



Circuit breaker 10kA, 1-pole, D, 2A 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                                                                    |
| tripping characteristic class                                                                  | D                                                                    |
| mechanical service life (switching 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                                                                                        |                                                                      |
| 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                                                                |
| 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    | 1.8 W                                                                |
| Current                                                                                        |                                                                      |
| operational current                                                                            |                                                                      |
| • at 30 °C / rated value                                                                       | 2 A                                                                  |
| • at 40 °C / rated value                                                                       | 2 A                                                                  |

|                                                                                                                                                                                                                 |                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <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> | 1.9 A<br>1.9 A<br>1.8 A<br>1.8 A<br>2 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 / neutral conductor switching                                                                                                                                                                 | No                                                                       |
| product feature / touch protection                                                                                                                                                                              | Yes                                                                      |
| 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> </ul>                                | No<br>No<br>Yes<br>Yes                                                   |
| 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>                                                                                                                                                                                            |                                                                          |
| breaking capacity short-circuit current (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                                                                                                                                                                                                           | 18 mm                                                                    |
| depth                                                                                                                                                                                                           | 70 mm                                                                    |
| installation depth                                                                                                                                                                                              | 70 mm                                                                    |
| number of modular width units                                                                                                                                                                                   | 1                                                                        |
| fastening method                                                                                                                                                                                                | on standard mounting rail                                                |
| mounting position                                                                                                                                                                                               | any                                                                      |
| net weight                                                                                                                                                                                                      | 175 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) |
| 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 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>                                                                                                                                                                                 |                                                                          |
| Declaration of Conformity                                                                                                                                                                                       |                                                                          |

[Confirmation](#)



EG-Konf.

| Declaration of<br>Conformity | Test Certificates | other |
|------------------------------|-------------------|-------|
|------------------------------|-------------------|-------|



[Special Test Certificate](#)

[Miscellaneous](#)

#### 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=5SJ4102-8HG42>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4102-8HG42>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SJ4102-8HG42](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4102-8HG42)

CAX-Online-Generator

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

Tender specifications

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



