SIEMENS

## Data sheet 5SJ4303-7HG42

Circuit breaker 10kA, 3-pole, C, 3 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 |
| Number of poles / Note | 3P |
| Tripping characteristic class | C |
| Installation environment regarding EMC | Suitable for environment B (immunity to interference not applicable) |
| circuit-breaker / Design | 5SJ4 |
| Mechanical service life (switching cycles) / typical | 20 000 |
| Reference code / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750 | F |
| Overvoltage category | 3 |

| Supply voltage | |
|---|---|
| Type of voltage | AC/DC |
| Current / at AC / rated value | 3 A |
| Supply voltage / at AC / rated value | 400 V |


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| | |
|---|---|
| Operating voltage | |
| • at AC / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum | 277 V |
| • at DC / rated value / maximum | 60 V |
| • at DC / 1-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 |
| 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 | |
| • 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 | 1.8 W |

## Current

| | |
|---|---|
| Tripping residual / rated value / derated current / at 40 Cel | 3 A |

## Main circuit

| | |
|---|---|
| Type of voltage supply / at AC / acc. to UL 489 and CSA C22.2 No. 5-02 | 480/277 |
| Suitability for operation | Mechanical engineering / industry |

## Product details

| | |
|---|---|
| Product function / neutral conductor switching | No |
| Product feature / Touch protection | Yes |
| Product component | |
| • Tunnel terminals top | No |
| • Tunnel terminals bottom | No |
| • combined terminal top | Yes |
| • combined terminal bottom | Yes |
| Product feature | |
| • halogen-free | Yes |
| • sealable | Yes |
| • silicon-free | Yes |
| Product extension / can be installed / supplementary devices | Yes |

## Product function


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| | |
|---|---|
| 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 | |
| • minimum | 1.5 mm² |
| • maximum | 25 mm² |
| Position / of power supply cord | Any |

## Mechanical Design

| | |
|---|---|
| Height | 121 mm |
| Width | 54 mm |
| Depth | 76 mm |
| Installation depth | 70 mm |
| Number of width units | 3 |
| Mounting type | on standard mounting rail |
| Mounting position | any |
| Net weight | 494 g |

## Environmental conditions

| | |
|---|---|
| Influence of the surrounding temperature | max. 95% humidity |
| Vibration resistance | 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) |
| Vibration resistance / acc. to IEC 60068-2-6 | 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) |

## Certificates

| | |
|---|---|
| Reference code | |
| • acc. to DIN EN 61346-2 | F |
| • acc. to DIN EN 81346-2 | F |

| General Product Approval | Declaration of Conformity | Test Certificates |
|---|---|---|
| CCC, UL, VDE | EG-Konf. | Special Test Certificate |

## 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=5SJ4303-7HG42

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/5SJ4303-7HG42


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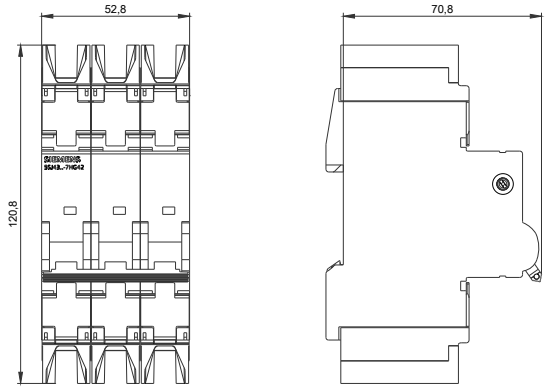
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4303-7HG42

**CAx-Online-Generator**
http://www.siemens.com/cax

**Tender specifications**
http://www.siemens.com/specifications





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