



Miniature circuit breaker 240 V 14kA, 1-pole, B, 6 A, D=70 mm according to UL 489, equal polarity

Figure similar

| 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                                                                                                                                                                                                                                                                                                                                  | B                                                                                                                            |
| mechanical service life (operating 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                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                              |
| insulation voltage (U <sub>i</sub> ) at AC rated value                                                                                                                                                                                                                                                                                                         | 440 V                                                                                                                        |
| <ul style="list-style-type: none"> <li>● operational current                             <ul style="list-style-type: none"> <li>— at 30 °C rated value</li> <li>— at 40 °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> </ul> </li> <li>● operational current at AC rated value</li> </ul> | <ul style="list-style-type: none"> <li>6 A</li> <li>6 A</li> <li>5.7 A</li> <li>5.6 A</li> <li>5.4 A</li> <li>6 A</li> </ul> |
| Supply voltage                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                              |
| supply voltage <ul style="list-style-type: none"> <li>● at AC</li> <li>● at DC rated value</li> </ul>                                                                                                                                                                                                                                                          | <ul style="list-style-type: none"> <li>400 V</li> <li>60 V</li> </ul>                                                        |
| operating voltage <ul style="list-style-type: none"> <li>● at AC according to UL 489 and CSA C22.2 No. 5-02 maximum</li> <li>● at DC rated value maximum</li> <li>● at DC 1-channel according to UL 489 and CSA C22.2 No. 5-02 maximum</li> </ul>                                                                                                              | <ul style="list-style-type: none"> <li>120 V</li> <li>60 V</li> <li>60 V</li> </ul>                                          |
| supply voltage frequency rated value                                                                                                                                                                                                                                                                                                                           | 50 Hz                                                                                                                        |
| Protection class                                                                                                                                                                                                                                                                                                                                               |                                                                                                                              |
| protection class IP                                                                                                                                                                                                                                                                                                                                            | IP20, with connected conductors, IP 40 in the handle range                                                                   |
| Breaking 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                                                                    |
| <b>Dissipation</b>                                                                            |                                                                          |
| power loss [W] for rated value of the current at AC in hot operating state per pole           | 3 W                                                                      |
| <b>Main circuit</b>                                                                           |                                                                          |
| <b>type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02</b>                | 240/120                                                                  |
| <b>suitability for operation</b>                                                              | Infrastructure / Industry                                                |
| <b>Product details</b>                                                                        |                                                                          |
| <b>product feature touch protection</b>                                                       | Yes                                                                      |
| <b>product component</b>                                                                      |                                                                          |
| <ul style="list-style-type: none"> <li>• tunnel terminals top</li> </ul>                      | No                                                                       |
| <ul style="list-style-type: none"> <li>• tunnel terminals bottom</li> </ul>                   | No                                                                       |
| <ul style="list-style-type: none"> <li>• combined terminal top</li> </ul>                     | Yes                                                                      |
| <ul style="list-style-type: none"> <li>• combined terminal bottom</li> </ul>                  | Yes                                                                      |
| <ul style="list-style-type: none"> <li>• neutral conductor switching</li> </ul>               | No                                                                       |
| <b>product feature halogen-free</b>                                                           | Yes                                                                      |
| <b>product feature sealable</b>                                                               | Yes                                                                      |
| <b>product feature silicon-free</b>                                                           | Yes                                                                      |
| <b>product extension installable supplementary devices</b>                                    | Yes                                                                      |
| <b>Product function</b>                                                                       |                                                                          |
| <b>set values setting current (Ii) for I-tripping</b>                                         | 4                                                                        |
| <b>reference value setting current (Ii) for I-tripping</b>                                    | x In                                                                     |
| product function note                                                                         | Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in                |
| <b>Short circuit</b>                                                                          |                                                                          |
| short-circuit current breaking capacity (Icn) at AC according to UL 1077 and CSA C22.2 No.235 | 14 kA                                                                    |
| <b>Connections</b>                                                                            |                                                                          |
| <b>connectable conductor cross-section finely stranded with core end processing</b>           |                                                                          |
| <ul style="list-style-type: none"> <li>• minimum</li> </ul>                                   | 0.75 mm <sup>2</sup>                                                     |
| <ul style="list-style-type: none"> <li>• maximum</li> </ul>                                   | 25 mm <sup>2</sup>                                                       |
| tightening torque with screw-type terminals maximum                                           | 3.5 N·m                                                                  |
| <b>position of power supply cord</b>                                                          | Any                                                                      |
| <b>Mechanical Design</b>                                                                      |                                                                          |
| <b>height</b>                                                                                 | 90 mm                                                                    |
| <b>width</b>                                                                                  | 18 mm                                                                    |
| <b>depth</b>                                                                                  | 70 mm                                                                    |
| <b>installation depth</b>                                                                     | 70 mm                                                                    |
| <b>number of modular width units</b>                                                          | 1                                                                        |
| <b>fastening method</b>                                                                       | on standard mounting rail                                                |
| <b>mounting position</b>                                                                      | any                                                                      |
| <b>Net Weight</b>                                                                             | 0.162 kg                                                                 |
| <b>Environmental conditions</b>                                                               |                                                                          |
| <b>standard</b>                                                                               | IEC / EN 60947-2 / UL 489                                                |
| <b>vibration resistance</b>                                                                   | 50 m/s <sup>2</sup> at 25 to 150Hz and 60m/s <sup>2</sup> at 35Hz (4sec) |
| <b>vibration resistance according to IEC 60068-2-6</b>                                        | ±1 mm at 5 to 25 Hz; 50 m/s <sup>2</sup> at 25 to 150 Hz                 |
| <b>ambient temperature during operation</b>                                                   |                                                                          |
| <ul style="list-style-type: none"> <li>• minimum</li> </ul>                                   | -25 °C                                                                   |
| <ul style="list-style-type: none"> <li>• maximum</li> </ul>                                   | 55 °C                                                                    |
| <b>ambient temperature during operation</b>                                                   | max. 95% humidity                                                        |
| <b>ambient temperature during storage</b>                                                     |                                                                          |
| <ul style="list-style-type: none"> <li>• minimum</li> </ul>                                   | -40 °C                                                                   |
| <ul style="list-style-type: none"> <li>• maximum</li> </ul>                                   | 75 °C                                                                    |
| <b>Approvals Certificates</b>                                                                 |                                                                          |
| <b>General Product Approval</b>                                                               |                                                                          |



| General Product Approval                                                          | Test Certificates                        | other                                                                             | Environment                  |                                             |                                             |
|-----------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------|------------------------------|---------------------------------------------|---------------------------------------------|
|  | <a href="#">Special Test Certificate</a> |  | <a href="#">Confirmation</a> | <a href="#">Environmental Confirmations</a> | <a href="#">Environmental Confirmations</a> |

#### Further information

**Information on the packaging**

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

**Information for data generation and storage**

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

**Information- and Downloadcenter (Catalogs, Brochures,...)**

<https://www.siemens.com/lowvoltage/catalogs>

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SJ4106-6HG40>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4106-6HG40>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SJ4106-6HG40](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4106-6HG40)

**CAX-Online-Generator**

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

**Tender specifications**

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



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