

Circuit breaker 230/400 V D=70 mm 25 kA according to EN 60947-2, 1P, D6



| Model                                                              |                           |
|--------------------------------------------------------------------|---------------------------|
| Product brand name                                                 | SENTRON                   |
| Product designation                                                | Miniature circuit breaker |
| General technical data                                             |                           |
| Number of poles                                                    | 1                         |
| Number of poles / Note                                             | 1P                        |
| Tripping characteristic class                                      | D                         |
| circuit-breaker / Design                                           | 5SY8                      |
| Mechanical service life (switching cycles) / typical               | 10 000                    |
| Overvoltage category                                               | III                       |
| Degree of pollution                                                | 3                         |
| Voltage                                                            |                           |
| Insulation voltage                                                 |                           |
| • with single-phase operation / at AC / rated value                | 440 V                     |
| • with multi-phase operation / at AC / rated value                 | 440 V                     |
| Supply voltage / with single-phase operation / at AC / rated value | 230 V                     |

|                                                                                             |                                   |
|---------------------------------------------------------------------------------------------|-----------------------------------|
| Supply voltage                                                                              |                                   |
| Type of voltage                                                                             | AC                                |
| Operating current / at AC / rated value                                                     | 6 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                          |
| Protection class                                                                            |                                   |
| Protection class IP                                                                         | IP20, with connected conductors   |
| Switching capacity                                                                          |                                   |
| Switching capacity current                                                                  |                                   |
| • at DC / acc. to IEC 60947-2 / rated value                                                 | 15 kA                             |
| • acc. to IEC 60947-2 / rated value                                                         | 50 kA                             |
| Dissipation                                                                                 |                                   |
| Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 1.6 W                             |
| Suitability for operation                                                                   | Mechanical engineering / industry |
| Product details                                                                             |                                   |
| Product function / neutral conductor switching                                              | No                                |
| 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                               |
| Short circuit                                                                               |                                   |
| Breaking capacity short-circuit current (I <sub>cn</sub> )                                  |                                   |
| • at AC / acc. to UL 1077 and CSA C22.2 No.235                                              | 5 kA                              |
| Connections                                                                                 |                                   |
| Connectable conductor cross-section / solid                                                 |                                   |
| • minimum                                                                                   | 0.75 mm <sup>2</sup>              |
| • maximum                                                                                   | 35 mm <sup>2</sup>                |

|                                                                                  |                      |
|----------------------------------------------------------------------------------|----------------------|
| Connectable conductor cross-section / stranded                                   |                      |
| • minimum                                                                        | 0.75 mm <sup>2</sup> |
| • maximum                                                                        | 35 mm <sup>2</sup>   |
| Connectable conductor cross-section / finely stranded / with core end processing |                      |
| • minimum                                                                        | 0.75 mm <sup>2</sup> |
| • maximum                                                                        | 25 mm <sup>2</sup>   |
| AWG number / as coded connectable conductor cross section                        |                      |
| • minimum                                                                        | 18                   |
| • maximum                                                                        | 4                    |
| Tightening torque [lbf·in] / with screw-type terminals                           |                      |
| • minimum                                                                        | 22 lbf·in            |
| • maximum                                                                        | 31 lbf·in            |
| Tightening torque / with screw-type terminals                                    |                      |
| • minimum                                                                        | 2.5 N·m              |
| • maximum                                                                        | 3.5 N·m              |
| Position / of power supply cord                                                  | Any                  |

#### Mechanical Design

|                       |                       |
|-----------------------|-----------------------|
| Height                | 90 mm                 |
| Width                 | 18 mm                 |
| Depth                 | 76 mm                 |
| Installation depth    | 70 mm                 |
| Number of width units | 1                     |
| Mounting type         | Quick assembly system |
| Mounting position     | any                   |
| Net weight            | 158 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                                                        |                                                      |
| • minimum                                                                  | -25 °C                                               |
| • maximum                                                                  | 55 °C                                                |
| Ambient temperature / during storage                                       |                                                      |
| • minimum                                                                  | -40 °C                                               |
| • maximum                                                                  | 75 °C                                                |
| Number of test cycles / for environmental testing / acc. to IEC 60068-2-30 | 6                                                    |

#### Certificates

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



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[Miscellaneous](#)

EG-Konf.

## 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=5SY8106-8>**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**<https://support.industry.siemens.com/cs/ww/en/ps/5SY8106-8>**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY8106-8](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY8106-8)**CAX-Online-Generator**<http://www.siemens.com/cax>**Tender specifications**<http://www.siemens.com/specifications>

