



Circuit breaker 10kA, 3-pole, C, 5A according to UL 489-480Y/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                                                                     | 3                                                                    |
| design of pole                                                                      | 3P                                                                   |
| tripping characteristic class                                                       | C                                                                    |
| 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                                      | F                                                                    |
| according to IEC 204-2 according to IEC 750                                         |                                                                      |
| overvoltage category                                                                | 3                                                                    |
| degree of pollution                                                                 | 3                                                                    |
| Voltage                                                                             |                                                                      |
| type of voltage of the operating voltage                                            | AC/DC                                                                |
| insulation voltage (Ui) at AC rated value                                           | 440 V                                                                |
| Supply voltage                                                                      |                                                                      |
| supply voltage at AC rated value                                                    | 400 V                                                                |
| value range of the supply voltage frequency                                         | 50/60 Hz                                                             |
| operating voltage                                                                   |                                                                      |
| • at AC according to UL 489 and CSA C22.2 No. 5-02 maximum                          | 277 V                                                                |
| • at DC rated value maximum                                                         | 60 V                                                                 |
| • at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum           | 60 V                                                                 |
| • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum                | 125 V                                                                |
| supply voltage frequency rated value                                                | 50 Hz                                                                |
| Protection class                                                                    |                                                                      |
| protection class IP                                                                 | IP20, with connected conductors, IP 40 in the handle range           |
| Switching capacity                                                                  |                                                                      |
| switching capacity current                                                          |                                                                      |
| • according to EN 60898 rated value                                                 | 10 kA                                                                |
| • according to IEC 60947-2 rated value                                              | 15 kA                                                                |
| Dissipation                                                                         |                                                                      |
| power loss [W] for rated value of the current at AC in hot operating state per pole | 2.9 W                                                                |
| Current                                                                             |                                                                      |
| operational current                                                                 |                                                                      |
| • at 30 °C rated value                                                              | 5 A                                                                  |

|                                                                                                                                                                                                                                       |                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• at 40 °C rated value</li> <li>• at 45 °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> <li>• at AC rated value</li> </ul> | 5 A<br>4.9 A<br>4.8 A<br>4.6 A<br>4.5 A<br>5 A                           |
| <b>Main circuit</b>                                                                                                                                                                                                                   |                                                                          |
| type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02                                                                                                                                                               | 480/277                                                                  |
| suitability for operation                                                                                                                                                                                                             | Mechanical engineering / industry                                        |
| <b>Product details</b>                                                                                                                                                                                                                |                                                                          |
| product component                                                                                                                                                                                                                     |                                                                          |
| <ul style="list-style-type: none"> <li>• tunnel terminals top</li> <li>• tunnel terminals bottom</li> <li>• combined terminal top</li> <li>• combined terminal bottom</li> <li>• neutral conductor switching</li> </ul>               | No<br>No<br>Yes<br>Yes<br>No                                             |
| product feature                                                                                                                                                                                                                       |                                                                          |
| <ul style="list-style-type: none"> <li>• halogen-free</li> <li>• sealable</li> <li>• silicon-free</li> </ul>                                                                                                                          | Yes<br>Yes<br>Yes                                                        |
| product extension installable supplementary devices                                                                                                                                                                                   | Yes                                                                      |
| <b>Product function</b>                                                                                                                                                                                                               |                                                                          |
| 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>                                                                                                                                                                                                                    |                                                                          |
| 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>                               |
| tightening torque with screw-type terminals maximum                                                                                                                                                                                   | 3.5 N·m                                                                  |
| position of power supply cord                                                                                                                                                                                                         | Any                                                                      |
| <b>Mechanical Design</b>                                                                                                                                                                                                              |                                                                          |
| height                                                                                                                                                                                                                                | 121 mm                                                                   |
| width                                                                                                                                                                                                                                 | 54 mm                                                                    |
| depth                                                                                                                                                                                                                                 | 70 mm                                                                    |
| installation depth                                                                                                                                                                                                                    | 70 mm                                                                    |
| number of modular width units                                                                                                                                                                                                         | 3                                                                        |
| fastening method                                                                                                                                                                                                                      | on standard mounting rail                                                |
| mounting position                                                                                                                                                                                                                     | any                                                                      |
| net weight                                                                                                                                                                                                                            | 494 g                                                                    |
| <b>Environmental conditions</b>                                                                                                                                                                                                       |                                                                          |
| vibration resistance                                                                                                                                                                                                                  | 50 m/s <sup>2</sup> at 25 to 150Hz and 60m/s <sup>2</sup> at 35Hz (4sec) |
| vibration resistance according to IEC 60068-2-6                                                                                                                                                                                       | ±1 mm at 5 to 25 Hz; 50 m/s <sup>2</sup> at 25 to 150 Hz                 |
| ambient temperature during operation                                                                                                                                                                                                  |                                                                          |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                                                                                                                                        | 55 °C<br>-25 °C                                                          |
| ambient temperature during operation                                                                                                                                                                                                  | max. 95% humidity                                                        |
| ambient temperature during storage                                                                                                                                                                                                    |                                                                          |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                                                                                                                                        | -40 °C<br>75 °C                                                          |
| <b>Certificates</b>                                                                                                                                                                                                                   |                                                                          |
| reference code                                                                                                                                                                                                                        |                                                                          |
| <ul style="list-style-type: none"> <li>• according to EN 61346-2</li> <li>• according to IEC 81346-2</li> </ul>                                                                                                                       | F<br>F                                                                   |
| <b>General Product Approval</b>                                                                                                                                                                                                       |                                                                          |
| <b>Declaration of Conformity</b>                                                                                                                                                                                                      |                                                                          |



[Confirmation](#)



Declaration of  
Conformity

Test Certificates

other



[Special Test Certificate](#)

[Miscellaneous](#)

[Environmental Confirmations](#)

#### Further information

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=5SJ4311-7HG42>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4311-7HG42>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SJ4311-7HG42](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4311-7HG42)

CAX-Online-Generator

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

Tender specifications

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





