

Circuit breaker 10kA, 2-pole, C, 5A according to UL 489-480Y/277V



| Model                                                                                |                                                                      |
|--------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Product brand name                                                                   | SETRON                                                               |
| Product designation                                                                  | Miniature circuit breakers                                           |
| Design of the product                                                                | Miniature circuit-breaker 5SJ4                                       |
| General technical data                                                               |                                                                      |
| Number of poles                                                                      | 2                                                                    |
| Number of poles / Note                                                               | 2P                                                                   |
| 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                                                                    |
| Voltage                                                                              |                                                                      |
| Insulation voltage / at AC / rated value                                             | 440 V                                                                |
| Supply voltage                                                                       |                                                                      |

|                                                                                                                                                                                                                                                                                                                                      |                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Type of voltage                                                                                                                                                                                                                                                                                                                      | AC/DC                                                      |
| Current / at AC / rated value                                                                                                                                                                                                                                                                                                        | 5 A                                                        |
| Supply voltage / at AC / rated value                                                                                                                                                                                                                                                                                                 | 400 V                                                      |
| Operating voltage <ul style="list-style-type: none"> <li>• at AC / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum</li> <li>• at DC / rated value / maximum</li> <li>• at DC / 1-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum</li> <li>• at DC / 2-channel / acc. to UL 489 and CSA C22.2 No. 5-02 / maximum</li> </ul> | 277 V<br>60 V<br>60 V<br>125 V                             |
| Supply voltage frequency <ul style="list-style-type: none"> <li>• rated value</li> </ul>                                                                                                                                                                                                                                             | 50 Hz                                                      |
| <b>Protection class</b>                                                                                                                                                                                                                                                                                                              |                                                            |
| Protection class IP                                                                                                                                                                                                                                                                                                                  | IP20, with connected conductors, IP 40 in the handle range |
| <b>Switching capacity</b>                                                                                                                                                                                                                                                                                                            |                                                            |
| Switching capacity current <ul style="list-style-type: none"> <li>• acc. to EN 60898 / rated value</li> <li>• acc. to IEC 60947-2 / rated value</li> </ul>                                                                                                                                                                           | 10 kA<br>15 kA                                             |
| <b>Dissipation</b>                                                                                                                                                                                                                                                                                                                   |                                                            |
| Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole                                                                                                                                                                                                                                          | 2.9 W                                                      |
| <b>Current</b>                                                                                                                                                                                                                                                                                                                       |                                                            |
| Tripping residual / rated value / derated current / at 40 Cel                                                                                                                                                                                                                                                                        | 5 A                                                        |
| <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 <ul style="list-style-type: none"> <li>• Tunnel terminals top</li> <li>• Tunnel terminals bottom</li> <li>• combined terminal top</li> <li>• combined terminal bottom</li> </ul>                                                                                                                                   | No<br>No<br>Yes<br>Yes                                     |
| Product feature <ul style="list-style-type: none"> <li>• halogen-free</li> <li>• sealable</li> <li>• silicon-free</li> </ul>                                                                                                                                                                                                         | Yes<br>Yes<br>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 <sub>cn</sub> ) / 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 mm <sup>2</sup>                                                      |
| • maximum                                                                                                 | 25 mm <sup>2</sup>                                                       |
| Position / of power supply cord                                                                           | Any                                                                      |
| Mechanical Design                                                                                         |                                                                          |
| Height                                                                                                    | 121 mm                                                                   |
| Width                                                                                                     | 36 mm                                                                    |
| Depth                                                                                                     | 76 mm                                                                    |
| Installation depth                                                                                        | 70 mm                                                                    |
| Number of width units                                                                                     | 2                                                                        |
| Mounting type                                                                                             | on standard mounting rail                                                |
| Mounting position                                                                                         | any                                                                      |
| Net weight                                                                                                | 337 g                                                                    |
| Environmental conditions                                                                                  |                                                                          |
| 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                                                                    |
| Certificates                                                                                              |                                                                          |
| Reference code                                                                                            |                                                                          |
| • acc. to DIN EN 61346-2                                                                                  | F                                                                        |
| • acc. to DIN EN 81346-2                                                                                  | F                                                                        |

| General Product Approval                                                          |                                                                                   |                                                                                   | Declaration of<br>Conformity                                                      | Test Certificates                        |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------|
|  |  |  |  | <a href="#">Special Test Certificate</a> |
| CCC                                                                               | UL                                                                                | VDE                                                                               | EG-Konf.                                                                          |                                          |

#### 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=5SJ4211-7HG42>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SJ4211-7HG42>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SJ4211-7HG42](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4211-7HG42)

**CAX-Online-Generator**

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

**Tender specifications**

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



