



Circuit breaker 10kA, 2-pole, C, 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  | 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  |  |
| insulation voltage (Ui) at AC rated value  | 440 V  |
| Supply voltage   |  |
| supply voltage   |  |
| • at AC rated value  | 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 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        | 1.4 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   |  | 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  |  | 331 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   |  | 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 Con-<br>formity |



[Confirmation](#)



|                                |                   |       |             |
|--------------------------------|-------------------|-------|-------------|
| Declaration of Con-<br>formity | Test Certificates | other | Environment |
|--------------------------------|-------------------|-------|-------------|



[Special Test Certificate](#)

[Confirmation](#)

[Miscellaneous](#)

[Environmental Con-  
firmations](#)

#### Further information

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=5SJ4210-7HG42>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4210-7HG42>

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

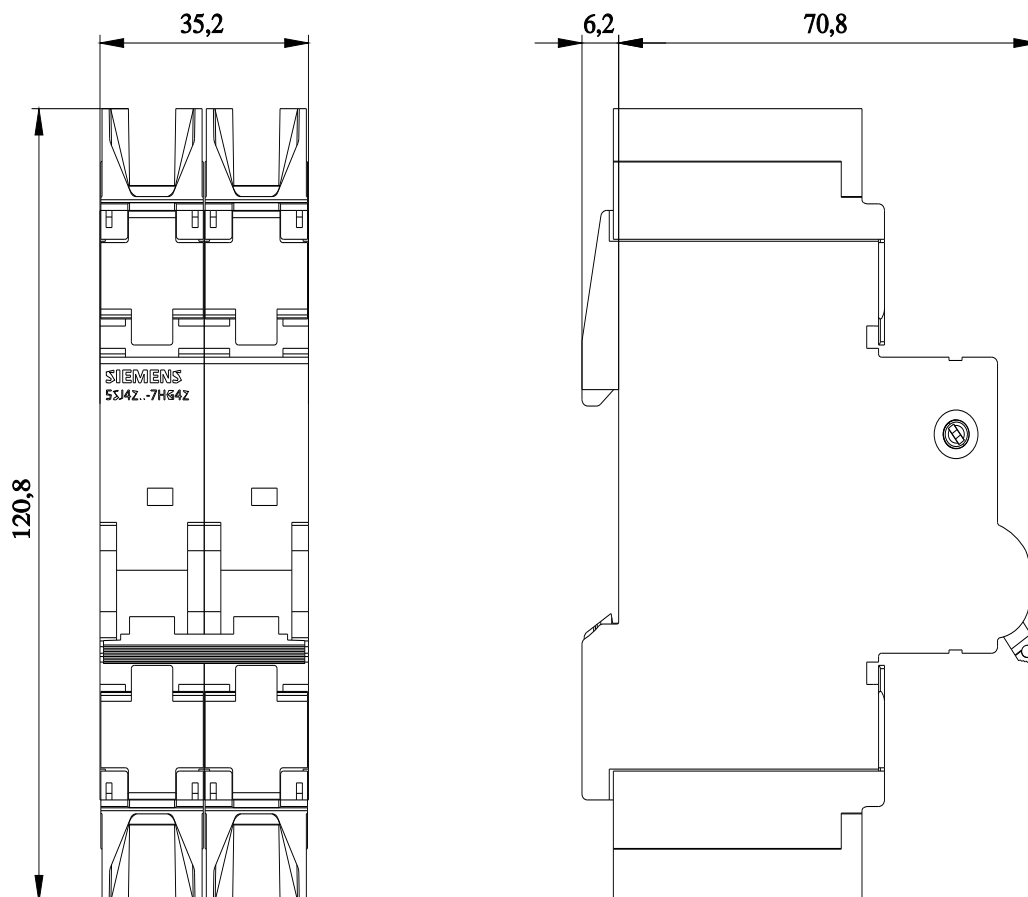
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SJ4210-7HG42](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4210-7HG42)

CAX-Online-Generator

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

Tender specifications

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



last modified:

8/13/2023 



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens:

[5SJ42107HG42](#)