



Miniature circuit breaker 240 V 14kA, 1-pole, C, 2A, D=70 mm according to UL 489

| 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                                                                                                | C                                                                    |
| mechanical service life (switching cycles) / typical                                                                         | 10 000                                                               |
| installation environment regarding EMC                                                                                       | Suitable for environment B (immunity to interference not applicable) |
| reference code / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750                                         | F                                                                    |
| overvoltage category                                                                                                         | 3                                                                    |
| degree of pollution                                                                                                          | 3                                                                    |
| Voltage                                                                                                                      |                                                                      |
| insulation voltage (U <sub>i</sub> ) / at AC / rated value                                                                   | 440 V                                                                |
| Supply voltage                                                                                                               |                                                                      |
| supply voltage / at AC / rated value                                                                                         | 400 V                                                                |
| operating voltage                                                                                                            |                                                                      |
| <ul style="list-style-type: none"> <li>• at AC / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum</li> </ul>                  | 240 V                                                                |
| <ul style="list-style-type: none"> <li>• at DC / rated value / maximum</li> </ul>                                            | 60 V                                                                 |
| <ul style="list-style-type: none"> <li>• at DC / single channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum</li> </ul> | 60 V                                                                 |
| <ul style="list-style-type: none"> <li>• at DC / 2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum</li> </ul>      | 125 V                                                                |
| Protection class                                                                                                             |                                                                      |
| protection class IP                                                                                                          | IP20, with connected conductors, IP 40 in the handle range           |
| Switching capacity                                                                                                           |                                                                      |
| switching capacity current                                                                                                   |                                                                      |
| <ul style="list-style-type: none"> <li>• acc. to EN 60898 / rated value</li> </ul>                                           | 10 kA                                                                |
| <ul style="list-style-type: none"> <li>• acc. to IEC 60947-2 / rated value</li> </ul>                                        | 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                                                                                                          |                                                                      |
| <ul style="list-style-type: none"> <li>• at 30 °C / rated value</li> </ul>                                                   | 2 A                                                                  |
| <ul style="list-style-type: none"> <li>• at 40 °C / rated value</li> </ul>                                                   | 2 A                                                                  |
| <ul style="list-style-type: none"> <li>• at 45 °C / rated value</li> </ul>                                                   | 1.9 A                                                                |
| <ul style="list-style-type: none"> <li>• at 50 °C / rated value</li> </ul>                                                   | 1.9 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>                                      | 1.8 A                                                                    |                          |
|                                                                                                                                                                                  | 1.8 A                                                                    |                          |
|                                                                                                                                                                                  | 2 A                                                                      |                          |
| <b>Main circuit</b>                                                                                                                                                              |                                                                          |                          |
| type of voltage supply / at AC / acc. to UL 489 and CSA C22.2 No. 5-02                                                                                                           | 240                                                                      |                          |
| 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 / acc. to UL 1077 and CSA C22.2 No.235                                                                        | 14 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                                                                                                                                                                           | 110 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                                                                                                                                                                       | 176 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>• acc. to DIN EN 61346-2</li> <li>• acc. to IEC 81346-2</li> </ul>                                                                        | F<br>F                                                                   |                          |
| <b>General Product Approval</b>                                                                                                                                                  | <b>Declaration of Conformity</b>                                         | <b>Test Certificates</b> |



[Miscellaneous](#)

[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?mfb=5SJ4102-7HG41>**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4102-7HG41>**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=5SJ4102-7HG41](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=5SJ4102-7HG41)**CAX-Online-Generator**<http://www.siemens.com/cax>**Tender specifications**<http://www.siemens.com/specifications>

