



Circuit breaker 10kA, 1-pole, C, 5 A according to UL 489-277V

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  | C  |
| 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  |
| operational current  |  |
| • at 30 °C rated value   | 5 A  |
| • at 40 °C rated value   | 5 A  |
| • at 50 °C rated value   | 4.8 A  |
| • at 55 °C rated value   | 4.6 A  |
| • at 60 °C rated value   | 4.5 A  |
| • at AC rated value  | 5 A  |
| Supply voltage   |  |
| supply voltage   |  |
| • at AC  | 400 V  |
| • at DC rated value  | 60 V   |
| operating voltage  |  |
| • at AC according to UL 489 and CSA C22.2 No. 5-02 maximum                                 | 277 V  |
| • at DC rated value maximum  | 60 V   |
| • at DC 1-channel according to UL 489 and CSA C22.2 No. 5-02 maximum                       | 60 V   |
| • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum                       | 125 V  |
| 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           | 2.9 W  |
| <b>Main circuit</b>   |  |
| <b>type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02</b>                | 480/277  |
| <b>suitability for operation</b>  | Infrastructure / Industry  |
| <b>Product details</b>  |  |
| <b>product feature touch protection</b>   | 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  |
| <ul style="list-style-type: none"> <li>• neutral conductor switching</li> </ul>               | No   |
| <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 installable supplementary devices   | Yes  |
| <b>Product function</b>   |  |
| <b>set values setting current (Ii) for I-tripping</b>   | 6,5  |
| <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 | 10 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  |
| position of power supply cord   | Any  |
| <b>Mechanical Design</b>  |  |
| <b>height</b>   | 121 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>   | 174 g  |
| <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) |
| vibration resistance according to IEC 60068-2-6   | ±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>   |  |



| Test Certificates | other | Environment |  |  |
|-------------------|-------|-------------|--|--|
|-------------------|-------|-------------|--|--|

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[Environmental Confirmations](#)

### Further information

Information on the packaging

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

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=5SJ4111-7HG42>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4111-7HG42>

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

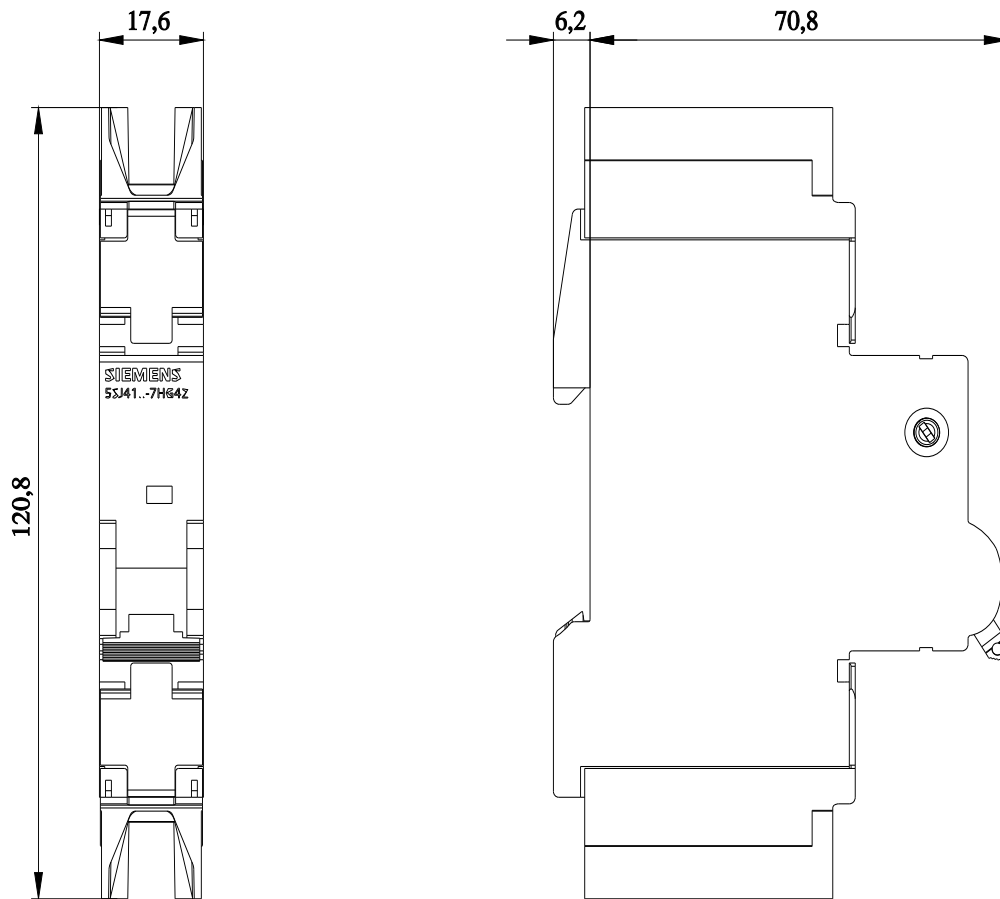
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SJ4111-7HG42](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4111-7HG42)

CAX-Online-Generator

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

Tender specifications

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



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