



Circuit breaker 10kA, 3-pole, C, 1.6 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                                                                    |
| mechanical service life (switching cycles) / typical                                 | 20 000                                                               |
| 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                                                                              |                                                                      |
| insulation voltage / at AC / rated value                                             | 440 V                                                                |
| Supply voltage                                                                       |                                                                      |
| type of voltage                                                                      | AC/DC                                                                |
| operational current / at AC / rated value                                            | 1.6 A                                                                |
| supply voltage / at AC / rated value                                                 | 400 V                                                                |
| 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 / 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                                                                |
| 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                         | 1.6 W                                                                |

|                                                                                                           |                                                                          |
|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| hot operating state / per pole                                                                            |                                                                          |
| <b>Main circuit</b>                                                                                       |                                                                          |
| 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                                        |
| <b>Product details</b>                                                                                    |                                                                          |
| 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 / installable / supplementary devices                                                   | Yes                                                                      |
| <b>Product function</b>                                                                                   |                                                                          |
| product function / note                                                                                   | Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in                |
| <b>Short circuit</b>                                                                                      |                                                                          |
| breaking capacity short-circuit current (I <sub>cn</sub> ) / at AC / acc. to UL 1077 and CSA C22.2 No.235 | 10 kA                                                                    |
| <b>Connections</b>                                                                                        |                                                                          |
| connectable conductor cross-section / finely stranded / with core end processing                          |                                                                          |
| • minimum                                                                                                 | 1.5 mm <sup>2</sup>                                                      |
| • maximum                                                                                                 | 25 mm <sup>2</sup>                                                       |
| position / of power supply cord                                                                           | Any                                                                      |
| <b>Mechanical Design</b>                                                                                  |                                                                          |
| height                                                                                                    | 121 mm                                                                   |
| width                                                                                                     | 54 mm                                                                    |
| depth                                                                                                     | 76 mm                                                                    |
| installation depth                                                                                        | 70 mm                                                                    |
| number of modular width units                                                                             | 3                                                                        |
| fastening method                                                                                          | on standard mounting rail                                                |
| mounting position                                                                                         | any                                                                      |
| net weight                                                                                                | 502 g                                                                    |
| <b>Environmental conditions</b>                                                                           |                                                                          |
| influence of the surrounding temperature                                                                  | max. 95% humidity                                                        |
| vibration resistance                                                                                      | 50 m/s <sup>2</sup> at 25 to 150Hz and 60m/s <sup>2</sup> at 35Hz (4sec) |
| vibration resistance / acc. to IEC 60068-2-6                                                              | 50 m/s <sup>2</sup> at 25 to 150Hz and 60m/s <sup>2</sup> at 35Hz (4sec) |
| ambient temperature                                                                                       |                                                                          |
| • minimum                                                                                                 | -25 °C                                                                   |
| • maximum                                                                                                 | 55 °C                                                                    |
| ambient temperature / during storage                                                                      |                                                                          |
| • minimum                                                                                                 | -40 °C                                                                   |
| • maximum                                                                                                 | 75 °C                                                                    |
| <b>Certificates</b>                                                                                       |                                                                          |
| reference code                                                                                            |                                                                          |
| • acc. to DIN EN 61346-2                                                                                  | F                                                                        |
| • acc. to IEC 81346-2                                                                                     | F                                                                        |
| <b>General Product Approval</b>                                                                           |                                                                          |
| Declaration of Conformity                                                                                 |                                                                          |



#### Test Certificates

[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=5SJ4315-7HG42>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4315-7HG42>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SJ4315-7HG42](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4315-7HG42)

**Tender specifications**

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

