

Miniature circuit breaker 230 V 6kA, 1+N-pole, C, 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   | 2                              |
| Number of poles / Note  | 1P+N                           |
| Tripping characteristic class   | C                              |
| circuit-breaker / Design  | 5SL6                           |
| Mechanical service life (switching cycles) / typical  | 10 000                         |
| Overvoltage category  | 3                              |
| Voltage   |                                |
| Insulation voltage  | 250 V                          |
| <ul style="list-style-type: none"> <li>with single-phase operation / at AC / rated value</li> </ul> |                                |
| Supply voltage  |                                |
| Type of voltage   | AC                             |
| Current / at AC / rated value   | 50 A                           |

|   |       |
|---|-------|
| Supply voltage / at AC / rated value  | 230 V |
| Operating voltage   |       |
| <ul style="list-style-type: none"> <li>• at DC / rated value / maximum</li> </ul> | 60 V  |
| Supply voltage frequency  |       |
| <ul style="list-style-type: none"> <li>• rated value</li> </ul>                   | 50 Hz |

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

|   |      |
|---|------|
| <b>Switching capacity</b>   |      |
| Switching capacity current  |      |
| <ul style="list-style-type: none"> <li>• acc. to EN 60898 / rated value</li> </ul>    | 6 kA |
| <ul style="list-style-type: none"> <li>• acc. to IEC 60947-2 / rated value</li> </ul> | 6 kA |
| Energy limiting class   | 3    |

|   |       |
|---|-------|
| <b>Dissipation</b>  |       |
| Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 3.8 W |

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

|  |     |
|--|-----|
| <b>Product details</b>   |     |
| Product function / neutral conductor switching                   | Yes |
| Product feature / Touch protection                               | Yes |
| Product feature  |     |
| <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>Connections</b>   |                             |
| <ul style="list-style-type: none"> <li>• Connectable conductor cross-section</li> </ul>  |                             |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— solid</li> </ul> </li> </ul>                        | 0.75 ... 25 mm <sup>2</sup> |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— stranded</li> </ul> </li> </ul>                     | 0.75 ... 25 mm <sup>2</sup> |
| <ul style="list-style-type: none"> <li>• Connectable conductor cross-section / finely stranded / with core end processing</li> </ul> | 0.75 ... 25 mm <sup>2</sup> |
| Tightening torque / with screw-type terminals  | 2.5 ... 3 N·m               |

|                          |       |
|--------------------------|-------|
| <b>Mechanical Design</b> |       |
| Height                   | 90 mm |
| Width                    | 36 mm |
| Depth                    | 76 mm |
| Installation depth       | 70 mm |

|                       |       |
|-----------------------|-------|
| Number of width units | 2     |
| Mounting position     | any   |
| Net weight            | 305 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=5SL6550-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL6550-7>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SL6550-7](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL6550-7)

##### CAX-Online-Generator

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

##### Tender specifications

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



