



Miniature circuit breaker 230/400 V 10kA, 1-pole, C, 8A

| 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   | 3                               |
| Voltage   |                                 |
| type of voltage of the operating voltage  | AC                              |
| insulation voltage (Ui)   |                                 |
| • with single-phase operation at AC rated value                                     | 250 V                           |
| • with multi-phase operation at AC rated value                                      | 440 V                           |
| supply voltage with single-phase operation at AC rated value                        | 230 V                           |
| • operational current   |                                 |
| — at 40 °C rated value  | 7.35 A                          |
| — at 50 °C rated value  | 6.63 A                          |
| — at 55 °C rated value  | 6.25 A                          |
| • operational current at AC rated value   | 8 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  |                                 |
| • according to EN 60898 rated value   | 10 kA                           |
| energy limitation class   | 3                               |
| Dissipation   |                                 |
| power loss [W] for rated value of the current at AC in hot operating state per pole | 0.9 W                           |
| suitability for operation   | Infrastructure / Industry       |

| Product details   |  |
|---|--|
| product feature touch protection  | Yes  |
| product component   |  |
| <ul style="list-style-type: none"> <li>combined terminal top</li> </ul>       | Yes  |
| <ul style="list-style-type: none"> <li>combined terminal bottom</li> </ul>    | Yes  |
| <ul style="list-style-type: none"> <li>neutral conductor switching</li> </ul> | 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                                     |  |
| <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>                     | 35 mm <sup>2</sup>   |
| connectable conductor cross-section stranded                                  |  |
| <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>                     | 35 mm <sup>2</sup>   |
| connectable conductor cross-section finely stranded with core end processing  |  |
| <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>                     | 25 mm <sup>2</sup>   |
| tightening torque [lbf-in] with screw-type terminals                          |  |
| <ul style="list-style-type: none"> <li>minimum</li> </ul>                     | 22 lbf-in  |
| <ul style="list-style-type: none"> <li>maximum</li> </ul>                     | 31 lbf-in  |
| tightening torque with screw-type terminals                                   |  |
| <ul style="list-style-type: none"> <li>minimum</li> </ul>                     | 2.5 N·m  |
| <ul style="list-style-type: none"> <li>maximum</li> </ul>                     | 3.5 N·m  |
| position of power supply cord   | Any  |
| Mechanical Design   |  |
| height  | 90 mm  |
| width   | 18 mm  |
| depth   | 76 mm  |
| installation depth  | 70 mm  |
| number of modular width units   | 1  |
| fastening method  | DIN rail   |
| mounting position   | any  |
| Net Weight  | 155 g  |
| 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/s <sup>2</sup> at 25 to 150 Hz and 60 m/s <sup>2</sup> at 35 Hz (4 sec) |
| ambient temperature during operation  |  |
| <ul style="list-style-type: none"> <li>minimum</li> </ul>                     | -25 °C   |
| <ul style="list-style-type: none"> <li>maximum</li> </ul>                     | 55 °C  |
| ambient temperature during storage  |  |
| <ul style="list-style-type: none"> <li>minimum</li> </ul>                     | -40 °C   |
| <ul style="list-style-type: none"> <li>maximum</li> </ul>                     | 75 °C  |
| number of test cycles for environmental testing according to IEC 60068-2-30   | 28   |
| Approvals Certificates  |  |
| Environment   | General Product Approval   |

[Environmental Confirmations](#)



[Environmental Confirmations](#)

[Miscellaneous](#)



[Confirmation](#)



[CCS \(China Classification Society\)](#)



[Confirmation](#)

[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=5SY4108-7CC>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY4108-7CC>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY4108-7CC](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4108-7CC)

##### 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=)





