



Miniature circuit breaker 240 V 14kA, 1-pole, D, 8A, 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   | 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 (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 / according 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 / according 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 / according to UL 489 and CSA C22.2 No. 5-02 / maximum</li> </ul>      | 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  |  |
| <ul style="list-style-type: none"> <li>according to EN 60898 / rated value</li> </ul>   | 10 kA  |
| <ul style="list-style-type: none"> <li>according 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                                     | 2.5 W  |
| Current   |  |
| operational current   |  |
| <ul style="list-style-type: none"> <li>at 30 °C / rated value</li> </ul>  | 8 A  |
| <ul style="list-style-type: none"> <li>at 40 °C / rated value</li> </ul>  | 8 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> | 7.8 A  |
|   | 7.6 A  |
|   | 7.4 A  |
|   | 7.2 A  |
|   | 8 A  |
| <b>Main circuit</b>   |  |
| type of voltage supply / at AC / according 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 / according 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  | 166 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>   | <b>Declaration of Conformity</b>   |



[Confirmation](#)



EG-Konf.

| Declaration of Conformity | Test Certificates | other |
|---------------------------|-------------------|-------|
|---------------------------|-------------------|-------|



[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?mlfb=5SJ4108-8HG41>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4108-8HG41>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SJ4108-8HG41](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4108-8HG41)

**CAX-Online-Generator**

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

**Tender specifications**

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



