



Figure similar

Main miniature circuit breaker (SHU), 3x 1-pole, E 50A, 230/400 V Mounting on 40 mm busbars

| Model  |   |
|--|---|
| product brand name   | SENTRON   |
| product designation  | Miniature circuit breaker   |
| design of the product  | Main miniature circuit breaker  |
| design of the locking device   | Locking slide with lock, additional wire seal, cable ties and Antilux |
| General technical data   |   |
| number of poles  | 3   |
| design of pole   | 3P  |
| tripping characteristic class  | E   |
| mechanical service life (operating cycles) typical   | 20 000  |
| overvoltage category   | 4   |
| degree of pollution  | 3   |
| Voltage  |   |
| insulation voltage (U <sub>i</sub> ) rated value   | 690 V   |
| surge voltage resistance rated value   | 6 kV  |
| supply voltage with single-phase operation at AC rated value   | 230 V   |
| <ul style="list-style-type: none"> <li>● operational current                             <ul style="list-style-type: none"> <li>— at 30 °C rated value</li> <li>— at 40 °C rated value</li> <li>— at 50 °C rated value</li> <li>— at 55 °C rated value</li> </ul> </li> <li>● operational current at AC rated value</li> </ul> | 50 A<br>47.5 A<br>45 A<br>43.75 A<br>50 A                             |
| Supply voltage   |   |
| supply voltage at AC   | 400 V   |
| operating voltage rated value <ul style="list-style-type: none"> <li>● minimum</li> <li>● maximum</li> </ul>   | 110 V<br>440 V  |
| supply voltage frequency rated value   | 50 Hz   |
| Protection class   |   |
| protection class IP  | IP40, with connected conductors                                       |
| Breaking Capacity  |   |
| switching capacity current <ul style="list-style-type: none"> <li>● rated value</li> <li>● according to EN 60898 rated value</li> </ul>  | 25 kA<br>25 kA  |
| Dissipation  |   |
| power loss [W] for rated value of the current at AC in hot   | 8 W   |

|   |  |
|---|--|
| operating state per pole  |  |
| <b>suitability for operation</b>  | Residential buildings/infrastructure                               |
| <b>Product details</b>  |  |
| <b>product component</b>  |  |
| • outgoing feeder via spring-loaded terminal  | Yes  |
| • infeed at box terminal  | Yes  |
| <b>product feature properties for main switches in accordance with EN 60204-1</b>                             | Yes  |
| <b>product feature sealable</b>   | Yes  |
| <b>Display and operation</b>  |  |
| display version for switch position indicator   | OFF = green, ON = red  |
| <b>Connections</b>  |  |
| <b>connectable conductor cross-section of spring-loaded terminal finely stranded with core end processing</b> |  |
| • minimum   | 2.5 mm <sup>2</sup>  |
| • maximum   | 16 mm <sup>2</sup>   |
| <b>connectable conductor cross-section of the box terminal</b>  |  |
| • solid minimum   | 2.5 mm <sup>2</sup>  |
| • solid maximum   | 50 mm <sup>2</sup>   |
| • stranded minimum  | 2.5 mm <sup>2</sup>  |
| • stranded maximum  | 50 mm <sup>2</sup>   |
| <b>position of power supply cord</b>  | Stipulated by installation in the lower section of the meter panel |
| <b>Mechanical Design</b>  |  |
| <b>height</b>   | 151.3 mm   |
| <b>depth</b>  | 89.5 mm  |
| <b>depth of the enclosure</b>   | 76.3 mm  |
| <b>number of modular width units</b>  | 4.5  |
| <b>fastening method</b>   | Busbar   |
| fastening method other  | on 40-mm busbar system in compliance with DIN 43870 Part 2         |
| <b>Net Weight</b>   | 1.272 kg   |
| <b>Environmental conditions</b>   |  |
| <b>shock resistance</b>   | 30 g, at least 3 impacts, impact duration 11 ms                    |
| <b>vibration resistance according to IEC 60068-2-6</b>  | 2 g, 20 frequency cycles 5 to 150 to 15 Hz                         |
| <b>ambient temperature during operation</b>   |  |
| • minimum   | -25 °C   |
| • maximum   | 55 °C  |
| <b>ambient temperature during storage</b>   |  |
| • minimum   | -40 °C   |
| • maximum   | 70 °C  |

|                               |                                 |              |
|-------------------------------|---------------------------------|--------------|
| <b>Approvals Certificates</b> |                                 |              |
| <b>Environment</b>            | <b>General Product Approval</b> | <b>other</b> |

[Environmental Con-  
firmations](#)

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other

[Confirmation](#)

**Further information**

Information on the packaging  
<https://support.industry.siemens.com/cs/ww/en/view/109813875>  
Information for data generation and storage  
<https://support.industry.siemens.com/cs/ww/en/view/109995012>  
Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SP3850-2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SP3850-2>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SP3850-2](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SP3850-2)

CAx-Online-Generator

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

Tender specifications

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

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP='HAUPT'></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP='HAUPT'></mmp_prod_no>)





