

CIRCUIT BREAKER 230/400V 10KA, 1-POLE, D, 2A, D=70MM



| 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   | D                         |
| circuit-breaker / Design  | 5SY4                      |
| Mechanical service life (switching cycles) / typical  | 20 000                    |
| Overtoltage category  | 3                         |
| Voltage   |                           |
| Type of voltage   | AC/DC                     |
| Insulation voltage  |                           |
| <ul style="list-style-type: none"> <li>with single-phase operation / at AC / rated value</li> </ul> | 250 V                     |
| <ul style="list-style-type: none"> <li>with multi-phase operation / at AC / rated value</li> </ul>  | 440 V                     |
| Supply voltage  |                           |
| Supply voltage / at AC / rated value  | 400 V                     |

|   |                                   |
|---|-----------------------------------|
| <b>Supply voltage frequency</b>   |                                   |
| • rated value   | 50/60 Hz                          |
| <b>Protection class</b>   |                                   |
| <b>Protection class IP</b>  | IP20, with connected conductors   |
| <b>Energy limiting class</b>  | 3                                 |
| <b>Switching capacity</b>   |                                   |
| <b>Switching capacity current</b>   |                                   |
| • at DC / acc. to IEC 60947-2 / rated value                                       | 15 kA                             |
| • acc. to EN 60898 / rated value  | 10 kA                             |
| • acc. to IEC 60947-2 / rated value   | 35 kA                             |
| <b>Dissipation</b>  |                                   |
| <b>Power loss [W]</b>   |                                   |
| • for rated value of the current / at AC / in hot operating state / per pole      | 1.2 W                             |
| • maximum   | 1.2 W                             |
| <b>Electricity</b>  |                                   |
| rated current I <sub>n</sub> / IEC, DIN/VDE / at 40 Cel                           | 1.9 A                             |
| Current / at AC / rated value   | 2 A                               |
| <b>Suitability for operation</b>  | Mechanical engineering / industry |
| <b>Product details</b>  |                                   |
| Product feature / Touch protection  | Yes                               |
| <b>Product component</b>  |                                   |
| • combined terminal top   | Yes                               |
| • combined terminal bottom  | Yes                               |
| <b>Product feature</b>  |                                   |
| • Properties for main switches in accordance with EN 60204-1                      | Yes                               |
| • halogen-free  | Yes                               |
| • sealable  | Yes                               |
| • silicon-free  | Yes                               |
| Product extension / can be installed / supplementary devices                      | Yes                               |
| <b>Product function</b>   |                                   |
| Product function / neutral conductor switching                                    | No                                |
| <b>Short circuit</b>  |                                   |
| <b>Breaking capacity short-circuit current (I<sub>cn</sub>)</b>                   |                                   |
| • at AC / acc. to UL 1077 and CSA C22.2 No.235                                    | 5 kA                              |
| <b>Number</b>   |                                   |
| <b>Number of test cycles / for environmental testing / acc. to IEC 60068-2-30</b> | 6                                 |

| Connections  |   |
|--|---|
| <b>Connectable conductor cross-section / stranded</b>            |   |
| • minimum  | 0.75 mm <sup>2</sup>  |
| • maximum  | 35 mm <sup>2</sup>  |
| <b>Connectable conductor cross-section</b>                       |   |
| • solid  |   |
| — minimum  | 0.75 mm <sup>2</sup>  |
| — maximum  | 35 mm <sup>2</sup>  |
| • finely stranded / with core end processing                     |   |
| — minimum  | 0.75 mm <sup>2</sup>  |
| — maximum  | 25 mm <sup>2</sup>  |
| <b>AWG number / as coded connectable conductor cross section</b> |   |
| • minimum  | 14  |
| • maximum  | 4   |
| <b>Tightening torque [lbf·in] / with screw-type terminals</b>    |   |
| • minimum  | 22 lbf·in   |
| • maximum  | 26 lbf·in   |
| <b>Tightening torque / with screw-type terminals</b>             |   |
| • minimum  | 2.5 N·m   |
| • maximum  | 3 N·m   |
| Position / of power supply cord                                  | Any   |
| Mechanical Design  |   |
| Height   | 90 mm   |
| Width  | 18 mm   |
| Depth  | 76 mm   |
| Mounting position  | any   |
| Installation depth   | 70 mm   |
| Number of width units  | 1   |
| Mounting type  | Quick assembly system   |
| Net weight   | 151 g   |
| Environmental conditions   |   |
| Degree of pollution  | 3   |
| Influence of the surrounding temperature                         | Max. 95% humidity   |
| Vibration resistance / acc. to IEC 60068-2-6                     | 50m/s <sup>2</sup> at 25 to 150Hz and 60m/s <sup>2</sup> at 35Hz (4sec) |
| <b>Ambient temperature</b>                                       |   |
| • minimum  | -25 °C  |
| • maximum  | 55 °C   |
| • during storage / minimum                                       | -40 °C  |
| • during storage / maximum                                       | 75 °C   |
| Certificates   |   |

## General Product Approval



CCC



IMQ



UL



VDE



RCM

[Miscellaneous](#)

## Declaration of Conformity



EG-Konf.

## Test Certificates

[Special Test Certificate](#)
[Miscellaneous](#)

## Shipping Approval



ABS



BUREAU VERITAS



LRS

## Shipping Approval



RINA

## 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=5SY4102-8>
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
<https://support.industry.siemens.com/cs/ww/en/ps/5SY4102-8>
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY4102-8](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4102-8)
**CAX-Online-Generator**
<http://www.siemens.com/cax>
**Tender specifications**
<http://www.siemens.com/specifications>



