



Miniature circuit breaker 400 V 10kA, 2-pole, C, 30 A, D=70 mm

| Model  |  |
|--|--|
| product brand name   | SENTRON  |
| product designation  | Miniature circuit breaker                        |
| General technical data   |  |
| number of poles  | 2  |
| design of pole   | 2P   |
| tripping characteristic class  | C  |
| 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)  |  |
| <ul style="list-style-type: none"> <li>with single-phase operation at AC rated value</li> <li>with multi-phase operation at AC rated value</li> </ul>  | 440 V<br>440 V                                   |
| <ul style="list-style-type: none"> <li>operational current <ul style="list-style-type: none"> <li>— at 40 °C rated value</li> <li>— at 50 °C rated value</li> <li>— at 55 °C rated value</li> <li>— at 60 °C rated value</li> </ul> </li> <li>operational current at AC rated value</li> </ul> | 28.56 A<br>27.06 A<br>26.25 A<br>25.44 A<br>30 A |
| Supply voltage   |  |
| supply voltage   |  |
| <ul style="list-style-type: none"> <li>at AC</li> <li>at DC rated value</li> </ul>   | 400 V<br>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   |  |
| <ul style="list-style-type: none"> <li>at DC according to IEC 60947-2 rated value</li> <li>according to EN 60898 rated value</li> <li>according to IEC 60947-2 rated value</li> </ul>  | 15 kA<br>10 kA<br>20 kA                          |
| energy limitation class  | 3  |
| Dissipation  |  |
| power loss [W] for rated value of the current at AC in hot operating state per pole  | 2.3 W  |

|   |  |
|---|--|
| <b>suitability for operation</b>  | Infrastructure / Industry  |
| <b>Product details</b>  |  |
| <b>product feature touch protection</b>   | Yes  |
| <b>product component</b>  |  |
| • combined terminal top   | Yes  |
| • combined terminal bottom  | Yes  |
| • neutral conductor switching   | No   |
| <b>product feature properties for main switches in accordance with EN 60204-1</b>   | Yes  |
| <b>product feature halogen-free</b>   | Yes  |
| <b>product feature sealable</b>   | Yes  |
| <b>product feature silicon-free</b>   | Yes  |
| <b>product extension installable supplementary devices</b>                          | Yes  |
| <b>Product function</b>   |  |
| <b>set values setting current (Ii) for I-tripping</b>                               | 6,5  |
| <b>reference value setting current (Ii) for I-tripping</b>                          | x I <sub>n</sub>   |
| <b>Short circuit</b>  |  |
| <b>short-circuit current breaking capacity (I<sub>cn</sub>)</b>                     |  |
| • at AC according to UL 1077 and CSA C22.2 No.235                                   | 5 kA   |
| <b>Connections</b>  |  |
| <b>connectable conductor cross-section solid</b>                                    |  |
| • minimum   | 0.75 mm <sup>2</sup>   |
| • maximum   | 35 mm <sup>2</sup>   |
| <b>connectable conductor cross-section stranded</b>                                 |  |
| • minimum   | 0.75 mm <sup>2</sup>   |
| • maximum   | 35 mm <sup>2</sup>   |
| <b>connectable conductor cross-section finely stranded with core end processing</b> |  |
| • minimum   | 0.75 mm <sup>2</sup>   |
| • maximum   | 25 mm <sup>2</sup>   |
| <b>AWG number as coded connectable conductor cross section</b>                      |  |
| • minimum   | 18   |
| • maximum   | 4  |
| <b>tightening torque [lbf-in] with screw-type terminals</b>                         |  |
| • minimum   | 22 lbf-in  |
| • maximum   | 31 lbf-in  |
| <b>tightening torque with screw-type terminals</b>                                  |  |
| • minimum   | 2.5 N·m  |
| • maximum   | 3.5 N·m  |
| <b>position of power supply cord</b>  | Any  |
| <b>Mechanical Design</b>  |  |
| <b>height</b>   | 90 mm  |
| <b>width</b>  | 36 mm  |
| <b>depth</b>  | 76 mm  |
| <b>installation depth</b>   | 70 mm  |
| <b>number of modular width units</b>  | 2  |
| <b>fastening method</b>   | DIN rail   |
| <b>mounting position</b>  | any  |
| <b>Net Weight</b>   | 316 g  |
| <b>Environmental conditions</b>   |  |
| <b>influence of the surrounding temperature</b>                                     | max. 95% RH up to 55°C, max. 55% RH up to 70°C, max. 35% RH up to 75°C |
| <b>standard</b>   | IEC / EN 60898-1, IEC / EN 60947-2 / UL1077                            |
| <b>vibration resistance according to IEC 60068-2-6</b>                              | ±1mm at 5 to 25Hz; 50m/s <sup>2</sup> at 25 to 150Hz                   |
| <b>ambient temperature during operation</b>   |  |
| • minimum   | -40 °C   |
| • maximum   | 70 °C  |
| <b>ambient temperature during storage</b>   |  |
| • minimum   | -40 °C   |

|   |       |
|---|-------|
| • maximum   | 75 °C |
| number of test cycles for environmental testing according to IEC 60068-2-30 | 6     |

| Environmental footprint                                |             |
|--|-------------|
| Environmental Product Declaration(EPD)                 | Yes         |
| global warming potential [CO2 eq] total                | 16.8 kg     |
| global warming potential [CO2 eq] during manufacturing | 1.13 kg     |
| global warming potential [CO2 eq] during operation     | 15.7 kg     |
| global warming potential [CO2 eq] after end of life    | -0.00046 kg |

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**General Product Approval**



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[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=5SY4230-7>

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<https://support.industry.siemens.com/cs/ww/en/ps/5SY4230-7>

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY4230-7](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4230-7)

**CAX-Online-Generator**

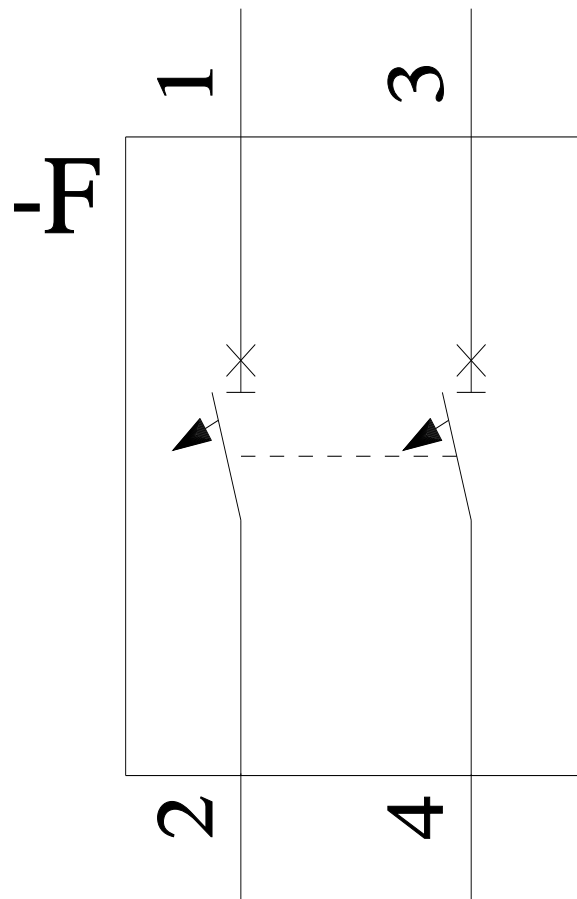
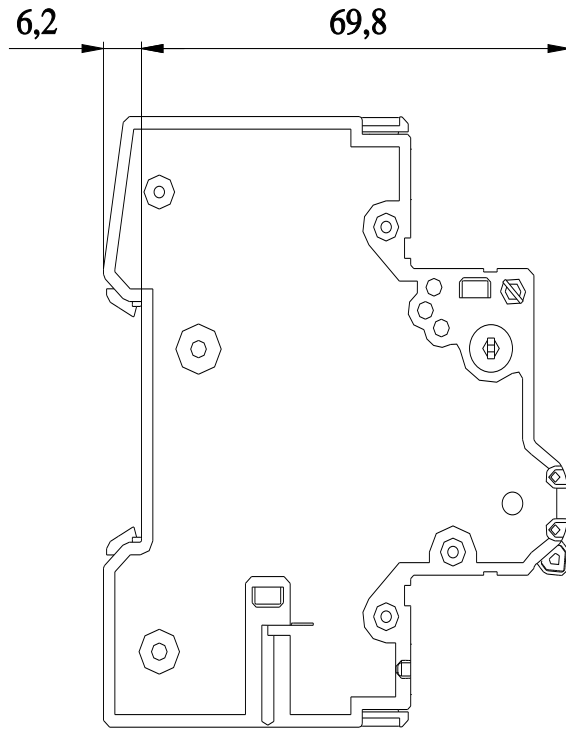
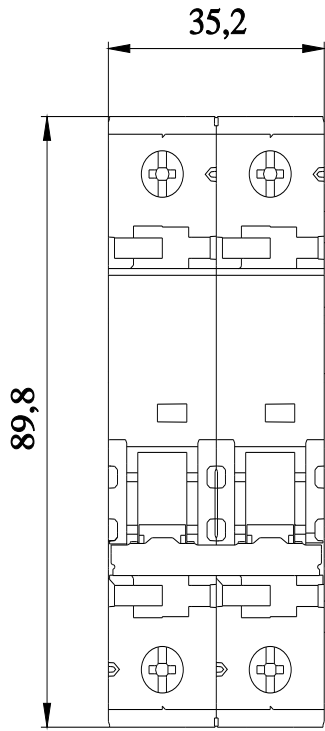
<https://www.siemens.com/cax>

**Tender specifications**

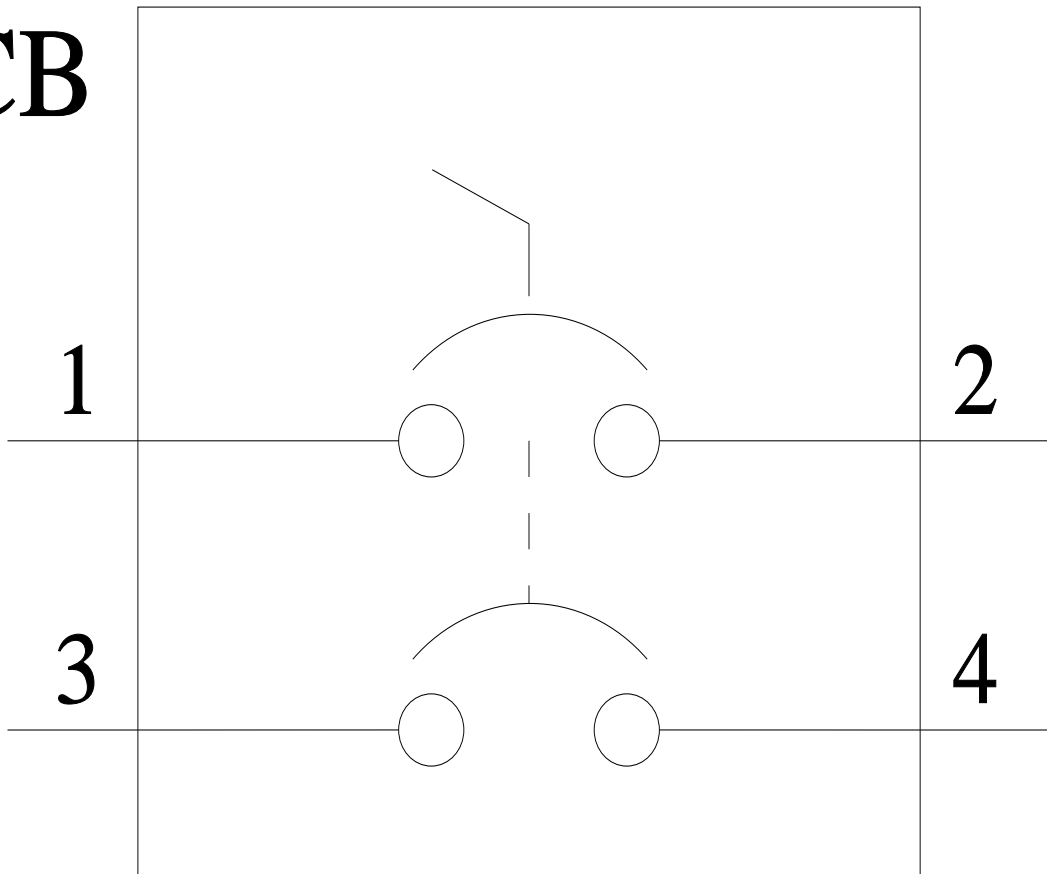
<https://www.siemens.com/specifications>

**Characteristic curves**

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="HAUPT"></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP="HAUPT"></mmp_prod_no>)



# CB



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