

CIRCUIT BREAKER 230/400V 6KA, 1-POLE, B, 25A, D=70MM



Figure similar

| 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   |    | B                               |
| circuit-breaker / Design  |    | 5SY6                            |
| 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 / 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 / with AC / Rated value  | V  | 400                             |
| 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 | 6  |
| • acc. to IEC 60947-2 / Rated value          | kA | 15 |

## Dissipation

### Active power loss

|  |   |     |
|--|---|-----|
| • for rated value of the current / with AC / in hot operating state / per pole | W | 2.4 |
|--|---|-----|

## Electricity

|  |   |    |
|--|---|----|
| rated current $I_n$ / IEC, DIN/VDE / at 40 Cel | A | 24 |
| Current / with AC / Rated value                | A | 25 |

## Product details

|                                    |  |     |
|------------------------------------|--|-----|
| Product feature / Touch protection |  | Yes |
|------------------------------------|--|-----|

### Product component

|                            |     |
|----------------------------|-----|
| • combined terminal top    | Yes |
| • combined terminal bottom | Yes |

### Product property

|  |     |
|--|-----|
| • 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 | 10 |

## 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   |

### Connectable conductor cross-section

|   |                 |      |
|---|-----------------|------|
| <ul style="list-style-type: none"> <li>• solid               <ul style="list-style-type: none"> <li>— minimum</li> <li>— maximum</li> </ul> </li> <li>• finely stranded / with core end processing               <ul style="list-style-type: none"> <li>— minimum</li> <li>— maximum</li> </ul> </li> </ul> | mm <sup>2</sup> | 0.75 |
|   | mm <sup>2</sup> | 35   |
|   | mm <sup>2</sup> | 0.75 |
|   | mm <sup>2</sup> | 25   |
| <b>AWG number / as coded connectable conductor cross section</b>  |                 |      |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>  |                 | 14   |
|   |                 | 4    |
| <b>Tightening torque [lbf·in] / with screw-type terminals</b>   |                 |      |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>  | lbf·in          | 22   |
|   | lbf·in          | 26   |
| <b>Tightening torque / with screw-type terminals</b>  |                 |      |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>  | N·m             | 2.5  |
|   | 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  | 158                   |

#### 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>   |    |   |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> <li>• during storage / minimum</li> <li>• during storage / maximum</li> </ul> | °C | -25   |
|  | °C | 55  |
|  | °C | -40   |
|  | °C | 75  |

#### Certificates

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

## General Product Approval



CCC



IMQ



UL



VDE

[other](#)



Declaration of  
Conformity

Test  
Certificates

Shipping Approval



EG-Konf.

[other](#)



BUREAU  
VERITAS



DNV



GL



LRS

## Shipping Approval



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/5SY61256>

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

<http://support.automation.siemens.com/WW/view/en/5SY61256/all>

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

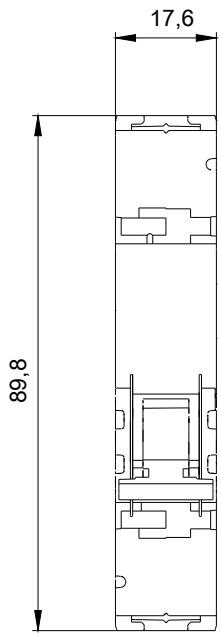
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY61256](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY61256)

**CAX-Online-Generator**

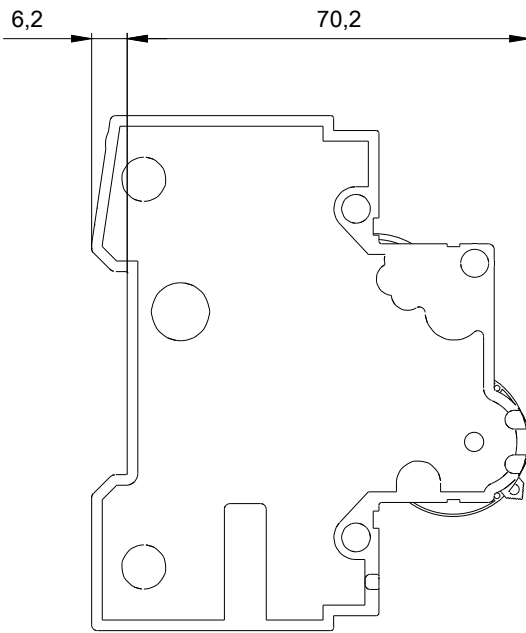
<http://www.siemens.com/cax>

**Tender specifications**

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



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