SIEMENS

## Data sheet 5SJ4202-7HG42

Circuit breaker 10kA, 2-pole, C, 2A according to UL 489-480Y/277V

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|---|---|
| **Model** | |
| product brand name | SENTRON |
| product designation | Miniature circuit breakers |
| design of the product | Miniature circuit-breaker 5SJ4 |
| **General technical data** | |
| number of poles | 2 |
| design of pole | 2P |
| tripping characteristic class | C |
| 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** | |
| type of voltage of the operating voltage | AC/DC |
| insulation voltage (Ui) 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 | |
| ● at AC according to UL 489 and CSA C22.2 No. 5-02 maximum | 277 V |
| ● at DC rated value maximum | 60 V |
| ● at DC single 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 |
| **Switching capacity** | |
| switching capacity current | |
| ● 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 | 1.8 W |
| **Current** | |
| operational current | |
| ● at 30 °C rated value | 2 A |

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|---|---|
| ● at 40 °C rated value | 2 A |
| ● at 45 °C rated value | 1.9 A |
| ● at 50 °C rated value | 1.9 A |
| ● at 55 °C rated value | 1.8 A |
| ● at 60 °C rated value | 1.8 A |
| ● at AC rated value | 2 A |
| **Main circuit** | |
| type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02 | 480/277 |
| suitability for operation | Mechanical engineering / industry |
| **Product details** | |
| product component | |
| ● tunnel terminals top | No |
| ● tunnel terminals bottom | No |
| ● combined terminal top | Yes |
| ● combined terminal bottom | Yes |
| ● neutral conductor switching | No |
| product feature | |
| ● halogen-free | Yes |
| ● sealable | Yes |
| ● silicon-free | 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** | |
| short-circuit current breaking capacity (Icn) at AC according to UL 1077 and CSA C22.2 No.235 | 10 kA |
| **Connections** | |
| connectable conductor cross-section finely stranded with core end processing | |
| ● minimum | 0.75 mm² |
| ● maximum | 25 mm² |
| tightening torque with screw-type terminals maximum | 3.5 N·m |
| position of power supply cord | Any |
| **Mechanical Design** | |
| height | 121 mm |
| width | 36 mm |
| depth | 70 mm |
| installation depth | 70 mm |
| number of modular width units | 2 |
| fastening method | on standard mounting rail |
| mounting position | any |
| net weight | 345 g |
| **Environmental conditions** | |
| vibration resistance | 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) |
| vibration resistance according to IEC 60068-2-6 | ±1 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz |
| ambient temperature during operation | |
| ● minimum | 55 °C |
| ● maximum | -25 °C |
| ambient temperature during operation | max. 95% humidity |
| ambient temperature during storage | |
| ● minimum | -40 °C |
| ● maximum | 75 °C |

| **General Product Approval** | | | | | | **Declaration of Conformity** |
|---|---|---|---|---|---|---|
| CCC | Confirmation | UL | VDE | EAC | EG-Konf. | CE |

| Declaration of Conformity | Test Certificates | other |
|---|---|---|
| UK CA | Special Test Certificate | Environmental Confirmations |
| | | Miscellaneous |

## Further information

**Information on the packaging**
https://support.industry.siemens.com/cs/ww/en/view/109813875
**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=5SJ4202-7HG42
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/5SJ4202-7HG42
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4202-7HG42
**CAx-Online-Generator**
http://www.siemens.com/cax
**Tender specifications**
http://www.siemens.com/specifications