

Miniature circuit breaker 230/400 V 6kA, 1-pole, B, 50 A



| Model   |                                |
|---|--------------------------------|
| Product brand name  | SENTRON                        |
| Product designation   | Miniature circuit breaker      |
| Design of the product   | 5SL miniature circuit breakers |
| General technical data  |                                |
| Number of poles   | 1                              |
| Number of poles / Note  | 1P                             |
| Tripping characteristic class   | B                              |
| circuit-breaker / Design  | 5SL6                           |
| Mechanical service life (switching cycles) / typical  | 10 000                         |
| Overvoltage category  | 3                              |
| Voltage   |                                |
| Insulation voltage  |                                |
| <ul style="list-style-type: none"> <li>with single-phase operation / at AC / rated value</li> </ul> | 250 V                          |
| <ul style="list-style-type: none"> <li>with multi-phase operation / at AC / rated value</li> </ul>  | 440 V                          |
| Supply voltage  |                                |
| Type of voltage   | AC                             |

|  |       |
|--|-------|
| Current / at AC / rated value                  | 50 A  |
| Supply voltage / at AC / rated value           | 400 V |
| Operating voltage                              |       |
| • with multi-phase operation / at AC / maximum | 440 V |
| • at DC / rated value / maximum                | 60 V  |
| Supply voltage frequency                       |       |
| • rated value                                  | 50 Hz |

### Protection class

|                     |                                 |
|---------------------|---------------------------------|
| Protection class IP | IP20, with connected conductors |
|---------------------|---------------------------------|

### Switching capacity

|                                     |      |
|-------------------------------------|------|
| Switching capacity current          |      |
| • acc. to EN 60898 / rated value    | 6 kA |
| • acc. to IEC 60947-2 / rated value | 6 kA |
| Energy limiting class               | 3    |

### Dissipation

|   |     |
|---|-----|
| Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 4 W |
|---|-----|

### Current

|   |                                      |
|---|--------------------------------------|
| Tripping residual / rated value / derated current / at 40 Cel | 46.97 A                              |
| Suitability for operation                                     | Residential buildings/infrastructure |

### Product details

|  |     |
|--|-----|
| Product function / neutral conductor switching               | No  |
| Product feature / Touch protection                           | Yes |
| Product feature  |     |
| • halogen-free   | Yes |
| • sealable   | Yes |
| • silicon-free   | Yes |
| Product extension / can be installed / supplementary devices | Yes |

### Connections

|  |                             |
|--|-----------------------------|
| • Connectable conductor cross-section  |                             |
| — solid  | 0.75 ... 25 mm <sup>2</sup> |
| — stranded   | 0.75 ... 25 mm <sup>2</sup> |
| • Connectable conductor cross-section / finely stranded / with core end processing | 0.75 ... 25 mm <sup>2</sup> |
| Tightening torque / with screw-type terminals                                      | 2.5 ... 3 N·m               |

### Mechanical Design

|        |       |
|--------|-------|
| Height | 90 mm |
| Width  | 18 mm |

|                       |       |
|-----------------------|-------|
| Depth                 | 76 mm |
| Installation depth    | 70 mm |
| Number of width units | 1     |
| Mounting position     | any   |
| Net weight            | 155 g |

#### Environmental conditions

|  |                                       |
|--|---------------------------------------|
| Influence of the surrounding temperature | Periodically +55°C, max. 95% humidity |
| Ambient temperature                      | -25 ... +45 °C                        |
| • during storage                         | -40 ... +75 °C                        |

#### Certificates

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

#### General Product Approval

#### Declaration of Conformity



#### 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=5SL6150-6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL6150-6>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SL6150-6](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL6150-6)

##### CAX-Online-Generator

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

##### Tender specifications

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



