

Circuit breaker 10kA, 1-pole, D, 2A 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  | D  |
| Installation environment regarding EMC   | Suitable for environment B (immunity to interference not applicable) |
| circuit-breaker / Design   | 5SJ4   |
| Mechanical service life (switching cycles) / typical                                 | 20 000   |
| Reference code / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750 | F  |
| Overvoltage category   | 3  |
| Voltage  |  |
| Insulation voltage / at AC / rated value   | 440 V  |
| Supply voltage   |  |

|   |       |
|---|-------|
| Type of voltage   | AC/DC |
| Current / at AC / rated value   | 2 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 / 1-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 |

|                         |  |
|-------------------------|--|
| <b>Protection class</b> |  |
| Protection class IP     | IP20, with connected conductors, IP 40 in the handle range |

|   |       |
|---|-------|
| <b>Switching capacity</b>   |       |
| 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 |

|   |       |
|---|-------|
| <b>Dissipation</b>  |       |
| Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 1.8 W |

|   |     |
|---|-----|
| <b>Current</b>  |     |
| Tripping residual / rated value / derated current / at 40 Cel | 2 A |

|  |                                   |
|--|-----------------------------------|
| <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  |     |
| <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 |
| Product feature  |     |
| <ul style="list-style-type: none"> <li>halogen-free</li> </ul>             | Yes |
| <ul style="list-style-type: none"> <li>sealable</li> </ul>                 | Yes |
| <ul style="list-style-type: none"> <li>silicon-free</li> </ul>             | Yes |

|  |     |
|--|-----|
| Product extension / can be installed / 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 (I <sub>cn</sub> ) / at AC / acc. to UL 1077 and CSA C22.2 No.235 | 10 kA |
|---|-------|

### Connections

|  |                            |
|--|----------------------------|
| Connectable conductor cross-section / finely stranded / with core end processing | 1.5 ... 25 mm <sup>2</sup> |
| Position / of power supply cord  | Any                        |

### Mechanical Design

|                       |                           |
|-----------------------|---------------------------|
| Height                | 121 mm                    |
| Width                 | 18 mm                     |
| Depth                 | 76 mm                     |
| Installation depth    | 70 mm                     |
| Number of width units | 1                         |
| Mounting type         | on standard mounting rail |
| Mounting position     | any                       |
| Net weight            | 175 g                     |

### Environmental conditions

|  |  |
|--|--|
| 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                          | -25 ... +55 °C   |
| • during storage                             | -40 ... +75 °C   |

### Certificates

|                          |   |
|--------------------------|---|
| Reference code           |   |
| • acc. to DIN EN 61346-2 | F |
| • acc. to DIN EN 81346-2 | F |

| General Product Approval | Declaration of Conformity | Test Certificates |
|--------------------------|---------------------------|-------------------|
|--------------------------|---------------------------|-------------------|



CCC



UL



VDE



EG-Konf.

[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=5SJ4102-8HG42>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4102-8HG42>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SJ4102-8HG42](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4102-8HG42)

**CAX-Online-Generator**

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

**Tender specifications**

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



