



Figure similar

Circuit breaker 10kA, 1-pole, D, 10 A according to UL 489-277V

| Model                                                                                                                                                                                                                                                                                                                                            |                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| product brand name                                                                                                                                                                                                                                                                                                                               | SENTRON                                                              |
| product designation                                                                                                                                                                                                                                                                                                                              | Miniature circuit breakers                                           |
| design of the product                                                                                                                                                                                                                                                                                                                            | Miniature circuit-breaker 5SJ4                                       |
| General technical data                                                                                                                                                                                                                                                                                                                           |                                                                      |
| number of poles                                                                                                                                                                                                                                                                                                                                  | 1                                                                    |
| design of pole                                                                                                                                                                                                                                                                                                                                   | 1P                                                                   |
| tripping characteristic class                                                                                                                                                                                                                                                                                                                    | D                                                                    |
| mechanical service life (operating cycles) typical                                                                                                                                                                                                                                                                                               | 10 000                                                               |
| installation environment regarding EMC                                                                                                                                                                                                                                                                                                           | Suitable for environment B (immunity to interference not applicable) |
| reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750                                                                                                                                                                                                                                                       | F                                                                    |
| overvoltage category                                                                                                                                                                                                                                                                                                                             | 3                                                                    |
| degree of pollution                                                                                                                                                                                                                                                                                                                              | 3                                                                    |
| Voltage                                                                                                                                                                                                                                                                                                                                          |                                                                      |
| insulation voltage (Ui) at AC rated value                                                                                                                                                                                                                                                                                                        | 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 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> | 10 A<br>10 A<br>9.4 A<br>9.1 A<br>0.88 A<br>10 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                                                        |
| operating voltage <ul style="list-style-type: none"> <li>at AC according to UL 489 and CSA C22.2 No. 5-02 maximum</li> <li>at DC rated value maximum</li> <li>at DC 1-channel according to UL 489 and CSA C22.2 No. 5-02 maximum</li> <li>at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum</li> </ul>                          | 277 V<br>60 V<br>60 V<br>125 V                                       |
| supply voltage frequency rated value                                                                                                                                                                                                                                                                                                             | 50 Hz                                                                |
| Protection class                                                                                                                                                                                                                                                                                                                                 |                                                                      |
| protection class IP                                                                                                                                                                                                                                                                                                                              | IP 0 in the handle range                                             |

|                                                                                                            |                                                                          |
|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>Breaking Capacity</b>                                                                                   |                                                                          |
| <b>switching capacity current</b>                                                                          |                                                                          |
| • according to EN 60898 rated value                                                                        | 10 kA                                                                    |
| • according to IEC 60947-2 rated value                                                                     | 15 kA                                                                    |
| <b>Dissipation</b>                                                                                         |                                                                          |
| power loss [W] for rated value of the current at AC in hot operating state per pole                        | 1.3 W                                                                    |
| <b>Main circuit</b>                                                                                        |                                                                          |
| <b>type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02</b>                             | 480/277                                                                  |
| <b>suitability for operation</b>                                                                           | Infrastructure / Industry                                                |
| <b>Product details</b>                                                                                     |                                                                          |
| <b>product feature touch protection</b>                                                                    | Yes                                                                      |
| <b>product component</b>                                                                                   |                                                                          |
| • tunnel terminals top                                                                                     | No                                                                       |
| • tunnel terminals bottom                                                                                  | No                                                                       |
| • combined terminal top                                                                                    | Yes                                                                      |
| • combined terminal bottom                                                                                 | Yes                                                                      |
| • 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                                                                      |
| <b>Product function</b>                                                                                    |                                                                          |
| <b>set values setting current (Ii) for I-tripping</b>                                                      | 14                                                                       |
| <b>reference value setting current (Ii) for I-tripping</b>                                                 | x I <sub>n</sub>                                                         |
| product function note                                                                                      | Terminal tightening torque for Cu, 60/75 °C; 3.5Nm/31lb.in               |
| <b>Short circuit</b>                                                                                       |                                                                          |
| short-circuit current breaking capacity (I <sub>cn</sub> ) at AC according to UL 1077 and CSA C22.2 No.235 | 10 kA                                                                    |
| <b>Connections</b>                                                                                         |                                                                          |
| <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>                                                       |
| tightening torque with screw-type terminals maximum                                                        | 3.5 N·m                                                                  |
| <b>position of power supply cord</b>                                                                       | Any                                                                      |
| <b>Mechanical Design</b>                                                                                   |                                                                          |
| <b>height</b>                                                                                              | 121 mm                                                                   |
| <b>width</b>                                                                                               | 18 mm                                                                    |
| <b>depth</b>                                                                                               | 70 mm                                                                    |
| <b>installation depth</b>                                                                                  | 70 mm                                                                    |
| <b>number of modular width units</b>                                                                       | 1                                                                        |
| <b>fastening method</b>                                                                                    | on standard mounting rail                                                |
| <b>mounting position</b>                                                                                   | any                                                                      |
| <b>Net Weight</b>                                                                                          | 175 g                                                                    |
| <b>Environmental conditions</b>                                                                            |                                                                          |
| <b>standard</b>                                                                                            | IEC / EN 60947-2 / UL 489                                                |
| <b>vibration resistance</b>                                                                                | 50 m/s <sup>2</sup> at 25 to 150Hz and 60m/s <sup>2</sup> at 35Hz (4sec) |
| <b>vibration resistance according to IEC 60068-2-6</b>                                                     | ±1 mm at 5 to 25 Hz; 50 m/s <sup>2</sup> at 25 to 150 Hz                 |
| <b>ambient temperature during operation</b>                                                                |                                                                          |
| • minimum                                                                                                  | -25 °C                                                                   |
| • maximum                                                                                                  | 55 °C                                                                    |
| <b>ambient temperature during operation</b>                                                                | max. 95% humidity                                                        |
| <b>ambient temperature during storage</b>                                                                  |                                                                          |
| • minimum                                                                                                  | -40 °C                                                                   |
| • maximum                                                                                                  | 75 °C                                                                    |
| <b>Approvals Certificates</b>                                                                              |                                                                          |
| <b>General Product Approval</b>                                                                            |                                                                          |



[Confirmation](#)



EG-Konf.



UL



VDE

General Product Approval

Test Certificates

other

Environment



[Special Test Certificate](#)



[Confirmation](#)

[Environmental Confirmations](#)

Environment

[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=5SJ4110-8HG42>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4110-8HG42>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SJ4110-8HG42](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4110-8HG42)

CAX-Online-Generator

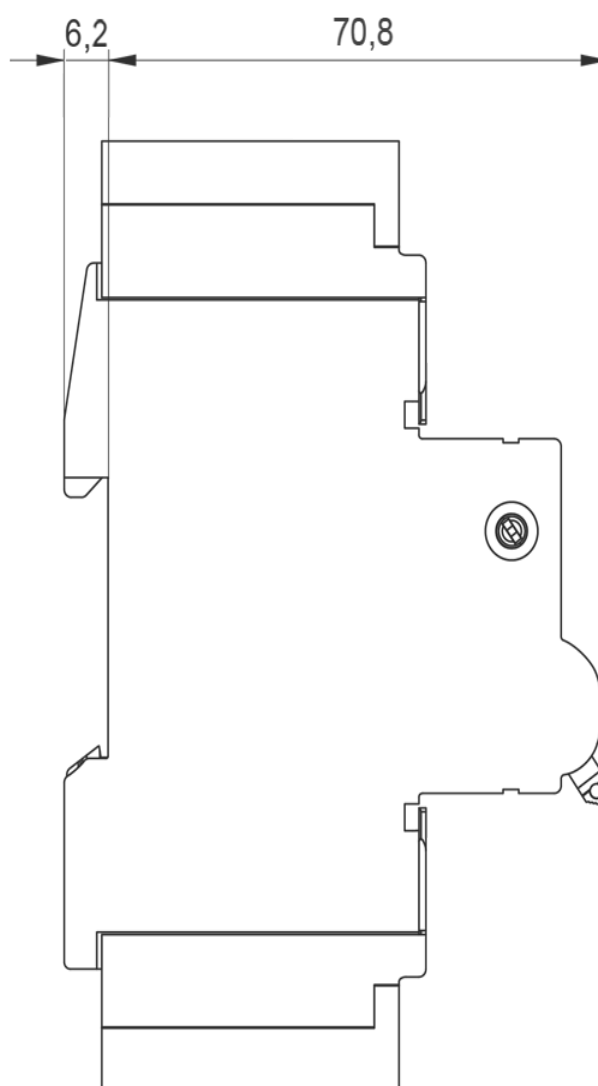
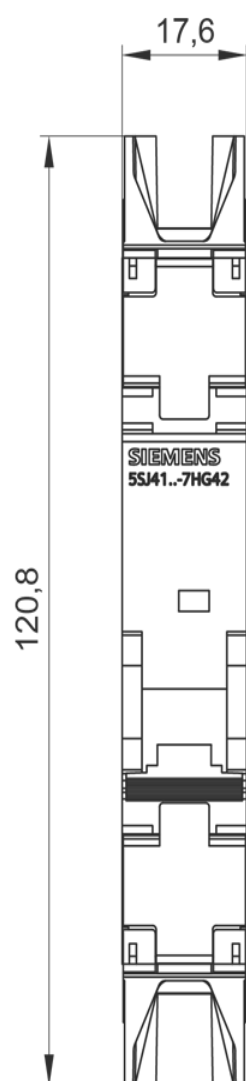
<https://www.siemens.com/cax>

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>)



last modified:

1/11/2026 

