



CIRCUIT BREAKER 230/400V 15KA, 1-POLE, C, 1.6A, D=70MM

| Model                 |  |                                |
|-----------------------|--|--------------------------------|
| product brand name    |  | 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                        |  | C      |
| circuit-breaker / Design                             |  | 5SY7   |
| Mechanical service life (switching cycles) / typical |  | 20 000 |
| Overvoltage category                                 |  | 3      |

| Voltage   |   |     |
|---|---|-----|
| <b>Insulation voltage</b>   |   |     |
| <ul style="list-style-type: none"> <li>with single-phase operation / with AC / Rated value</li> </ul> | V | 250 |
| <ul style="list-style-type: none"> <li>with multi-phase operation / with AC / Rated value</li> </ul>  | V | 440 |

| Supply voltage                         |    |    |
|--|----|----|
| Supply voltage frequency / Rated value | Hz | 50 |

| Protection class      |  |                                 |
|-----------------------|--|---------------------------------|
| Protection class IP   |  | IP20, with connected conductors |
| Energy limiting class |  | 3                               |

### Switching capacity

| Switching capacity current                   |    |    |
|--|----|----|
| • for DC / acc. to IEC 60947-2 / Rated value | kA | 15 |
| • acc. to EN 60898 / Rated value             | kA | 15 |
| • acc. to IEC 60947-2 / Rated value          | kA | 50 |

### Dissipation

| Active power loss  |   |     |
|--|---|-----|
| • for rated value of the current / with AC / in hot operating state / per pole | W | 1.2 |

### Electricity

|  |   |      |
|--|---|------|
| rated current $I_n$ / IEC, DIN/VDE / at 40 Cel | A | 1.52 |
| Current / with AC / Rated value                | A | 1.6  |

### Product details

|  |  |     |
|--|--|-----|
| Product feature / Touch protection                           |  | Yes |
| <b>Product component</b>                                     |  |     |
| • combined terminal top                                      |  | Yes |
| • combined terminal bottom                                   |  | Yes |
| <b>Product property</b>                                      |  |     |
| • Properties for main switches in accordance with EN 60204-1 |  | Yes |
| • halogen-free   |  | Yes |
| • sealable   |  | Yes |
| • silicon-free   |  | Yes |
| Product expansion / can be installed / supplementary devices |  | Yes |

### Product function

|  |  |    |
|--|--|----|
| Product function / neutral conductor switching |  | No |
|--|--|----|

### Short circuit

| Breaking capacity short-circuit current ( $I_{cn}$ ) |    |    |
|--|----|----|
| • with AC / acc. to UL 1077 and CSA C22.2 No.235     | kA | 5  |
| • for DC / acc. to EN 60898-2                        | kA | 15 |

### Number

|  |  |   |
|--|--|---|
| Number of test cycles / for environmental testing / acc. to IEC 60068-2-30 |  | 6 |
|--|--|---|

### Connections

| Connectable conductor cross-section / stranded |                 |      |
|--|-----------------|------|
| • 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 |

### 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

|  |  |   |
|--|--|---|
| Equipment marking / acc. to DIN EN 61346-2 |  | F |
|--|--|---|

## General Product Approval



CCC



IMQ



GOST



UL



VDE



## Declaration of Conformity

## Shipping Approval



EG-Konf.



BUREAU  
VERITAS



DNV



GL



LRS



RINA

## other

[other](#)

## 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/5SY71157>

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

<http://support.automation.siemens.com/WW/view/en/5SY71157/all>

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

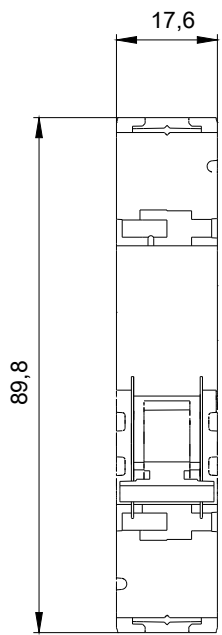
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY71157](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY71157)

### CAX-Online-Generator

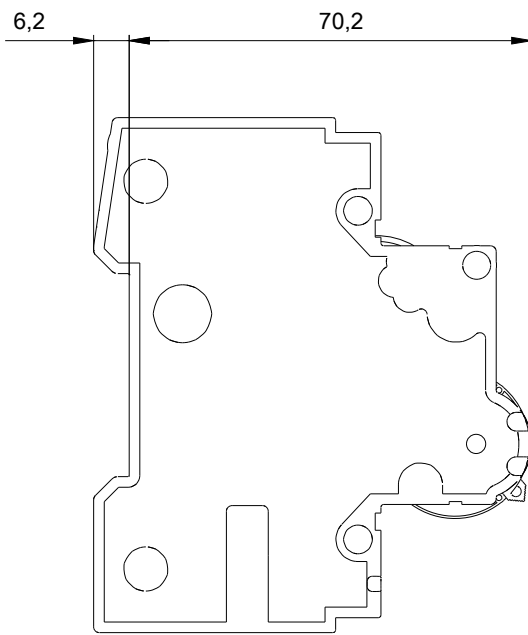
<http://www.siemens.com/cax>

### Tender specifications

<http://ausschreibungstexte.siemens.com/tiplv>



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