



Circuit breaker 10kA, 1-pole, C, 8A , 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  |
| number of poles / note   | 1P   |
| tripping characteristic class  | C  |
| mechanical service life (switching cycles) / typical   | 20 000   |
| 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 / at AC / rated value   | 440 V  |
| Supply voltage   |  |
| type of voltage  | AC/DC  |
| operational current / at AC / rated value  | 8 A  |
| 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>                  | 277 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  |
| supply voltage frequency   |  |
| <ul style="list-style-type: none"> <li>rated value</li> </ul>  | 50 Hz  |
| 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   | 2.6 W  |

|   |  |
|---|--|
| hot operating state / per pole  |  |
| <b>Main circuit</b>   |  |
| type of voltage supply / at AC / acc. to UL 489 and CSA C22.2 No. 5-02                                    | 480/277  |
| suitability for operation   | Mechanical engineering / industry  |
| <b>Product details</b>  |  |
| product function / neutral conductor switching  | No   |
| product feature / touch protection  | Yes  |
| product component   |  |
| • tunnel terminals top  | No   |
| • tunnel terminals bottom   | No   |
| • combined terminal top   | Yes  |
| • combined terminal bottom  | Yes  |
| product feature   |  |
| • halogen-free  | Yes  |
| • sealable  | Yes  |
| • silicon-free  | 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 | 10 kA  |
| <b>Connections</b>  |  |
| connectable conductor cross-section / finely stranded / with core end processing                          |  |
| • minimum   | 1.5 mm <sup>2</sup>  |
| • maximum   | 25 mm <sup>2</sup>   |
| position / of power supply cord   | Any  |
| <b>Mechanical Design</b>  |  |
| height  | 121 mm   |
| width   | 18 mm  |
| depth   | 76 mm  |
| installation depth  | 70 mm  |
| number of modular width units   | 1  |
| fastening method  | on standard mounting rail  |
| mounting position   | any  |
| net weight  | 171 g  |
| <b>Environmental conditions</b>   |  |
| influence of the surrounding temperature  | max. 95% humidity  |
| vibration resistance  | 50 m/s <sup>2</sup> at 25 to 150Hz and 60m/s <sup>2</sup> at 35Hz (4sec) |
| vibration resistance / acc. to IEC 60068-2-6  | 50 m/s <sup>2</sup> at 25 to 150Hz and 60m/s <sup>2</sup> at 35Hz (4sec) |
| ambient temperature   |  |
| • minimum   | -25 °C   |
| • maximum   | 55 °C  |
| ambient temperature / during storage  |  |
| • minimum   | -40 °C   |
| • maximum   | 75 °C  |
| <b>Certificates</b>   |  |
| reference code  |  |
| • acc. to DIN EN 61346-2  | F  |
| • acc. to IEC 81346-2   | F  |
| <b>General Product Approval</b>   | <b>Declaration of Conformity</b>   |



## Test Certificates

[Special Test Certificate](#)

## 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=5SJ4108-7HG42>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4108-7HG42>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SJ4108-7HG42](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4108-7HG42)

**Tender specifications**

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

