## SIEMENS

## Data sheet

## 5SJ4120-7HG42

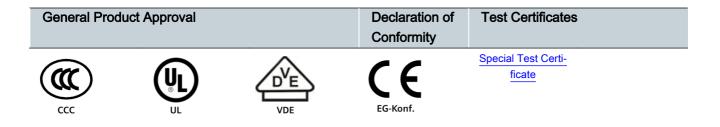
Circuit breaker 10kA, 1-pole, C, 20A according to UL 489-277V



| 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                        | C  |  |
| 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          | F  |  |
| according to IEC 204-2 / acc. to IEC 750             |  |  |
| Overvoltage category                                 | 3  |  |
| Degree of pollution                                  | 3  |  |
| Voltage  |  |  |
| Insulation voltage / at AC / rated value             | 440 V  |  |

| Supply voltage   |  |
|--|--|
| Type of voltage  | AC/DC  |
| Operating current / at AC / rated value  | 20 A   |
| Supply voltage / at AC / rated value   | 400 V  |
| Operating voltage  |  |
| • at AC / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum  | 277 V  |
| • at DC / rated value / maximum  | 60 V   |
| <ul> <li>at DC / 1-channel / acc. to UL 489 and CSA</li> <li>C22.2 No. 5-02 / maximum</li> </ul> | 60 V   |
| <ul> <li>at DC / 2-channel / acc. to UL 489 and CSA</li> <li>C22.2 No. 5-02 / maximum</li> </ul> | 125 V  |
| Supply voltage frequency   |  |
| rated value  | 50 Hz  |
| Protection class   |  |
| Protection class IP  | IP20, with connected conductors, IP 40 in the handle range |
|  | ······································                     |
| Switching capacity   |  |
| Switching capacity current   |  |
| <ul> <li>acc. to EN 60898 / rated value</li> </ul>   | 10 kA  |
| <ul> <li>acc. to IEC 60947-2 / rated value</li> </ul>  | 15 kA  |
| Dissipation  |  |
| Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole      | 2.2 W  |
| Current  |  |
| Tripping residual / rated value / derated current / at 40 Cel                                    | 20 A   |
| Main circuit   |  |
| 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                          |
| Product details  |  |
| Product function / neutral conductor switching   | No   |
| Product feature / Touch protection   | Yes  |
| Product component  |  |
| • Tunnel terminals top   | No   |
| <ul> <li>Tunnel terminals bottom</li> </ul>  | No   |
| • combined terminal top  | Yes  |
| combined terminal bottom   | Yes  |
| Product feature  |  |
| ● halogen-free   | Yes  |
| • sealable   | Yes  |
|  |  |

| ● silicon-free   | 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 (Icn) / 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  |  |
| • minimum  | 1.5 mm²  |
| • maximum  | 25 mm²   |
| 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   | 176 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  |  |
| • minimum  | -25 °C   |
| • maximum  | 55 °C  |
| Ambient temperature / during storage   |  |
| • minimum  | -40 °C   |
| • maximum  | 75 °C  |
| Certificates   |  |
| Reference code   |  |
| • acc. to DIN EN 61346-2   | F  |
| • acc. to DIN EN 81346-2   | F  |
|  |  |



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=5SJ4120-7HG42

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/5SJ4120-7HG42

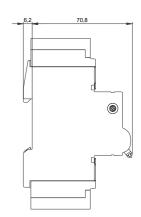
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=5SJ4120-7HG42

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications



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