



Figure similar

Miniature circuit breaker 240 V 14kA, 3-pole, D, 20 A, D=70 mm according to UL 489

| Model   |  |
|---|--|
| product brand name  | SENTRON  |
| product designation   | Miniature circuit breakers   |
| design of the product   | Miniature circuit-breaker 5SJ4                                       |
| General technical data  |  |
| number of poles   | 3  |
| design of pole  | 3P   |
| 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> </ul> |  |
| • operational current at AC rated value   | 20 A   |
| • at 40 °C rated value  | 20 A   |
| • at 50 °C rated value  | 19 A   |
| • at 55 °C rated value  | 18.5 A   |
| • at 60 °C rated value  | 18 A   |
| • operational current at AC rated value   | 20 A   |
| Supply voltage  |  |
| supply voltage  |  |
| • at AC   | 400 V  |
| • at DC rated value   | 60 V   |
| value range of the supply voltage frequency   | 50/60 Hz   |
| operating voltage   |  |
| • at AC according to UL 489 and CSA C22.2 No. 5-02 maximum  | 240 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  |  |
|--|--|
| <b>switching capacity current</b>  |  |
| • according to EN 60898 rated value  | 10 kA  |
| • according to IEC 60947-2 rated value   | 15 kA  |
| Dissipation  |  |
| power loss [W] for rated value of the current at AC in hot operating state per pole                        | 2.4 W  |
| Main circuit   |  |
| <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  |
| Product details  |  |
| <b>product feature touch protection</b>  | Yes  |
| <b>product component</b>   |  |
| • tunnel terminals top   | No   |
| • tunnel terminals bottom  | 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  |
| Product function   |  |
| <b>set values setting current (I<sub>li</sub>) for I-tripping</b>  | 14   |
| <b>reference value setting current (I<sub>li</sub>) for I-tripping</b>                                     | x ln   |
| product function note  | Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in                |
| Short circuit  |  |
| short-circuit current breaking capacity (I <sub>cn</sub> ) at AC according to UL 1077 and CSA C22.2 No.235 | 14 kA  |
| Connections  |  |
| <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  |
| Mechanical Design  |  |
| <b>height</b>  | 110 mm   |
| <b>width</b>   | 54 mm  |
| <b>depth</b>   | 70 mm  |
| <b>installation depth</b>  | 70 mm  |
| <b>number of modular width units</b>   | 3  |
| <b>fastening method</b>  | on standard mounting rail  |
| <b>mounting position</b>   | any  |
| <b>Net Weight</b>  | 489 g  |
| Environmental conditions   |  |
| <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  |
| Approvals Certificates   |  |
| <b>General Product Approval</b>  |  |



EG-Konf.



| 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,...)

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SJ4320-8HG41>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4320-8HG41>

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

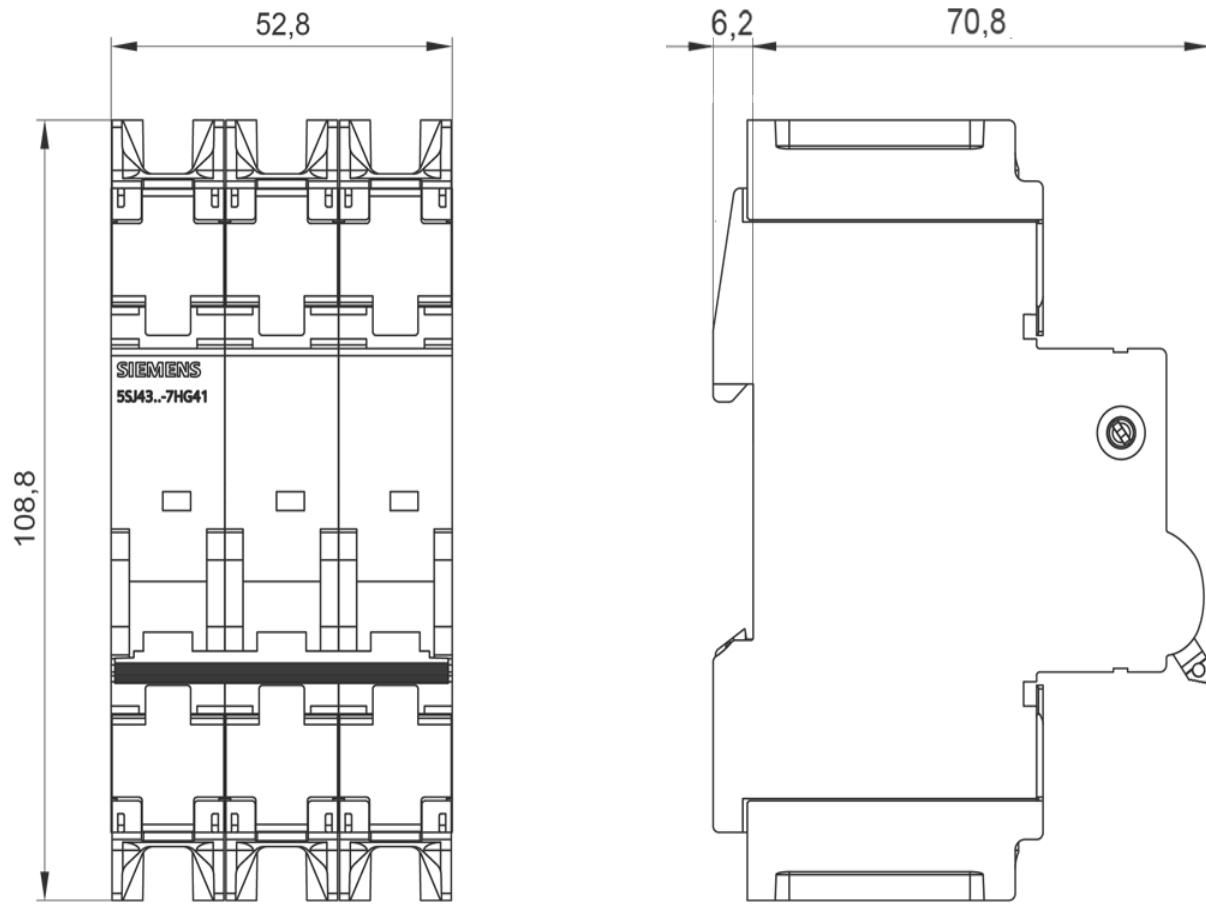
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SJ4320-8HG41](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4320-8HG41)

CAx-Online-Generator

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

Tender specifications

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



---

last modified:

7/19/2025

