

CIRCUIT BREAKER 230/400V 10KA, 1-POLE, D, 20A, 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   |    | 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 / 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   |                 |      |
|--|-----------------|------|
| <b>Switching capacity current</b>  |                 |      |
| • for 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              | 20   |
| Dissipation  |                 |      |
| <b>Active power loss</b>   |                 |      |
| • for rated value of the current / with AC / in hot operating state / per pole | W               | 1.6  |
| Electricity  |                 |      |
| rated current I <sub>n</sub> / IEC, DIN/VDE / at 40 Cel                        | A               | 18.8 |
| Current / with AC / Rated value  | A               | 20   |
| 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  |                 |      |
| <b>Breaking capacity short-circuit current (I<sub>cn</sub>)</b>                |                 |      |
| • 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  |                 |      |
| <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>                                     |                 |      |

|   |  |                          |
|---|--|--------------------------|
| <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><br>mm <sup>2</sup><br>mm <sup>2</sup><br>mm <sup>2</sup> | 0.75<br>35<br>0.75<br>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<br>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<br>lbf·in   | 22<br>26                 |
| <b>Tightening torque / with screw-type terminals</b>  |  |                          |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>  | N·m<br>N·m   | 2.5<br>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  | 162                   |

#### 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<br>°C<br>°C<br>°C | -25<br>55<br>-40<br>75  |

#### Certificates

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

## General Product Approval



CCC



IMQ



GOST



UL



VDE



Declaration of  
Conformity

Test Certificates

Shipping Approval



EG-Konf.

[Special Test  
Certificate](#)

[other](#)



DNV

Lloyd's  
Register

LRS

Shipping  
Approval

other



RINA

[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/5SY41208>

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

<http://support.automation.siemens.com/WW/view/en/5SY41208/all>

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

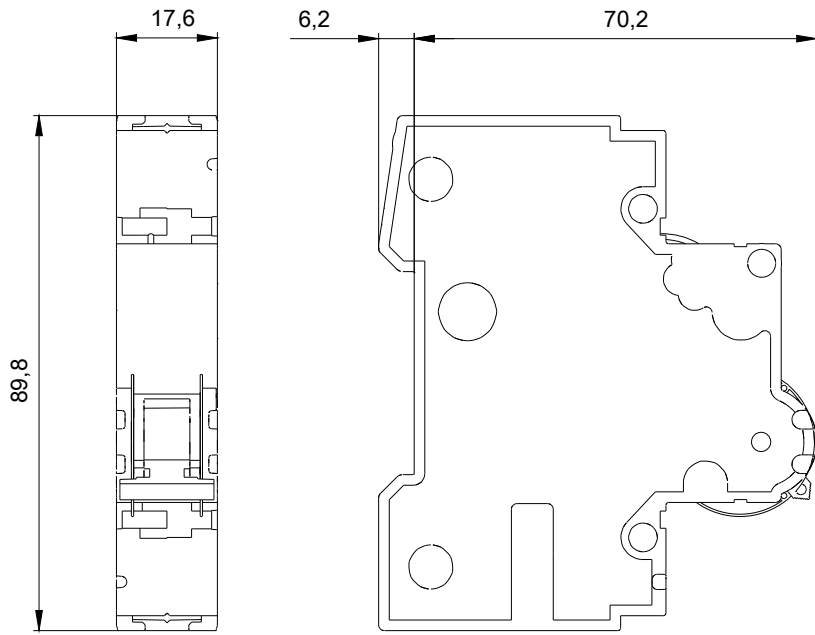
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=5SY41208](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=5SY41208)

**CAX-Online-Generator**

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

**Tender specifications**

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



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