



Miniature circuit breaker 400 V 10kA, 2-pole, C, 8A, 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                                                                | 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                                     | 440 V                           |
| • with multi-phase operation at AC rated value                                      | 440 V                           |
| supply voltage with single-phase operation at AC rated value                        | 230 V                           |
| Supply voltage                                                                      |                                 |
| supply voltage                                                                      |                                 |
| • at AC rated value                                                                 | 400 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 |
| Switching 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                                              | 20 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                           |
| Current                                                                             |                                 |
| operational current                                                                 |                                 |
| • at 35 °C rated value                                                              | 8 A                             |
| • at 40 °C rated value                                                              | 7.51 A                          |
| • at 45 °C rated value                                                              | 7.26 A                          |
| • at 50 °C rated value                                                              | 6.99 A                          |

|                                                                                                                                                                                    |                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• at 55 °C rated value</li> <li>• at 60 °C rated value</li> <li>• at AC rated value</li> </ul>                                              | 6.72 A<br>6.43 A<br>8 A                              |
| suitability for operation                                                                                                                                                          | Mechanical engineering / industry                    |
| <b>Product details</b>                                                                                                                                                             |                                                      |
| product component                                                                                                                                                                  |                                                      |
| <ul style="list-style-type: none"> <li>• combined terminal top</li> <li>• combined terminal bottom</li> <li>• neutral conductor switching</li> </ul>                               | Yes<br>Yes<br>No                                     |
| product feature                                                                                                                                                                    |                                                      |
| <ul style="list-style-type: none"> <li>• properties for main switches in accordance with EN 60204-1</li> <li>• halogen-free</li> <li>• sealable</li> <li>• silicon-free</li> </ul> | Yes<br>Yes<br>Yes<br>Yes                             |
| product extension installable supplementary devices                                                                                                                                | Yes                                                  |
| <b>Short circuit</b>                                                                                                                                                               |                                                      |
| short-circuit current breaking capacity (I <sub>cn</sub> )                                                                                                                         |                                                      |
| <ul style="list-style-type: none"> <li>• at AC according to UL 1077 and CSA C22.2 No.235</li> </ul>                                                                                | 5 kA                                                 |
| <b>Connections</b>                                                                                                                                                                 |                                                      |
| connectable conductor cross-section solid                                                                                                                                          |                                                      |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                                                                                     | 0.75 mm <sup>2</sup><br>35 mm <sup>2</sup>           |
| connectable conductor cross-section stranded                                                                                                                                       |                                                      |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                                                                                     | 0.75 mm <sup>2</sup><br>35 mm <sup>2</sup>           |
| connectable conductor cross-section finely stranded with core end processing                                                                                                       |                                                      |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                                                                                     | 0.75 mm <sup>2</sup><br>25 mm <sup>2</sup>           |
| AWG number as coded connectable conductor cross section                                                                                                                            |                                                      |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                                                                                     | 18<br>4                                              |
| tightening torque [lbf-in] with screw-type terminals                                                                                                                               |                                                      |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                                                                                     | 22 lbf-in<br>31 lbf-in                               |
| tightening torque with screw-type terminals                                                                                                                                        |                                                      |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                                                                                     | 2.5 N·m<br>3.5 N·m                                   |
| position of power supply cord                                                                                                                                                      | Any                                                  |
| <b>Mechanical Design</b>                                                                                                                                                           |                                                      |
| 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                                                                                                                                                                         | 308 g                                                |
| <b>Environmental conditions</b>                                                                                                                                                    |                                                      |
| influence of the surrounding temperature                                                                                                                                           | max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C |
| standard                                                                                                                                                                           | IEC / EN 60898-1, IEC / EN 60947-2 / UL1077          |
| vibration resistance according to IEC 60068-2-6                                                                                                                                    | ±1mm at 5 to 25Hz; 50m/s <sup>2</sup> at 25 to 150Hz |
| ambient temperature during operation                                                                                                                                               |                                                      |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                                                                                     | -40 °C<br>70 °C                                      |
| ambient temperature during storage                                                                                                                                                 |                                                      |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                                                                                     | -40 °C<br>75 °C                                      |
| number of test cycles for environmental testing according to IEC 60068-2-30                                                                                                        | 6                                                    |
| <b>General Product Approval</b>                                                                                                                                                    |                                                      |

[Confirmation](#)



[Miscellaneous](#)

General Product Approval

EMC

Declaration of Conformity

[KC](#)



[Miscellaneous](#)



Test Certificates

Marine / Shipping

[Special Test Certificate](#)

[Miscellaneous](#)



Marine / Shipping

other

Railway



[Environmental Confirmations](#)

[Miscellaneous](#)

[Confirmation](#)

[Confirmation](#)

[Vibration and Shock](#)

#### 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=5SY4208-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY4208-7>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY4208-7](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4208-7)

CAX-Online-Generator

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

Tender specifications

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



# CB



