



Circuit breaker 10kA, 1-pole, C, 8A , according to UL 489-277V

| Model | |
|---|--|
| product brand name | SENTRON |
| product designation | Miniature circuit breakers |
| design of the product | Miniature circuit-breaker 5SJ4 |
| General technical data | |
| number of poles | 1 |
| tripping characteristic class | C |
| 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 |
| operating voltage | |
| <ul style="list-style-type: none"> at AC / according to UL 489 and CSA C22.2 No. 5-02 / maximum | 277 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 | 2.6 W |
| Current | |
| operational current | |
| <ul style="list-style-type: none"> at 30 °C / rated value | 8 A |
| <ul style="list-style-type: none"> at 40 °C / rated value | 8 A |

| | |
|---|--|
| <ul style="list-style-type: none"> • at 45 °C / rated value • at 50 °C / rated value • at 55 °C / rated value • at 60 °C / rated value • at AC / rated value | 7.8 A |
| | 7.6 A |
| | 7.4 A |
| | 7.2 A |
| | 8 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 / 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 / according to UL 1077 and CSA C22.2 No.235 | 10 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 | 121 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 | 171 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"> • according to EN 61346-2 • according to IEC 81346-2 | F F |
| General Product Approval | Declaration of Conformity |



[Confirmation](#)



EG-Konf.

| Declaration of Conformity | Test Certificates | other |
|---------------------------|-------------------|-------|
|---------------------------|-------------------|-------|



[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?mlfb=5SJ4108-7HG42>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4108-7HG42>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4108-7HG42

CAX-Online-Generator

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

Tender specifications

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



