

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



| Model                 |  |                                |
|-----------------------|--|--------------------------------|
| product brandname     |  | SENTRON                        |
| Product designation   |  | 5SY miniature circuit breaker  |
| Design of the product |  | 5SY miniature circuit breakers |

| 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 |
| Overvoltage 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> | V | 250   |
| <ul style="list-style-type: none"> <li>with multi-phase operation / at AC / rated value</li> </ul>  | V | 440   |

### Supply voltage

|   |    |                                 |
|---|----|---------------------------------|
| Supply voltage / at AC / rated value  | V  | 400                             |
| <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                                       | kA | 15                              |
| • acc. to EN 60898 / rated value  | kA | 10                              |
| • acc. to IEC 60947-2 / rated value   | kA | 35                              |
| <b>Dissipation</b>  |    |                                 |
| <b>Power loss [W]</b>   |    |                                 |
| • for rated value of the current / at AC / in hot operating state / per pole      | W  | 1.1                             |
| • maximum   | W  | 1.1                             |
| <b>Electricity</b>  |    |                                 |
| rated current I <sub>n</sub> / IEC, DIN/VDE / at 40 Cel                           | A  | 0.95                            |
| Current / at AC / rated value   | A  | 1                               |
| <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                                    | kA | 5                               |
| • at DC / acc. to EN 60898-2  | kA | 10                              |
| <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  | mm <sup>2</sup> | 0.75 |
| • maximum  | mm <sup>2</sup> | 35   |
| <b>Connectable conductor cross-section</b>                       |                 |      |
| • solid  |                 |      |
| — minimum  | mm <sup>2</sup> | 0.75 |
| — maximum  | mm <sup>2</sup> | 35   |
| • finely stranded / with core end processing                     |                 |      |
| — minimum  | mm <sup>2</sup> | 0.75 |
| — maximum  | mm <sup>2</sup> | 25   |
| <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  | lbf·in          | 22   |
| • maximum  | lbf·in          | 26   |
| <b>Tightening torque / with screw-type terminals</b>             |                 |      |
| • minimum  | N·m             | 2.5  |
| • maximum  | N·m             | 3    |
| Position / of power supply cord                                  |                 | Any  |

| Mechanical Design            |    |                       |
|------------------------------|----|-----------------------|
| <b>Height</b>                | mm | 90                    |
| <b>Width</b>                 | mm | 18                    |
| <b>Depth</b>                 | mm | 76                    |
| <b>Mounting position</b>     |    | any                   |
| <b>Installation depth</b>    | mm | 70                    |
| <b>Number of width units</b> |    | 1                     |
| <b>Mounting type</b>         |    | Quick assembly system |
| <b>Net weight</b>            | g  | 171                   |

| Environmental conditions                        |    |   |
|---|----|---|
| <b>Influence of the surrounding temperature</b> |    | Max. 95% humidity   |
| Shock resistance / acc. to IEC 60068-2-27       |    | 150m/s <sup>2</sup> at 11ms half-sine                                   |
| 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                                       | °C | -25   |
| • maximum                                       | °C | 55  |
| • during storage / minimum                      | °C | -40   |
| • during storage / maximum                      | °C | 75  |

## Certificates

## General Product Approval



CCC



IMQ



UL



VDE

[sonstig](#)General  
Product  
ApprovalDeclaration of  
Conformity

Test Certificates

Shipping Approval



RCM



EG-Konf.

[spezielle  
Prüfbescheinigung  
n](#)
[sonstig](#)BUREAU  
VERITAS

DNV

## Shipping Approval



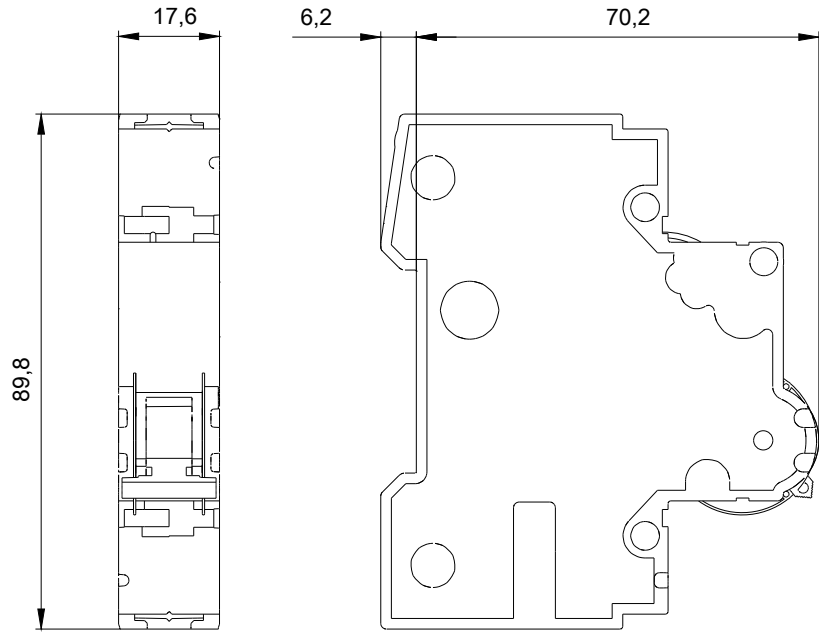
LRS



RINA

## Further information

**Information- and Downloadcenter (Catalogs, Brochures,...)**<http://www.siemens.com/lowvoltage/catalogs>**Industry Mall (Online ordering system)**<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/5SY4101-8>**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**<http://support.automation.siemens.com/WW/view/en/5SY4101-8/all>**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY4101-8](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4101-8)**CAX-Online-Generator**<http://www.siemens.com/cax>**Tender specifications**<http://ausschreibungstexte.siemens.com/tiplv>



last modified:

09/22/2016