

CIRCUIT BREAKER 400V 25KA, 3POLE, D, 10A, D=70MM



| Model  |                            |
|--|----------------------------|
| product brandname  | SENTRON                    |
| Product designation  | Miniature circuit breakers |
| General technical data   |                            |
| Number of poles  | 3                          |
| Number of poles / Note   | 3P                         |
| Tripping characteristic class  | D                          |
| circuit-breaker / Design   | 5SY8                       |
| Mechanical service life (switching cycles) / typical   | 20 000                     |
| Overvoltage category   | 3                          |
| Voltage  |                            |
| Type of voltage  | AC/DC                      |
| Insulation voltage   | 440 V                      |
| <ul style="list-style-type: none"> <li>with multi-phase operation / at AC / rated value</li> </ul> | 440 V                      |
| Supply voltage   |                            |
| Supply voltage / at AC / rated value   | 400 V                      |
| Protection class   |                            |

|  |                                 |
|--|---------------------------------|
| <b>Protection class IP</b>   | IP20, with connected conductors |
| <b>Energy limiting class</b>   | 3                               |
| <b>Switching capacity</b>  |                                 |
| <b>Switching capacity current</b>  |                                 |
| <ul style="list-style-type: none"> <li>• acc. to IEC 60947-2 / rated value</li> </ul>  | 40 kA                           |
| <b>Dissipation</b>   |                                 |
| <b>Power loss [W]</b>  |                                 |
| <ul style="list-style-type: none"> <li>• for rated value of the current / at AC / in hot operating state / per pole</li> </ul> | 0.9 W                           |
| <ul style="list-style-type: none"> <li>• maximum</li> </ul>  | 2.7 W                           |
| <b>Electricity</b>   |                                 |
| rated current I <sub>n</sub> / IEC, DIN/VDE / at 40 Cel  | 9.6 A                           |
| Current / at AC / rated value  | 10 A                            |
| <b>Product details</b>   |                                 |
| Product feature / Touch protection   | Yes                             |
| <b>Product component</b>   |                                 |
| <ul style="list-style-type: none"> <li>• combined terminal top</li> </ul>  | Yes                             |
| <ul style="list-style-type: none"> <li>• combined terminal bottom</li> </ul>   | Yes                             |
| <b>Product feature</b>   |                                 |
| <ul style="list-style-type: none"> <li>• Properties for main switches in accordance with EN 60204-1</li> </ul>                 | Yes                             |
| <ul style="list-style-type: none"> <li>• halogen-free</li> </ul>   | Yes                             |
| <ul style="list-style-type: none"> <li>• sealable</li> </ul>   | Yes                             |
| <ul style="list-style-type: none"> <li>• silicon-free</li> </ul>   | Yes                             |
| Product extension / can be installed / supplementary devices   | Yes                             |
| <b>Product function</b>  |                                 |
| Product function / neutral conductor switching   | No                              |
| <b>Short circuit</b>   |                                 |
| <b>Breaking capacity short-circuit current (I<sub>cn</sub>)</b>  |                                 |
| <ul style="list-style-type: none"> <li>• at AC / acc. to UL 1077 and CSA C22.2 No.235</li> </ul>                               | 5 kA                            |
| <b>Number</b>  |                                 |
| <b>Number of test cycles / for environmental testing / acc. to IEC 60068-2-30</b>  | 6                               |
| <b>Connections</b>   |                                 |
| <b>Connectable conductor cross-section / stranded</b>  |                                 |
| <ul style="list-style-type: none"> <li>• minimum</li> </ul>  | 0.75 mm <sup>2</sup>            |
| <ul style="list-style-type: none"> <li>• maximum</li> </ul>  | 35 mm <sup>2</sup>              |
| <b>Connectable conductor cross-section</b>   |                                 |
| <ul style="list-style-type: none"> <li>• solid</li> </ul>  |                                 |

|  |                      |
|--|----------------------|
| — minimum  | 0.75 mm <sup>2</sup> |
| — maximum  | 35 mm <sup>2</sup>   |
| • finely stranded / with core end processing                     |                      |
| — minimum  | 0.75 mm <sup>2</sup> |
| — maximum  | 25 mm <sup>2</sup>   |
| <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  | 22 lbf·in            |
| • maximum  | 26 lbf·in            |
| <b>Tightening torque / with screw-type terminals</b>             |                      |
| • minimum  | 2.5 N·m              |
| • maximum  | 3 N·m                |
| Position / of power supply cord                                  | Any                  |

### Mechanical Design

|                              |                       |
|------------------------------|-----------------------|
| <b>Height</b>                | 90 mm                 |
| <b>Width</b>                 | 54 mm                 |
| <b>Depth</b>                 | 76 mm                 |
| <b>Mounting position</b>     | any                   |
| <b>Installation depth</b>    | 70 mm                 |
| <b>Number of width units</b> | 3                     |
| <b>Mounting type</b>         | Quick assembly system |
| <b>Net weight</b>            | 444 g                 |

### 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                                       | -25 °C  |
| • maximum                                       | 55 °C   |
| • during storage / minimum                      | -40 °C  |
| • during storage / maximum                      | 75 °C   |

### Certificates

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

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### 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=5SY8310-8>**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**<http://support.automation.siemens.com/WW/view/en/5SY8310-8/all>**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY8310-8](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY8310-8)**CAX-Online-Generator**<http://www.siemens.com/cax>**Tender specifications**<http://www.siemens.com/specifications>

