

## Data sheet

## 5SJ4130-8HG41



Miniature circuit breaker 240 V 10kA, 1-pole, D, 30 A, D=70 mm according to UL 489

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  | D  |
| 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 (Ui) 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> | 30 A<br>30 A<br>28.2 A<br>27.2 A<br>26.4 A<br>30 A                   |
| Supply voltage   |  |
| supply voltage <ul style="list-style-type: none"> <li>● at AC</li> <li>● at DC rated value</li> </ul>  | 400 V<br>60 V  |
| value range of the supply voltage frequency  | 50/60 Hz   |
| 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> <li>● at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum</li> </ul>                  | 240 V<br>60 V<br>60 V<br>125 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               |
| <b>Breaking Capacity</b>  |  |
| <b>switching capacity current</b>   |  |
| • according to EN 60898 rated value   | 10 kA  |
| • according to IEC 60947-2 rated value  | 15 kA  |
| <b>Dissipation</b>  |  |
| power loss [W] for rated value of the current at AC in hot operating state per pole           | 3.2 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  |
| <b>suitability for operation</b>  | Infrastructure / Industry  |
| <b>Product details</b>  |  |
| <b>product feature touch protection</b>   | Yes  |
| <b>product component</b>  |  |
| • <b>tunnel terminals top</b>   | No   |
| • <b>tunnel terminals bottom</b>  | No   |
| • combined terminal top   | Yes  |
| • combined terminal bottom  | Yes  |
| • neutral conductor switching   | 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>   | 12   |
| <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>           |  |
| • minimum   | 0.75 mm <sup>2</sup>   |
| • maximum   | 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>   | 110 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>   | 176 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) |
| <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>   |  |
| • minimum   | -25 °C   |
| • maximum   | 55 °C  |
| <b>ambient temperature during operation</b>   | max. 95% humidity  |
| <b>ambient temperature during storage</b>   |  |
| • minimum   | -40 °C   |
| • maximum   | 75 °C  |
| <b>Approvals Certificates</b>   |  |

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General Product Approval

Test Certificates

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Environment


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## 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=5SJ4130-8HG41>

## Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4130-8HG41>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SJ4130-8HG41](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4130-8HG41)

## CAx-Online-Generator

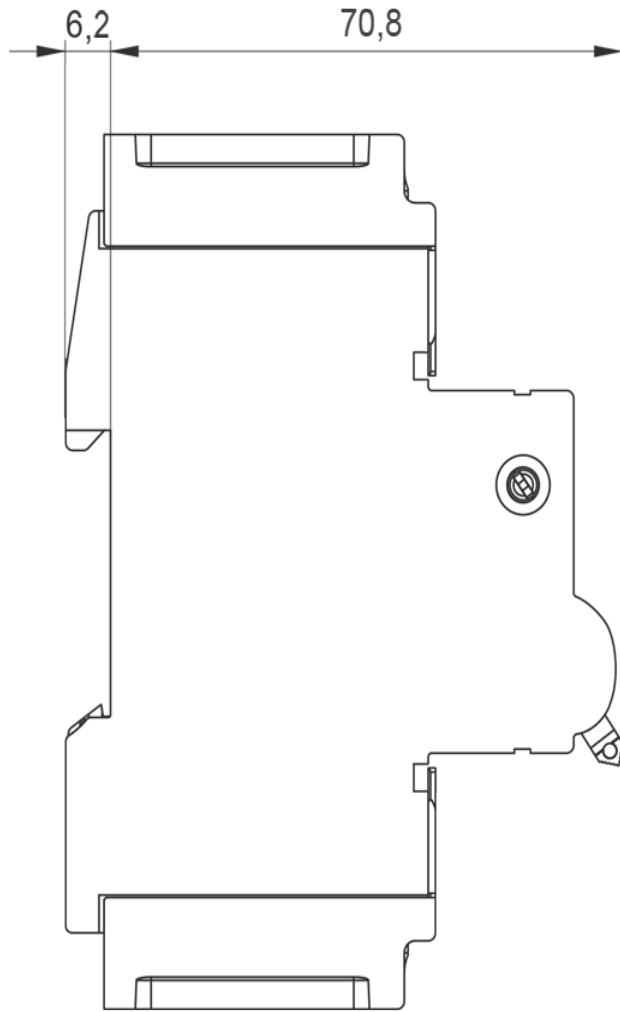
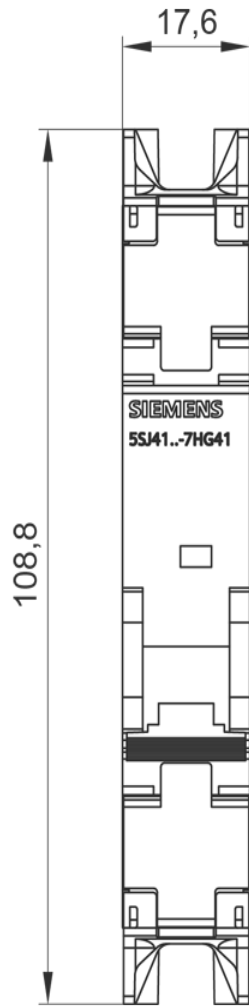
<https://www.siemens.com/cax>

## Tender specifications

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

## Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP='HAUPT'></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP='HAUPT'></mmp_prod_no>)



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