



Miniature circuit breaker 240 V 14kA, 1-pole, D, 20 A, D=70 mm according to UL 489, equal polarity

| Model | |
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| product brand name | SENTRON |
| product designation | Miniature circuit breakers |
| design of the product | Miniature circuit-breaker 5SJ4 |
| General technical data | |
| number of poles | 1 |
| tripping characteristic class | D |
| mechanical service life (switching cycles) / typical | 10 000 |
| installation environment regarding EMC | Suitable for environment B (immunity to interference not applicable) |
| reference code / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750 | F |
| overvoltage category | 3 |
| degree of pollution | 3 |
| Voltage | |
| type of voltage / of the operating voltage | AC/DC |
| insulation voltage (U _i) / at AC / rated value | 440 V |
| Supply voltage | |
| supply voltage / at AC / rated value | 400 V |
| operating voltage | |
| <ul style="list-style-type: none"> at AC / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum | 120 V |
| <ul style="list-style-type: none"> at DC / rated value / maximum | 60 V |
| <ul style="list-style-type: none"> at DC / single channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum | 60 V |
| Protection class | |
| protection class IP | IP20, with connected conductors, IP 40 in the handle range |
| Switching capacity | |
| switching capacity current | |
| <ul style="list-style-type: none"> acc. to EN 60898 / rated value | 10 kA |
| <ul style="list-style-type: none"> acc. 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 |
| Current | |
| operational current | |
| <ul style="list-style-type: none"> at 30 °C / rated value | 20 A |
| <ul style="list-style-type: none"> at 40 °C / rated value | 20 A |
| <ul style="list-style-type: none"> at 45 °C / rated value | 19.4 A |
| <ul style="list-style-type: none"> at 50 °C / rated value | 18.8 A |

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|--|--|--------------------------|
| <ul style="list-style-type: none"> at 55 °C / rated value at 60 °C / rated value at AC / rated value | 18.1 A 17.6 A 20 A | |
| Main circuit | | |
| type of voltage supply / at AC / acc. to UL 489 and CSA C22.2 No. 5-02 | 240/120 | |
| suitability for operation | Mechanical engineering / industry | |
| Product details | | |
| product component / neutral conductor switching | No | |
| product feature / touch protection | Yes | |
| product component <ul style="list-style-type: none"> tunnel terminals top tunnel terminals bottom combined terminal top combined terminal bottom | No No Yes Yes | |
| product feature <ul style="list-style-type: none"> halogen-free sealable silicon-free | Yes Yes Yes | |
| product extension / installable / 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 (I _{cn}) / at AC / acc. to UL 1077 and CSA C22.2 No.235 | 14 kA | |
| Connections | | |
| connectable conductor cross-section / finely stranded / with core end processing <ul style="list-style-type: none"> minimum maximum | 0.75 mm ² 25 mm ² | |
| tightening torque / with screw-type terminals / maximum | 3.5 N·m | |
| position / of power supply cord | Any | |
| Mechanical Design | | |
| height | 90 mm | |
| width | 18 mm | |
| depth | 70 mm | |
| installation depth | 70 mm | |
| number of modular width units | 1 | |
| fastening method | on standard mounting rail | |
| mounting position | any | |
| net weight | 165 g | |
| Environmental conditions | | |
| vibration resistance | 50 m/s ² at 25 to 150Hz and 60m/s ² at 35Hz (4sec) | |
| ambient temperature / during operation <ul style="list-style-type: none"> minimum maximum | 55 °C -25 °C | |
| ambient temperature / during storage <ul style="list-style-type: none"> minimum maximum | -40 °C 75 °C | |
| Certificates | | |
| reference code <ul style="list-style-type: none"> acc. to DIN EN 61346-2 acc. to IEC 81346-2 | F F | |
| General Product Approval | Declaration of Conformity | Test Certificates |



[Miscellaneous](#)

[Special Test Certificate](#) [Miscellaneous](#)

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?mfb=5SJ4120-8HG40>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4120-8HG40>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=5SJ4120-8HG40

CAX-Online-Generator

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

Tender specifications

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



