value | 10 kA |
| ● according to IEC 60947-2 rated value | 35 kA |
| **Dissipation** | |
| power loss [W] for rated value of the current at AC in hot operating state per pole | 1.2 W |
| suitability for operation | Infrastructure / Industry |
| **Product details** | |


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| | |
|---|---|
| product feature touch protection | Yes |
| product component | |
| ● combined terminal top | Yes |
| ● combined terminal bottom | Yes |
| ● neutral conductor switching | Yes |
| **product feature** | |
| ● properties for main switches in accordance with EN 60204-1 | Yes |
| ● halogen-free | Yes |
| ● sealable | Yes |
| ● silicon-free | Yes |
| product extension installable supplementary devices | Yes |
| **Product function** | |
| set values setting current (Ii) for I-tripping | 13,5 |
| reference value setting current (Ii) for I-tripping | x In |
| **Short circuit** | |
| short-circuit current breaking capacity (Icn) | |
| ● at AC according to UL 1077 and CSA C22.2 No.235 | 5 kA |
| **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 |
| AWG number as coded connectable conductor cross section | |
| ● minimum | 18 |
| ● maximum | 4 |
| 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 | Quick assembly system |
| mounting position | any |
| net weight | 317 g |
| **Environmental conditions** | |
| standard | IEC / EN 60898-1, IEC / EN 60947-2 / UL1077 |
| vibration resistance according to IEC 60068-2-6 | ±1mm at 5 to 25Hz; 50m/s² at 25 to 150Hz |
| ambient temperature during operation | |
| ● minimum | -40 °C |
| ● maximum | 70 °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** | |
| **General Product Approval** | |


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Confirmation

| General Product Approval | | EMV | Test Certificates | |
|---|---|---|---|---|
| Miscellaneous | | | Special Test Certific-ate | Miscellaneous |

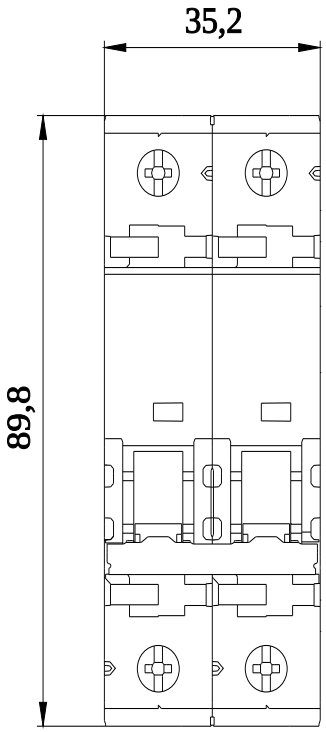
| Marine / Shipping | | | | | other |
|---|---|---|---|---|---|
| | | | | | Confirmation |

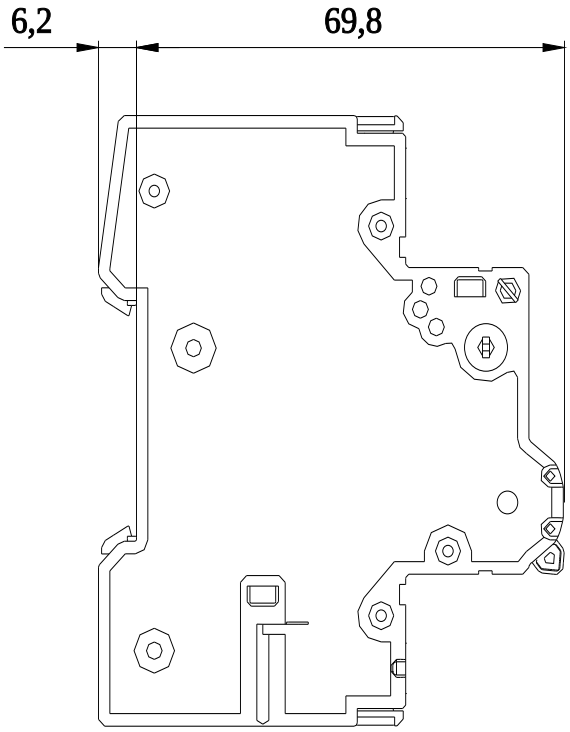
| other | Railway | | Environment | |
|---|---|---|---|---|
| Miscellaneous | Special Test Certific-ate | Confirmation | Environmental Con-firmations | Environmental Con-firmations |

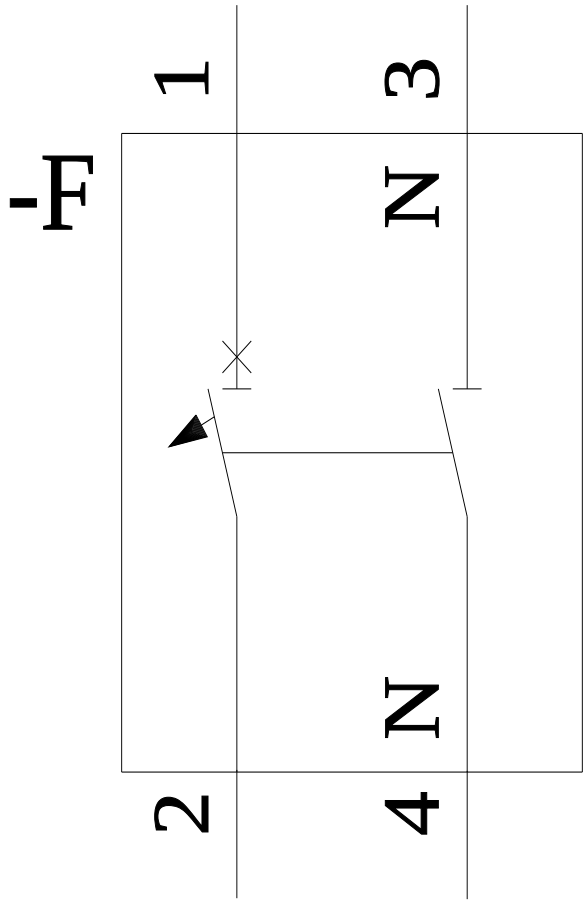
## Further information

**Information on the packaging**
https://support.industry.siemens.com/cs/ww/en/view/109813875
**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=5SY4502-8
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/5SY4502-8
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4502-8
**CAx-Online-Generator**
http://www.siemens.com/cax
**Tender specifications**
http://www.siemens.com/specifications


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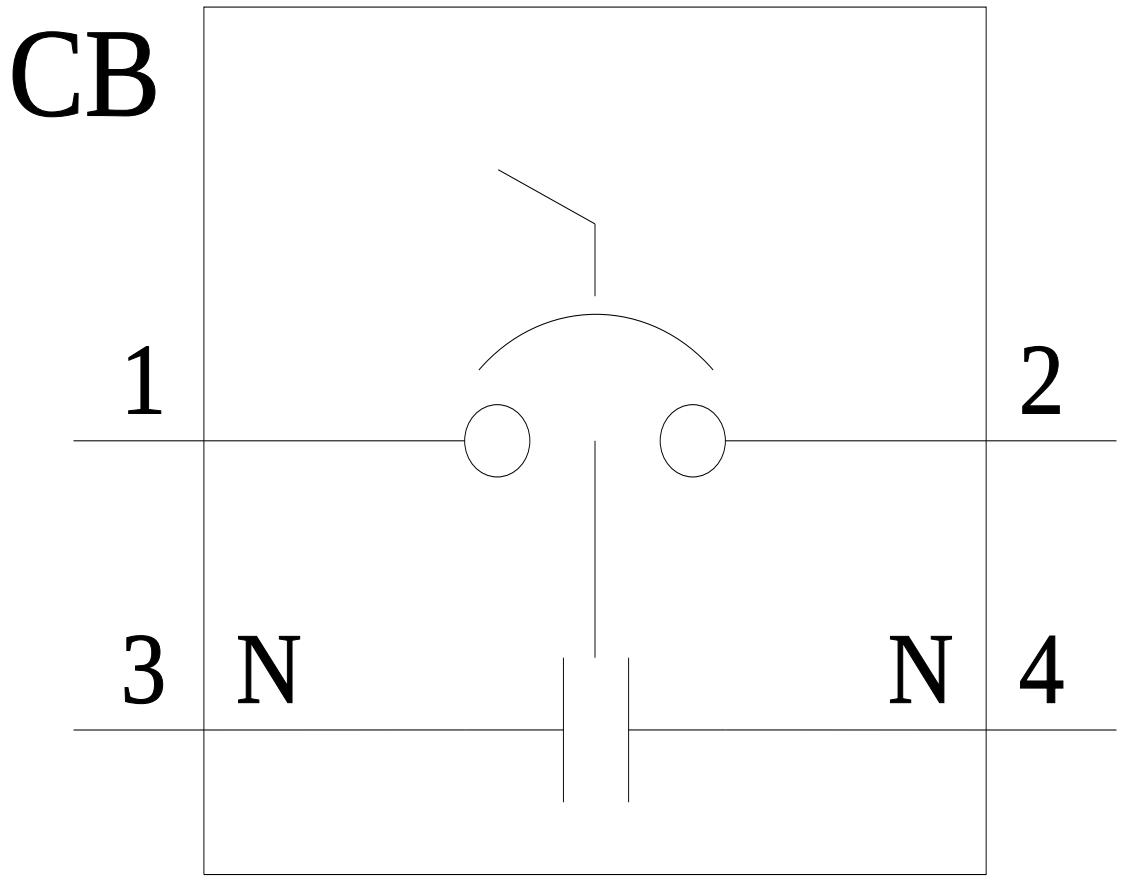




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