



Miniature circuit breaker 240 V 14kA, 1-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 | 1 |
| design of pole | 1P |
| 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 according to DIN 40719 extended according to IEC 204-2 according 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 |
| value range of the supply voltage frequency | 50/60 Hz |
| operating voltage | |
| <ul style="list-style-type: none"> at AC according to UL 489 and CSA C22.2 No. 5-02 maximum | 240 V |
| <ul style="list-style-type: none"> at DC rated value maximum | 60 V |
| <ul style="list-style-type: none"> at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum | 60 V |
| <ul style="list-style-type: none"> 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 |
| Switching capacity | |
| switching capacity current | |
| <ul style="list-style-type: none"> according to EN 60898 rated value | 10 kA |
| <ul style="list-style-type: none"> 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 |
| 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 • at 45 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value • at AC rated value | 20 A 19.4 A 18.8 A 18.1 A 17.6 A 20 A |
| Main circuit | |
| type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02 | 240 |
| suitability for operation | Mechanical engineering / industry |
| Product details | |
| product component | |
| <ul style="list-style-type: none"> • tunnel terminals top • tunnel terminals bottom • combined terminal top • combined terminal bottom • neutral conductor switching | No No Yes Yes No |
| 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 according 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 | 110 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 | 172 g |
| Environmental conditions | |
| vibration resistance | 50 m/s ² at 25 to 150Hz and 60m/s ² at 35Hz (4sec) |
| vibration resistance according to IEC 60068-2-6 | ±1 mm at 5 to 25 Hz; 50 m/s ² at 25 to 150 Hz |
| ambient temperature during operation | |
| <ul style="list-style-type: none"> • minimum • maximum | 55 °C -25 °C |
| ambient temperature during operation | max. 95% humidity |
| 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"> • according to EN 61346-2 • according to IEC 81346-2 | F F |
| General Product Approval | Declaration of Conformity |



[Confirmation](#)



EG-Konf.

Test Certificates

other

[Miscellaneous](#)

[Special Test Certificate](#)

[Miscellaneous](#)

[Environmental Confirmations](#)

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=5SJ4120-8HG41>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4120-8HG41>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=5SJ4120-8HG41

CAX-Online-Generator

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

Tender specifications

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



