SIEMENS

## Data sheet 5SJ4310-8HG42



Figure similar

Circuit breaker 10kA, 3-pole, D, 10 A according to UL 489-480Y/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** | 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 |
| **● operational current** | |
| — at 30 °C rated value | 10 A |
| **— at 40 °C rated value** | 10 A |
| — at 50 °C rated value | 9.4 A |
| — at 55 °C rated value | 9.1 A |
| — at 60 °C rated value | 0.88 A |
| **● operational current at AC rated value** | 10 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 | 277 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** | |


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| | |
|---|---|
| **protection class IP** | IP20, with connected conductors, IP 40 in the handle range |
| **Breaking 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 | 1.3 W |
| **Main circuit** | |
| **type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02** | 480/277 |
| **suitability for operation** | Infrastructure / Industry |
| **Product details** | |
| **product feature touch protection** | Yes |
| **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 |
| **product feature sealable** | Yes |
| **product feature silicon-free** | Yes |
| **product extension installable supplementary devices** | Yes |
| **Product function** | |
| **set values setting current (Ii) for I-tripping** | 14 |
| **reference value setting current (Ii) for I-tripping** | x In |
| 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** | 54 mm |
| **depth** | 70 mm |
| **installation depth** | 70 mm |
| **number of modular width units** | 3 |
| **fastening method** | on standard mounting rail |
| **mounting position** | any |
| **Net Weight** | 496 g |
| **Environmental conditions** | |
| **standard** | IEC / EN 60947-2 / UL 489 |
| **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 | -25 °C |
| ● maximum | 55 °C |
| **ambient temperature during operation** | max. 95% humidity |
| **ambient temperature during storage** | |
| ● minimum | -40 °C |
| ● maximum | 75 °C |
| **Approvals Certificates** | |


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## General Product Approval

| | | | | | |
|---|---|---|---|---|---|
| CCC | EG-Konf. | | Confirmation | UL | VDE |

| General Product Approval | | Test Certificates | other | | Environment |
|---|---|---|---|---|---|
| | | Special Test Certific-ate | 产品合格 QC PASS | Confirmation | Environmental Con-firmations |

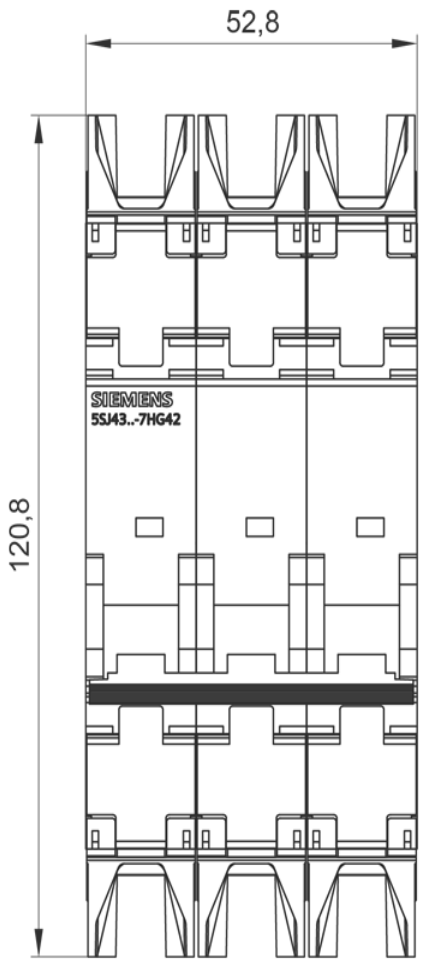
## Environment

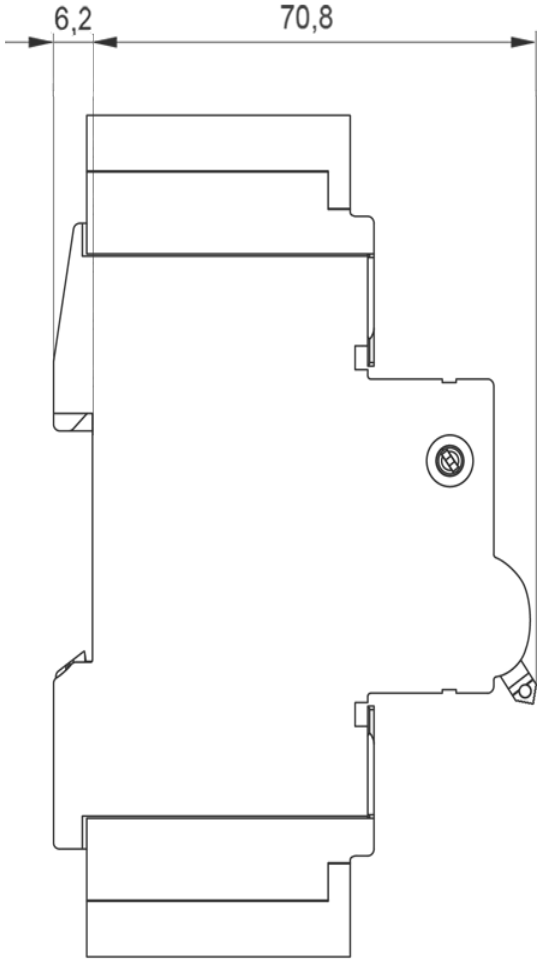
Environmental Con-firmations

## 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,…)**
https://www.siemens.com/lowvoltage/catalogs
**Industry Mall (Online ordering system)**
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SJ4310-8HG42
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/5SJ4310-8HG42
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4310-8HG42
**CAx-Online-Generator**
https://www.siemens.com/cax
**Tender specifications**
https://www.siemens.com/specifications


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