

Miniature circuit breaker 400 V D=70 mm 25 kA according to EN 60947-2, 3P+N, D1



| Model   |                           |
|---|---------------------------|
| Product brand name  | SENTRON                   |
| Product designation   | Miniature circuit breaker |
| General technical data  |                           |
| Number of poles   | 4                         |
| Number of poles / Note  | 3P+N                      |
| Tripping characteristic class   | D                         |
| circuit-breaker / Design  | 5SY8                      |
| Mechanical service life (switching cycles) / typical  | 10 000                    |
| Overvoltage category  | III                       |
| Voltage   |                           |
| Insulation voltage  |                           |
| <ul style="list-style-type: none"> <li>with single-phase operation / at AC / rated value</li> </ul> | 440 V                     |
| <ul style="list-style-type: none"> <li>with multi-phase operation / at AC / rated value</li> </ul>  | 440 V                     |
| Supply voltage / with single-phase operation / at AC / rated value                                  | 230 V                     |
| Supply voltage  |                           |

|                                 |          |
|---------------------------------|----------|
| Type of voltage                 | AC       |
| Current / at AC / rated value   | 1 A      |
| Supply voltage                  |          |
| • at AC / rated value           | 400 V    |
| Operating voltage               |          |
| • at DC / rated value / maximum | 72 V     |
| Supply voltage frequency        |          |
| • rated value                   | 50/60 Hz |

|                         |                                 |
|-------------------------|---------------------------------|
| <b>Protection class</b> |                                 |
| Protection class IP     | IP20, with connected conductors |

|   |       |
|---|-------|
| <b>Switching capacity</b>                   |       |
| Switching capacity current                  |       |
| • at DC / acc. to IEC 60947-2 / rated value | 15 kA |
| • acc. to IEC 60947-2 / rated value         | 70 kA |

|   |                                   |
|---|-----------------------------------|
| <b>Dissipation</b>  |                                   |
| Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 1.1 W                             |
| Suitability for operation   | Mechanical engineering / industry |

|  |     |
|--|-----|
| <b>Product details</b>                                       |     |
| Product function / neutral conductor switching               | Yes |
| Product feature / Touch protection                           | Yes |
| Product component  |     |
| • combined terminal top                                      | Yes |
| • combined terminal bottom                                   | Yes |
| Product feature  |     |
| • 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>Short circuit</b>                                       |      |
| Breaking capacity short-circuit current (I <sub>cn</sub> ) |      |
| • at AC / acc. to UL 1077 and CSA C22.2 No.235             | 5 kA |

|                                       |                             |
|---------------------------------------|-----------------------------|
| <b>Connections</b>                    |                             |
| • Connectable conductor cross-section |                             |
| — solid                               | 0.75 ... 35 mm <sup>2</sup> |
| — stranded                            | 0.75 ... 35 mm <sup>2</sup> |

|  |                             |
|--|-----------------------------|
| • Connectable conductor cross-section / finely stranded / with core end processing | 0.75 ... 25 mm <sup>2</sup> |
| AWG number / as coded connectable conductor cross section                          | 18 ... 4                    |
| Tightening torque [lbf·in] / with screw-type terminals                             | 22 ... 31 lbf·in            |
| Tightening torque / with screw-type terminals                                      | 2.5 ... 3.5 N·m             |
| Position / of power supply cord  | Any                         |

### Mechanical Design

|                       |                       |
|-----------------------|-----------------------|
| Height                | 90 mm                 |
| Width                 | 72 mm                 |
| Depth                 | 76 mm                 |
| Installation depth    | 70 mm                 |
| Number of width units | 4                     |
| Mounting type         | Quick assembly system |
| Mounting position     | any                   |
| Net weight            | 660 g                 |

### Environmental conditions

|  |  |
|--|--|
| Influence of the surrounding temperature | max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C |
| Ambient temperature                      | -25 ... +55 °C                                       |
| • during storage                         | -40 ... +75 °C                                       |

### Certificates

|                          |   |
|--------------------------|---|
| Reference code           |   |
| • acc. to DIN EN 61346-2 | F |
| • acc. to DIN EN 81346-2 | F |

|                                 |                                  |
|---------------------------------|----------------------------------|
| <b>General Product Approval</b> | <b>Declaration of Conformity</b> |
|---------------------------------|----------------------------------|



[Miscellaneous](#)



### 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=5SY8601-8>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY8601-8>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY8601-8](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY8601-8)

**CAX-Online-Generator**

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

**Tender specifications**

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

