



Miniature circuit breaker, 1 MW 230V, 6kA, 1P+N, C, 6A

| 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  | 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                                   |
| insulation voltage (U <sub>i</sub> ) at AC rated value   | 250 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> </ul> </li> <li>• operational current at AC rated value</li> </ul> | 6 A<br>5.76 A<br>6 A                 |
| Supply voltage   |                                      |
| supply voltage <ul style="list-style-type: none"> <li>• at AC</li> </ul>   | 230 V                                |
| value range of the supply voltage frequency  | 50/60 Hz                             |
| operating voltage <ul style="list-style-type: none"> <li>• minimum</li> <li>• with single-phase operation at AC maximum</li> </ul>   | 24 V<br>250 V                        |
| 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> </ul>   | 6 kA                                 |
| energy limitation class  | 3                                    |
| Dissipation  |                                      |
| power loss [W] for rated value of the current <ul style="list-style-type: none"> <li>• at AC in hot operating state per pole</li> </ul>  | 1.4 W                                |
| Suitability  |                                      |
| suitability for operation  | Residential buildings/infrastructure |
| Product details  |                                      |
| product feature touch protection   | Yes                                  |
| product component  |                                      |

|   |     |
|---|-----|
| <ul style="list-style-type: none"> <li>combined terminal top</li> </ul>           | No  |
| <ul style="list-style-type: none"> <li>combined terminal bottom</li> </ul>        | No  |
| <ul style="list-style-type: none"> <li>neutral conductor switching</li> </ul>     | Yes |
| <b>product feature properties for main switches in accordance with EN 60204-1</b> | 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 |

#### Product function

|  |    |
|--|----|
| <b>product function</b>  |    |
| <ul style="list-style-type: none"> <li>communication function</li> </ul>     | No |
| <ul style="list-style-type: none"> <li>other measurement function</li> </ul> | No |

#### Connections

|   |                      |
|---|----------------------|
| <b>connectable conductor cross-section solid</b>                                    |                      |
| <ul style="list-style-type: none"> <li>minimum</li> </ul>                           | 0.75 mm <sup>2</sup> |
| <ul style="list-style-type: none"> <li>maximum</li> </ul>                           | 16 mm <sup>2</sup>   |
| <b>connectable conductor cross-section stranded</b>                                 |                      |
| <ul style="list-style-type: none"> <li>minimum</li> </ul>                           | 0.75 mm <sup>2</sup> |
| <ul style="list-style-type: none"> <li>maximum</li> </ul>                           | 16 mm <sup>2</sup>   |
| <b>connectable conductor cross-section finely stranded with core end processing</b> |                      |
| <ul style="list-style-type: none"> <li>minimum</li> </ul>                           | 0.75 mm <sup>2</sup> |
| <ul style="list-style-type: none"> <li>maximum</li> </ul>                           | 10 mm <sup>2</sup>   |
| <b>tightening torque [lbf-in] with screw-type terminals</b>                         |                      |
| <ul style="list-style-type: none"> <li>minimum</li> </ul>                           | 17.7 lbf-in          |
| <ul style="list-style-type: none"> <li>maximum</li> </ul>                           | 22.1 lbf-in          |
| <b>tightening torque with screw-type terminals</b>                                  |                      |
| <ul style="list-style-type: none"> <li>minimum</li> </ul>                           | 2 N·m                |
| <ul style="list-style-type: none"> <li>maximum</li> </ul>                           | 2.5 N·m              |
| <b>position of power supply cord</b>  | Any                  |

#### 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>fastening method</b>              | DIN rail |
| <b>mounting position</b>             | any      |
| <b>Net Weight</b>                    | 118 g    |

#### Environmental conditions

|  |   |
|--|---|
| <b>standard</b>  | IEC/EN60898-1, GB/T10963.1                    |
| <b>vibration resistance according to IEC 60068-2-6</b>                             | Yes   |
| <b>ambient temperature during operation</b>  |   |
| <ul style="list-style-type: none"> <li>minimum</li> </ul>                          | -25 °C  |
| <ul style="list-style-type: none"> <li>maximum</li> </ul>                          | 60 °C   |
| <b>ambient temperature during operation</b>  | -25...45°C: max. 85%rF. 45...60°C: max. 43%rF |
| <b>ambient temperature during storage</b>  |   |
| <ul style="list-style-type: none"> <li>minimum</li> </ul>                          | -40 °C  |
| <ul style="list-style-type: none"> <li>maximum</li> </ul>                          | 75 °C   |
| <b>number of test cycles for environmental testing according to IEC 60068-2-30</b> | 6   |

#### Approvals Certificates

|                    |                                 |
|--------------------|---------------------------------|
| <b>Environment</b> | <b>General Product Approval</b> |
|--------------------|---------------------------------|



[Environmental Conformations](#)



|                          |                      |       |
|--------------------------|----------------------|-------|
| General Product Approval | Maritime application | other |
|--------------------------|----------------------|-------|



#### 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=5SN6006-7CN>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SN6006-7CN>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SN6006-7CN](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SN6006-7CN)

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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