



Miniature circuit breaker 230/400 V 6kA, 1-pole, C, 6A

| Model  |   |
|--|---|
| product brand name   | SENTRON   |
| product designation  | Miniature circuit breaker   |
| General technical data   |   |
| number of poles  | 1   |
| design of pole   | 1P  |
| tripping characteristic class  | C   |
| mechanical service life (operating cycles) typical   | 10 000  |
| overvoltage category   | 3   |
| degree of pollution  | 2   |
| Voltage  |   |
| type of voltage of the operating voltage   | AC  |
| type of voltage  | Use only in alternating current or direct current circuits. Mixed use is not permitted.                                       |
| 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>  | 250 V<br>440 V  |
| <ul style="list-style-type: none"> <li>operational current                             <ul style="list-style-type: none"> <li>at 30 °C rated value</li> <li>at 40 °C rated value</li> <li>at 55 °C rated value</li> </ul> </li> <li>operational current at AC rated value</li> </ul> | 6 A<br>5.64 A<br>5.04 A<br>6 A  |
| Supply voltage   |   |
| supply voltage at AC   | 400 V   |
| value range of the supply voltage frequency  | 50/60 Hz  |
| operating voltage  |   |
| <ul style="list-style-type: none"> <li>with multi-phase operation at AC maximum</li> <li>at DC rated value maximum</li> <li></li> </ul>  | 440 V<br>62.5 V<br>The operational voltage 62,5V DC/pole takes into account a battery charging voltage with peak value of 72V |
| Protection class   |   |
| protection class IP  | IP20, with connected conductors   |
| Breaking Capacity  |   |
| switching capacity current   |   |
| <ul style="list-style-type: none"> <li>according to EN 60898 rated value</li> <li>according to IEC 60947-2 rated value</li> </ul>  | 6 kA<br>6 kA  |
| energy limitation class  | 3   |
| Dissipation  |   |

|   |                                      |
|---|--------------------------------------|
| power loss [W] for rated value of the current at AC in hot operating state per pole | 0.7 W                                |
| <b>suitability for operation</b>  | Residential buildings/infrastructure |

### Product details

|  |     |
|--|-----|
| <b>product feature touch protection</b>                    | Yes |
| product component neutral conductor switching              | No  |
| <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 |

### Connections

|   |                      |
|---|----------------------|
| <b>connectable conductor cross-section solid</b>                                    |                      |
| • minimum   | 0.75 mm <sup>2</sup> |
| • maximum   | 25 mm <sup>2</sup>   |
| <b>connectable conductor cross-section stranded</b>                                 |                      |
| • minimum   | 0.75 mm <sup>2</sup> |
| • maximum   | 25 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>tightening torque with screw-type terminals</b>                                  |                      |
| • minimum   | 2.5 N·m              |
| • maximum   | 3 N·m                |

### Mechanical Design

|                                      |       |
|--------------------------------------|-------|
| <b>height</b>                        | 90 mm |
| <b>width</b>                         | 18 mm |
| <b>depth</b>                         | 76 mm |
| <b>installation depth</b>            | 70 mm |
| <b>number of modular width units</b> | 1     |
| <b>mounting position</b>             | any   |
| <b>Net Weight</b>                    | 130 g |

### Environmental conditions

|   |        |
|---|--------|
| <b>ambient temperature during operation</b> |        |
| • minimum                                   | -25 °C |
| • maximum                                   | 45 °C  |
| <b>ambient temperature during storage</b>   |        |
| • minimum                                   | -40 °C |
| • maximum                                   | 75 °C  |

### Environmental footprint

|  |           |
|--|-----------|
| Environmental Product Declaration(EPD)                 | Yes       |
| global warming potential [CO2 eq] total                | 28.2 kg   |
| global warming potential [CO2 eq] during manufacturing | 0.718 kg  |
| global warming potential [CO2 eq] during operation     | 27.5 kg   |
| global warming potential [CO2 eq] after end of life    | -0.057 kg |

### Approvals Certificates

#### General Product Approval



[Confirmation](#)



[Miscellaneous](#)

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



[Confirmation](#)



[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=5SL6106-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL6106-7>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SL6106-7](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL6106-7)

### CAX-Online-Generator

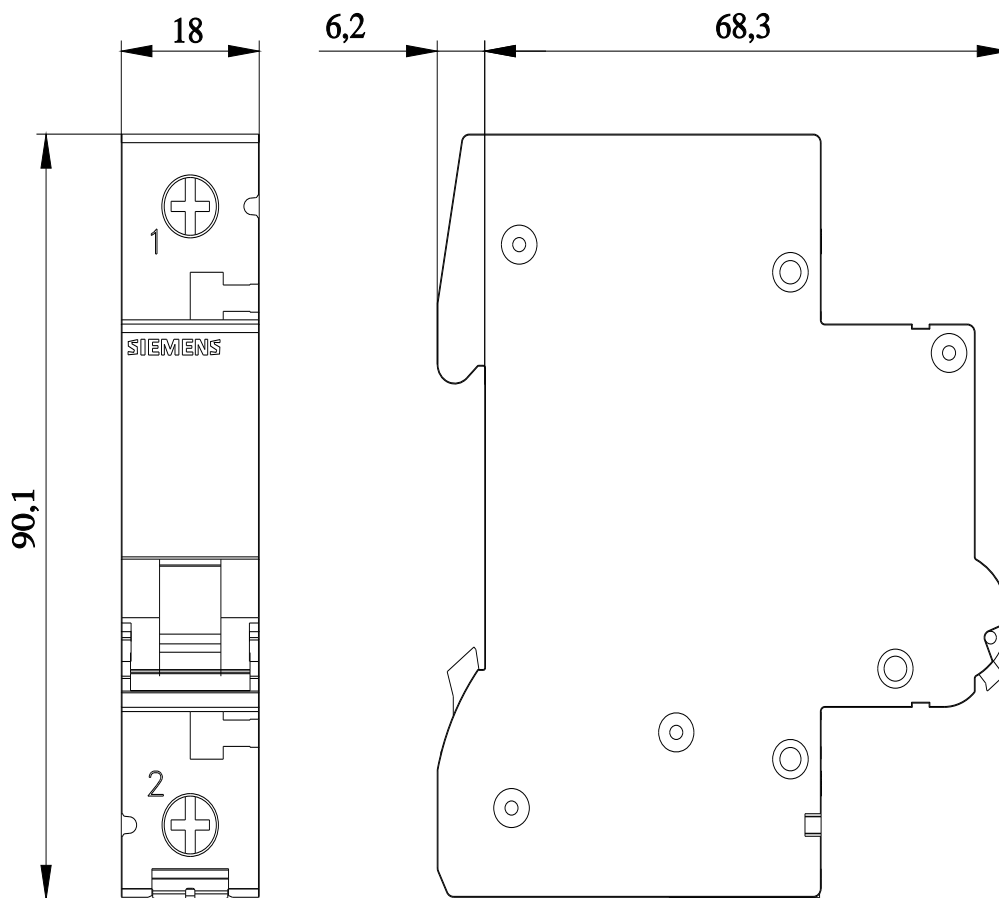
<https://www.siemens.com/cax>

### 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=)





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