

Miniature circuit breaker 230/400 V 15kA, 1-pole, C, 10 A



| Model                                                              |                           |
|--------------------------------------------------------------------|---------------------------|
| product brand name                                                 | SENTRON                   |
| product designation                                                | Miniature circuit breaker |
| General technical data                                             |                           |
| number of poles                                                    | 1                         |
| number of poles / note                                             | 1P                        |
| tripping characteristic class                                      | C                         |
| mechanical service life (switching cycles) / typical               | 10 000                    |
| circuit-breaker / Design                                           | 5SY7CC                    |
| overvoltage category                                               | III                       |
| degree of pollution                                                | 3                         |
| Voltage                                                            |                           |
| insulation voltage                                                 |                           |
| • with single-phase operation / at AC / rated value                | 440 V                     |
| • with multi-phase operation / at AC / rated value                 | 440 V                     |
| supply voltage / with single-phase operation / at AC / rated value | 230 V                     |

|                                                                                             |                                   |
|---------------------------------------------------------------------------------------------|-----------------------------------|
| Supply voltage                                                                              |                                   |
| type of voltage                                                                             | AC                                |
| operational current / at AC / rated value                                                   | 10 A                              |
| • supply voltage / at AC / rated value                                                      | 400 V                             |
| operating voltage                                                                           |                                   |
| • at DC / rated value / maximum                                                             | 72 V                              |
| supply voltage frequency                                                                    |                                   |
| • rated value                                                                               | 50/60 Hz                          |
| Protection class                                                                            |                                   |
| protection class IP                                                                         | IP20, with connected conductors   |
| Switching capacity                                                                          |                                   |
| switching capacity current                                                                  |                                   |
| • acc. to EN 60898 / rated value                                                            | 15 kA                             |
| • acc. to IEC 60947-2 / rated value                                                         | 25 kA                             |
| Dissipation                                                                                 |                                   |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 1.1 W                             |
| Current                                                                                     |                                   |
| Tripping residual / rated value / derated current / at 40 Cel                               | 8.89 A                            |
| suitability for operation                                                                   | Mechanical engineering / industry |
| Product details                                                                             |                                   |
| product function / neutral conductor switching                                              | No                                |
| product feature / touch protection                                                          | Yes                               |
| product component                                                                           |                                   |
| • combined terminal top                                                                     | Yes                               |
| • combined terminal bottom                                                                  | Yes                               |
| product feature                                                                             |                                   |
| • properties for main switches in accordance with EN 60204-1                                | No                                |
| • halogen-free                                                                              | Yes                               |
| • sealable                                                                                  | Yes                               |
| • silicon-free                                                                              | Yes                               |
| product extension / installable / supplementary devices                                     | Yes                               |
| Short circuit                                                                               |                                   |
| breaking capacity short-circuit current (I <sub>cn</sub> )                                  |                                   |
| • at AC / acc. to UL 1077 and CSA C22.2 No.235                                              | 5 kA                              |
| Connections                                                                                 |                                   |
| connectable conductor cross-section / solid                                                 |                                   |

|                                                                                  |                                            |
|----------------------------------------------------------------------------------|--------------------------------------------|
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>   | 0.75 mm <sup>2</sup><br>35 mm <sup>2</sup> |
| connectable conductor cross-section / stranded                                   |                                            |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>   | 0.75 mm <sup>2</sup><br>35 mm <sup>2</sup> |
| connectable conductor cross-section / finely stranded / with core end processing |                                            |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>   | 0.75 mm <sup>2</sup><br>25 mm <sup>2</sup> |
| tightening torque [lbf·in] / with screw-type terminals                           |                                            |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>   | 22 lbf·in<br>31 lbf·in                     |
| tightening torque / with screw-type terminals                                    |                                            |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>   | 2.5 N·m<br>3.5 N·m                         |
| position / of power supply cord                                                  | Any                                        |

### Mechanical Design

|                               |                       |
|-------------------------------|-----------------------|
| height                        | 90 mm                 |
| width                         | 18 mm                 |
| depth                         | 76 mm                 |
| installation depth            | 70 mm                 |
| number of modular width units | 1                     |
| fastening method              | Quick assembly system |
| mounting position             | any                   |
| net weight                    | 165 g                 |

### Environmental conditions

|                                                                                |                                                      |
|--------------------------------------------------------------------------------|------------------------------------------------------|
| influence of the surrounding temperature                                       | max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C |
| vibration resistance / acc. to IEC 60068-2-6                                   | ±1mm at 5 to 25Hz; 50m/s <sup>2</sup> at 25 to 150Hz |
| ambient temperature                                                            |                                                      |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul> | -25 °C<br>55 °C                                      |
| ambient temperature / during storage                                           |                                                      |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul> | -40 °C<br>75 °C                                      |
| number of test cycles / for environmental testing / acc. to IEC 60068-2-30     | 28                                                   |

### Certificates

|                                                                                                           |        |
|-----------------------------------------------------------------------------------------------------------|--------|
| reference code                                                                                            |        |
| <ul style="list-style-type: none"> <li>• acc. to DIN EN 61346-2</li> <li>• acc. to IEC 81346-2</li> </ul> | F<br>F |

|                          |                                |         |
|--------------------------|--------------------------------|---------|
| General Product Approval | Declaration of Con-<br>formity | Railway |
|--------------------------|--------------------------------|---------|



[Miscellaneous](#)



[Confirmation](#)

#### 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=5SY7110-7CC>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY7110-7CC>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY7110-7CC](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY7110-7CC)

**CAX-Online-Generator**

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

**Tender specifications**

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



