

CIRCUIT BREAKER 230V 25KA, 1+N-POLE, D, 40A, D=70M



| Model   |                           |
|---|---------------------------|
| Product brand name  | SENTRON                   |
| Product designation   | Miniature circuit breaker |
| General technical data  |                           |
| Number of poles   | 2                         |
| Number of poles / Note  | 1P+N                      |
| Tripping characteristic class   | D                         |
| characteristic / Let-through current characteristic   | DS_5SY_D_40               |
| circuit-breaker / Design  | 5SY8                      |
| Mechanical service life (switching cycles) / typical  | 20 000                    |
| Overvoltage category  | 3                         |
| Voltage   |                           |
| Type of voltage   | AC/DC                     |
| Insulation voltage  | 250 V                     |
| <ul style="list-style-type: none"> <li>with single-phase operation / at AC / rated value</li> </ul> |                           |
| Supply voltage  |                           |
| Supply voltage / at AC / rated value  | 230 V                     |

|  |                                   |
|--|-----------------------------------|
| <b>Supply voltage frequency</b>  |                                   |
| • rated value  | 50/60 Hz                          |
| <b>Protection class</b>  |                                   |
| <b>Protection class IP</b>   | IP20, with connected conductors   |
| <b>Energy limiting class</b>   | 3                                 |
| <b>Switching capacity</b>  |                                   |
| <b>Switching capacity current</b>  |                                   |
| • at DC / acc. to IEC 60947-2 / rated value                                  | 15 kA                             |
| • acc. to IEC 60947-2 / rated value  | 25 kA                             |
| <b>Dissipation</b>   |                                   |
| <b>Power loss [W]</b>  |                                   |
| • for rated value of the current / at AC / in hot operating state / per pole | 3 W                               |
| • maximum  | 6 W                               |
| <b>Electricity</b>   |                                   |
| rated current I <sub>n</sub> / IEC, DIN/VDE / at 40 Cel                      | 37.6 A                            |
| Current / at AC / rated value  | 40 A                              |
| <b>Current limitation characteristic, no. / Let-through energy</b>           | DE_5SY_D_40                       |
| <b>Suitability for operation</b>   | Mechanical engineering / industry |
| <b>Product details</b>   |                                   |
| Product feature / Touch protection   | Yes                               |
| <b>Product component</b>   |                                   |
| • combined terminal top  | Yes                               |
| • combined terminal bottom   | Yes                               |
| <b>Product feature</b>   |                                   |
| • 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>Product function</b>  |                                   |
| Product function / neutral conductor switching                               | Yes                               |
| <b>Short circuit</b>   |                                   |
| <b>Breaking capacity short-circuit current (I<sub>cn</sub>)</b>              |                                   |
| • at AC / acc. to UL 1077 and CSA C22.2 No.235                               | 5 kA                              |
| <b>Number</b>  |                                   |

|  |   |
|--|---|
| Number of test cycles / for environmental testing / acc. to IEC 60068-2-30 | 6   |
| <b>Connections</b>   |   |
| <b>Connectable conductor cross-section / stranded</b>                      |   |
| • minimum  | 0.75 mm <sup>2</sup>  |
| • maximum  | 35 mm <sup>2</sup>  |
| <b>Connectable conductor cross-section</b>                                 |   |
| • solid  |   |
| — 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   |
| <b>Mechanical Design</b>   |   |
| Height   | 90 mm   |
| Width  | 36 mm   |
| Depth  | 76 mm   |
| Mounting position  | any   |
| Installation depth   | 70 mm   |
| Number of width units  | 2   |
| Mounting type  | Quick assembly system   |
| Net weight   | 325 g   |
| <b>Environmental conditions</b>  |   |
| Degree of pollution  | 3   |
| Influence of the surrounding temperature                                   | Max. 95% humidity   |
| 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

### General Product Approval

### Declaration of Conformity



UL

[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=5SY8540-8>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY8540-8>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY8540-8](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY8540-8)

### CAX-Online-Generator

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

### Tender specifications

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



