



Miniature circuit breaker 230/400 V 6kA, 1-pole, B, 20 A

| Model                                                                               |                                                                                                            |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| product brand name                                                                  | SETRON                                                                                                     |
| 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                                                                | 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)                                                             |                                                                                                            |
| • 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                                                              | 18.79 A                                                                                                    |
| — at 55 °C rated value                                                              | 16.8 A                                                                                                     |
| • operational current 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                                                         | 62.5 V                                                                                                     |
| •                                                                                   | 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                                                          |                                                                                                            |
| • according to EN 60898 rated value                                                 | 6 kA                                                                                                       |
| • according to IEC 60947-2 rated value                                              | 6 kA                                                                                                       |
| energy limitation class                                                             | 3                                                                                                          |
| Dissipation                                                                         |                                                                                                            |
| power loss [W] for rated value of the current at AC in hot operating state per pole | 2.2 W                                                                                                      |

|                                                                              |                                      |
|------------------------------------------------------------------------------|--------------------------------------|
| suitability for operation                                                    | Residential buildings/infrastructure |
| <b>Product details</b>                                                       |                                      |
| 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                                  |
| <b>Connections</b>                                                           |                                      |
| 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                                |
| <b>Mechanical Design</b>                                                     |                                      |
| height                                                                       | 90 mm                                |
| width                                                                        | 18 mm                                |
| depth                                                                        | 76 mm                                |
| installation depth                                                           | 70 mm                                |
| number of modular width units                                                | 1                                    |
| mounting position                                                            | any                                  |
| Net Weight                                                                   | 130 g                                |
| <b>Environmental conditions</b>                                              |                                      |
| ambient temperature during operation                                         |                                      |
| • minimum                                                                    | -25 °C                               |
| • maximum                                                                    | 45 °C                                |
| ambient temperature during storage                                           |                                      |
| • minimum                                                                    | -40 °C                               |
| • maximum                                                                    | 75 °C                                |
| <b>Environmental footprint</b>                                               |                                      |
| Environmental Product Declaration (EPD)                                      | Yes                                  |
| global warming potential [CO2 eq] total                                      | 28.2 kg                              |
| global warming potential [CO2 eq] during manufacturing                       | 0.718 kg                             |
| global warming potential [CO2 eq] during operation                           | 27.5 kg                              |
| global warming potential [CO2 eq] after end of life                          | -0.057 kg                            |
| <b>Approvals Certificates</b>                                                |                                      |
| <b>General Product Approval</b>                                              |                                      |



[Miscellaneous](#)



|       |             |
|-------|-------------|
| other | Environment |
|-------|-------------|



[Confirmation](#)



[Environmental Confirmations](#)

[Environmental Confirmations](#)

#### 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,...)

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SL6120-6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL6120-6>

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

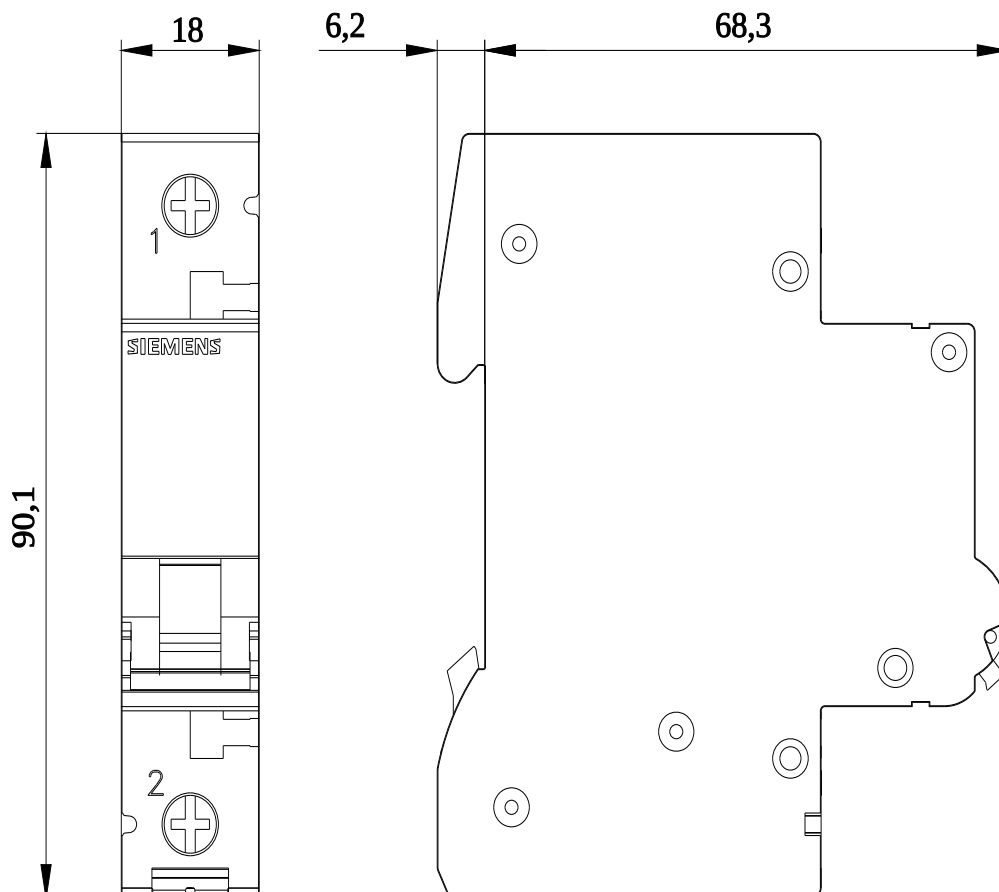
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SL6120-6](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL6120-6)

CAX-Online-Generator

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

Tender specifications

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





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