



Miniature circuit breaker 400 V 6kA, 4-pole, C, 13A

| Model  |   |
|--|---|
| product brand name   | SENTRON   |
| product designation  | Miniature circuit breaker   |
| General technical data   |   |
| number of poles  | 4   |
| design of pole   | 4P  |
| tripping characteristic class  | C   |
| mechanical service life (operating cycles) typical   | 10 000  |
| overvoltage category   | 3   |
| degree of pollution  | 2   |
| Voltage  |   |
| type of voltage of the operating voltage   | AC  |
| type of voltage  | Use only in alternating current or direct current circuits. Mixed use is not permitted.                                       |
| insulation voltage (Ui)  |   |
| <ul style="list-style-type: none"> <li>with multi-phase operation at AC rated value</li> </ul>   | 440 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 55 °C rated value</li> </ul> </li> <li>operational current at AC rated value</li> </ul> | 13 A<br>12.37 A<br>11.36 A<br>13 A  |
| Supply voltage   |   |
| supply voltage at AC   | 400 V   |
| value range of the supply voltage frequency  | 50/60 Hz  |
| operating voltage  |   |
| <ul style="list-style-type: none"> <li>with multi-phase operation at AC maximum</li> <li>at DC rated value maximum</li> <li></li> </ul>  | 440 V<br>62.5 V<br>The operational voltage 62,5V DC/pole takes into account a battery charging voltage with peak value of 72V |
| Protection class   |   |
| protection class IP  | IP20, with connected conductors   |
| Breaking Capacity  |   |
| switching capacity current   |   |
| <ul style="list-style-type: none"> <li>according to EN 60898 rated value</li> <li>according to IEC 60947-2 rated value</li> </ul>  | 6 kA<br>6 kA  |
| energy limitation class  | 3   |
| Dissipation  |   |
| power loss [W] for rated value of the current at AC in hot operating state per pole  | 1.9 W   |

|                           |                                      |
|---------------------------|--------------------------------------|
| suitability for operation | Residential buildings/infrastructure |
|---------------------------|--------------------------------------|

### Product details

|   |     |
|---|-----|
| product feature touch protection                    | Yes |
| product component neutral conductor switching       | No  |
| product feature halogen-free                        | Yes |
| product feature sealable                            | Yes |
| product feature silicon-free                        | Yes |
| product extension installable supplementary devices | Yes |

### Connections

|  |  |
|--|--|
| connectable conductor cross-section solid                                      |  |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul> | 0.75 mm <sup>2</sup><br>25 mm <sup>2</sup> |
| connectable conductor cross-section stranded                                   |  |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul> | 0.75 mm <sup>2</sup><br>25 mm <sup>2</sup> |
| connectable conductor cross-section finely stranded with core end processing   |  |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul> | 0.75 mm <sup>2</sup><br>25 mm <sup>2</sup> |
| tightening torque with screw-type terminals                                    |  |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul> | 2.5 N·m<br>3 N·m                           |

### Mechanical Design

|                               |       |
|-------------------------------|-------|
| height                        | 90 mm |
| width                         | 72 mm |
| depth                         | 76 mm |
| installation depth            | 70 mm |
| number of modular width units | 4     |
| mounting position             | any   |
| Net Weight                    | 520 g |

### Environmental conditions

|  |                 |
|--|-----------------|
| ambient temperature during operation   |                 |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul> | -25 °C<br>45 °C |
| ambient temperature during storage   |                 |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul> | -40 °C<br>75 °C |

### Approvals Certificates

|             |                          |
|-------------|--------------------------|
| Environment | General Product Approval |
|-------------|--------------------------|

[Environmental Con-  
firmations](#)

[Environmental Con-  
firmations](#)



[Miscellaneous](#)



|                          |       |
|--------------------------|-------|
| General Product Approval | other |
|--------------------------|-------|

[Confirmation](#)



[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?mfb=5SL6413-Z>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL6413-7>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SL6413-7](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL6413-7)

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>)





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