





CIRCUIT BREAKER 10KA, 2POLE, D, 4A ACC. TO UL 489 - 480Y/277V



| Model   |  |
|---|--|
| product brandname   | SENTRON  |
| Product designation   | Miniature circuit breakers   |
| Design of the product   | Miniature circuit-breaker 5SJ4                                       |
| General technical data  |  |
| Number of poles   | 2  |
| Number of poles / Note  | 2P   |
| 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   |
| Equipment marking / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750 | F  |
| Overvoltage category  | 3  |
| Voltage   |  |
| Type of voltage   | AC/DC  |
| Insulation voltage / at AC / rated value  | 440 V  |

| Supply voltage   |  |
|--|--|
| Supply voltage / at AC / rated value   | 400 V  |
| Supply voltage frequency / rated value   | 50 Hz  |
| Protection class   |  |
| <b>Protection class IP</b>   | IP20, with connected conductors, IP 40 in the handle range |
| Switching capacity   |  |
| <b>Switching capacity current</b>  |  |
| <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  |  |
| <b>Power loss [W]</b>  |  |
| <ul style="list-style-type: none"> <li>• for rated value of the current / at AC / in hot operating state / per pole</li> </ul> | 1.6 W  |
| <ul style="list-style-type: none"> <li>• maximum</li> </ul>  | 1.5 W  |
| Electricity  |  |
| rated current I <sub>n</sub> / IEC, DIN/VDE / at 40 Cel  | 4 A  |
| Current / at AC / rated value  | 4 A  |
| Main circuit   |  |
| <b>Type of voltage supply / at AC / acc. to UL 489 and CSA C22.2 No. 5-02</b>  | 480/277  |
| <b>Operating voltage</b>   |  |
| <ul style="list-style-type: none"> <li>• minimum</li> </ul>  | 24 V   |
| <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 / 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  |
| <ul style="list-style-type: none"> <li>• at DC / rated value / maximum</li> </ul>  | 60 V   |
| Product details  |  |
| Product feature / Touch protection   | 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  |
| <b>Product feature</b>   |  |
| <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  |
| <b>Product function</b>  |  |
| <b>Product function</b>  |  |
| <ul style="list-style-type: none"> <li>Note</li> <li>neutral conductor switching</li> </ul>  | Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in<br>No          |
| <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>Number</b>  |  |
| Number of test cycles / for environmental testing / acc. to IEC 60068-2-30   | 6  |
| <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>   | 1.5 mm <sup>2</sup><br>25 mm <sup>2</sup>                                |
| Position / of power supply cord  | Any  |
| <b>Mechanical Design</b>   |  |
| Height   | 121 mm   |
| Width  | 36 mm  |
| Depth  | 76 mm  |
| Mounting position  | any  |
| Installation depth   | 70 mm  |
| Number of width units  | 2  |
| Mounting type  | on standard mounting rail  |
| <b>Environmental conditions</b>  |  |
| Degree of pollution  | 3  |
| 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) |
| <b>Ambient temperature</b>   |  |
| <ul style="list-style-type: none"> <li>minimum</li> <li>maximum</li> <li>during storage / minimum</li> <li>during storage / maximum</li> </ul> | -25 °C<br>55 °C<br>-40 °C<br>75 °C                                       |
| <b>Certificates</b>  |  |
| <b>Equipment marking</b>   |  |
| <ul style="list-style-type: none"> <li>acc. to DIN EN 61346-2</li> <li>acc. to DIN EN 81346-2</li> </ul>                                       | F<br>F   |

| General Product Approval  | Declaration of Conformity   | Test Certificates  |
|---|---|--|
| <br>CCC      | <br>UL | <br>VDE |
| <br>EG-Konf. | <a href="#">spezielle Prüfbescheinigungen</a><br><a href="#">n</a>                      |  |

#### 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=5SJ4204-8HG42>

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

<http://support.automation.siemens.com/WW/view/en/5SJ4204-8HG42/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SJ4204-8HG42](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4204-8HG42)

**CAX-Online-Generator**

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

**Tender specifications**

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

