



Miniature circuit breaker 230/400 V 10kA, 1-pole, B, 20 A

| Model   |                                      |
|---|--------------------------------------|
| product brand name  | SENTRON                              |
| product designation   | Miniature circuit breaker            |
| General technical data  |                                      |
| number of poles   | 1                                    |
| design of pole  | 1P                                   |
| tripping characteristic class   | B                                    |
| mechanical service life (operating cycles)  |                                      |
| • typical   | 10 000                               |
| overvoltage category  | III                                  |
| degree of pollution   | 2                                    |
| Voltage   |                                      |
| type of voltage of the operating voltage  | AC                                   |
| <b>insulation voltage (Ui)</b>  |                                      |
| • with single-phase operation at AC rated value                                     | 250 V                                |
| • with multi-phase operation at AC rated value                                      | 440 V                                |
| operational current   |                                      |
| • at 30 °C rated value  | 20 A                                 |
| • at 40 °C rated value  | 18.48 A                              |
| • at 55 °C rated value  | 15.92 A                              |
| • at AC rated value   | 20 A                                 |
| Supply voltage  |                                      |
| supply voltage at AC  | 400 V                                |
| value range of the supply voltage frequency   | 50/60 Hz                             |
| operating voltage   |                                      |
| • with multi-phase operation at AC maximum  | 440 V                                |
| • at DC rated value maximum   | 72 V                                 |
| Protection class  |                                      |
| protection class IP   | IP20, with connected conductors      |
| Breaking Capacity   |                                      |
| switching capacity current  |                                      |
| • according to EN 60898 rated value   | 10 kA                                |
| • according to IEC 60947-2 rated value  | 10 kA                                |
| energy limitation class   | 3                                    |
| Dissipation   |                                      |
| power loss [W] for rated value of the current at AC in hot operating state per pole | 2.5 W                                |
| suitability for operation   | Residential buildings/infrastructure |
| Product details   |                                      |
| product feature   |                                      |

|   |     |
|---|-----|
| • halogen-free                                      | Yes |
| • sealable  | Yes |
| • silicon-free                                      | Yes |
| product extension installable supplementary devices | Yes |

#### Connections

|  |                      |
|--|----------------------|
| connectable conductor cross-section solid                                    |                      |
| • minimum  | 0.75 mm <sup>2</sup> |
| • maximum  | 25 mm <sup>2</sup>   |
| connectable conductor cross-section stranded                                 |                      |
| • minimum  | 0.75 mm <sup>2</sup> |
| • maximum  | 25 mm <sup>2</sup>   |
| connectable conductor cross-section finely stranded with core end processing |                      |
| • minimum  | 0.75 mm <sup>2</sup> |
| • maximum  | 25 mm <sup>2</sup>   |
| tightening torque with screw-type terminals                                  |                      |
| • minimum  | 2.5 N·m              |
| • maximum  | 3 N·m                |

#### Mechanical Design

|                               |       |
|-------------------------------|-------|
| height                        | 90 mm |
| width                         | 18 mm |
| depth                         | 76 mm |
| installation depth            | 70 mm |
| number of modular width units | 1     |
| mounting position             | any   |
| net weight                    | 150 g |

#### Environmental conditions

|                                      |        |
|--------------------------------------|--------|
| ambient temperature during operation |        |
| • minimum                            | -25 °C |
| • maximum                            | 55 °C  |
| ambient temperature during storage   |        |
| • minimum                            | -40 °C |
| • maximum                            | 75 °C  |

#### Environmental footprint

|  |           |
|--|-----------|
| Environmental Product Declaration (EPD)                | Yes       |
| Global Warming Potential [CO2 eq] total                | 26.9 kg   |
| Global Warming Potential [CO2 eq] during manufacturing | 0.73 kg   |
| Global Warming Potential [CO2 eq] during operation     | 26.3 kg   |
| Global Warming Potential [CO2 eq] after end of life    | -0.066 kg |

#### Approvals Certificates

##### General Product Approval



[Confirmation](#)



| General Product Approval | Test Certificates | other | Environment |
|--------------------------|-------------------|-------|-------------|
|--------------------------|-------------------|-------|-------------|



[Miscellaneous](#)

[Miscellaneous](#)

[Confirmation](#)

[Miscellaneous](#)



#### Environment

[Environmental Con-  
firmations](#)

[Environmental Con-  
firmations](#)

## Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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=5SL4120-6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL4120-6>

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

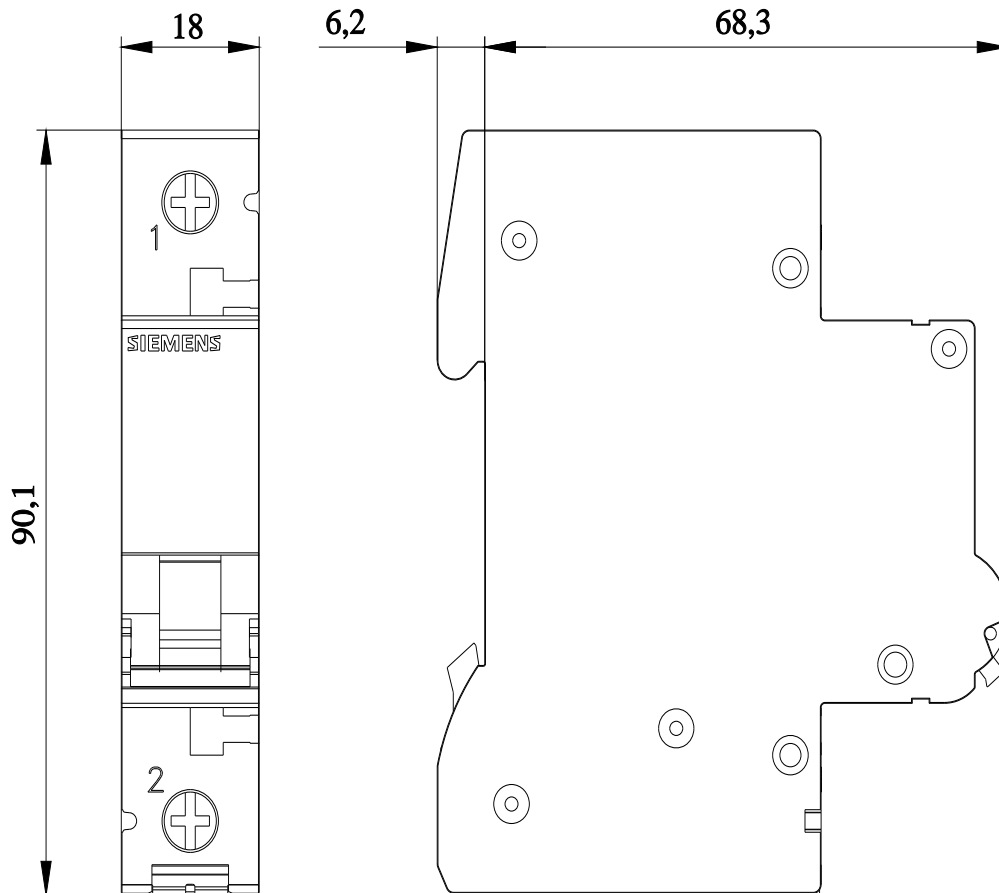
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SL4120-6](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL4120-6)

CAX-Online-Generator

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

Tender specifications

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





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