



Miniature circuit breaker 240 V 14kA, 2-pole, C, 20 A, 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                                                                             | 2                                                                    |
| 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                                                                                     |                                                                      |
| type of voltage / of the operating voltage                                                  | AC/DC                                                                |
| insulation voltage / at AC / rated value                                                    | 440 V                                                                |
| Supply voltage                                                                              |                                                                      |
| supply voltage / at AC / rated value                                                        | 400 V                                                                |
| operating voltage                                                                           |                                                                      |
| • at AC / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum                                   | 240 V                                                                |
| • at DC / rated value / maximum                                                             | 60 V                                                                 |
| • at DC / single channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum                  | 60 V                                                                 |
| • at DC / 2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum                       | 125 V                                                                |
| Protection class                                                                            |                                                                      |
| protection class IP                                                                         | IP20, with connected conductors, IP 40 in the handle range           |
| Switching capacity                                                                          |                                                                      |
| switching capacity current                                                                  |                                                                      |
| • acc. to EN 60898 / rated value                                                            | 10 kA                                                                |
| • acc. 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 | 2.4 W                                                                |
| Current                                                                                     |                                                                      |
| operational current                                                                         |                                                                      |
| • at 30 °C / rated value                                                                    | 20 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> | 20 A<br>19.4 A<br>19 A<br>18.5 A<br>18 A<br>20 A          |                           |                   |
| Main circuit                                                                                                                                                                                                                               |                                                           |                           |                   |
| type of voltage supply / at AC / acc. to UL 489 and CSA C22.2 No. 5-02                                                                                                                                                                     | 240                                                       |                           |                   |
| suitability for operation                                                                                                                                                                                                                  | Mechanical engineering / industry                         |                           |                   |
| Product details                                                                                                                                                                                                                            |                                                           |                           |                   |
| product function / 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                                                       |                           |                   |
| Product function                                                                                                                                                                                                                           |                                                           |                           |                   |
| product function / note                                                                                                                                                                                                                    | Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in |                           |                   |
| Short circuit                                                                                                                                                                                                                              |                                                           |                           |                   |
| breaking capacity short-circuit current (Icn) / at AC / acc. to UL 1077 and CSA C22.2 No.235                                                                                                                                               | 14 kA                                                     |                           |                   |
| Connections                                                                                                                                                                                                                                |                                                           |                           |                   |
| 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 mm²<br>25 mm²                                        |                           |                   |
| tightening torque / with screw-type terminals / maximum                                                                                                                                                                                    | 3.5 N·m                                                   |                           |                   |
| position / of power supply cord                                                                                                                                                                                                            | Any                                                       |                           |                   |
| Mechanical Design                                                                                                                                                                                                                          |                                                           |                           |                   |
| height                                                                                                                                                                                                                                     | 110 mm                                                    |                           |                   |
| width                                                                                                                                                                                                                                      | 36 mm                                                     |                           |                   |
| depth                                                                                                                                                                                                                                      | 70 mm                                                     |                           |                   |
| installation depth                                                                                                                                                                                                                         | 70 mm                                                     |                           |                   |
| number of modular width units                                                                                                                                                                                                              | 2                                                         |                           |                   |
| fastening method                                                                                                                                                                                                                           | on standard mounting rail                                 |                           |                   |
| mounting position                                                                                                                                                                                                                          | any                                                       |                           |                   |
| net weight                                                                                                                                                                                                                                 | 328 g                                                     |                           |                   |
| Environmental conditions                                                                                                                                                                                                                   |                                                           |                           |                   |
| vibration resistance                                                                                                                                                                                                                       | 50 m/s² at 25 to 150Hz and 60m/s² 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                                           |                           |                   |
| Certificates                                                                                                                                                                                                                               |                                                           |                           |                   |
| 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                                                    |                           |                   |
| General Product Approval                                                                                                                                                                                                                   |                                                           | Declaration of Conformity | Test Certificates |



[Miscellaneous](#)

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=5SJ4220-7HG41>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4220-7HG41>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SJ4220-7HG41](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4220-7HG41)

**CAX-Online-Generator**

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

**Tender specifications**

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

