



Miniature circuit breaker 240 V 10kA, 3-pole, C, 50 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 | 3 |
| 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 / acc. to DIN 40719 extended according to IEC 204-2 / acc. 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 |
| operating voltage | |
| • at AC / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum | 240 V |
| • at DC / rated value / maximum | 60 V |
| • at DC / single channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum | 60 V |
| • at DC / 2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum | 125 V |
| Protection class | |
| protection class IP | IP20, with connected conductors, IP 40 in the handle range |
| Switching capacity | |
| switching capacity current | |
| • acc. to EN 60898 / rated value | 10 kA |
| • acc. 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 | 6.3 W |
| Current | |
| operational current | |
| • at 30 °C / rated value | 50 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 | 50 A 49 A 48 A 46.9 A 46 A 50 A | | |
| Main circuit | | | |
| type of voltage supply / at AC / acc. to UL 489 and CSA C22.2 No. 5-02 | 240 | | |
| 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 (Icn) / at AC / acc. 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 mm² 25 mm² | | |
| tightening torque / with screw-type terminals / maximum | 3.5 N·m | | |
| position / of power supply cord | Any | | |
| Mechanical Design | | | |
| height | 110 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 | 514 g | | |
| Environmental conditions | | | |
| vibration resistance | 50 m/s² at 25 to 150Hz and 60m/s² 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">• acc. to DIN EN 61346-2• acc. to IEC 81346-2 | F F | | |
| General Product Approval | | Declaration of Conformity | Test Certificates |



[Miscellaneous](#)

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=5SJ4350-7HG41>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4350-7HG41>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4350-7HG41

CAX-Online-Generator

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

Tender specifications

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



