



Circuit breaker 10kA, 1-pole, C, 3 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                                                                 | C                                                                    |
| 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<br>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<br>maximum                                 | 277 V                                                                |
| • at DC rated value maximum                                                                   | 60 V                                                                 |
| • at DC single channel according to UL 489 and CSA<br>C22.2 No. 5-02 maximum                  | 60 V                                                                 |
| • at DC 2-channel according to UL 489 and CSA<br>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<br>operating state per pole        | 1.8 W                                                                |
| Current                                                                                       |                                                                      |
| operational current                                                                           |                                                                      |
| • at 30 °C rated value                                                                        | 3 A                                                                  |
| • at 40 °C rated value                                                                        | 3 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>                                     | 2.9 A<br>2.8 A<br>2.7 A<br>2.6 A<br>3 A                   |                           |
| Main circuit                                                                                                                                                                                                                        |                                                           |                           |
| 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                         |                           |
| Product details                                                                                                                                                                                                                     |                                                           |                           |
| 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                                                       |                           |
| 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 according to UL 1077 and CSA C22.2 No.235                                                                                                                                       | 10 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                                                                                                                                                                                                                              | 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                                                     |                           |
| Environmental conditions                                                                                                                                                                                                            |                                                           |                           |
| vibration resistance                                                                                                                                                                                                                | 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)          |                           |
| vibration resistance according to IEC 60068-2-6                                                                                                                                                                                     | ±1 mm at 5 to 25 Hz; 50 m/s² 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                                           |                           |
| Certificates                                                                                                                                                                                                                        |                                                           |                           |
| 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                                                    |                           |
| General Product Approval                                                                                                                                                                                                            |                                                           | Declaration of Conformity |

[Confirmation](#)



Declaration of  
Conformity

Test Certificates

other



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#### 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=5SJ4103-7HG42>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4103-7HG42>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SJ4103-7HG42](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4103-7HG42)

CAX-Online-Generator

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

Tender specifications

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





