



Miniature circuit breaker 230/400 V 10kA, 1-pole, D, 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 | D |
| 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 (U _i) | |
| <ul style="list-style-type: none"> with single-phase operation at AC rated value with multi-phase operation at AC rated value | 250 V 440 V |
| <ul style="list-style-type: none"> operational current <ul style="list-style-type: none"> at 30 °C rated value at 40 °C rated value at 55 °C rated value operational current at AC rated value | 20 A 18.48 A 15.92 A 20 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"> with multi-phase operation at AC maximum at DC rated value maximum | 440 V 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 | |
| <ul style="list-style-type: none"> according to EN 60898 rated value according to IEC 60947-2 rated value | 10 kA 10 kA |
| Dissipation | |
| power loss [W] for rated value of the current at AC in hot operating state per pole | 1.6 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"> • minimum • maximum | 0.75 mm ² 25 mm ² |
| connectable conductor cross-section stranded | |
| <ul style="list-style-type: none"> • minimum • maximum | 0.75 mm ² 25 mm ² |
| connectable conductor cross-section finely stranded with core end processing | |
| <ul style="list-style-type: none"> • minimum • maximum | 0.75 mm ² 25 mm ² |
| tightening torque with screw-type terminals | |
| <ul style="list-style-type: none"> • minimum • maximum | 2.5 N·m 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 | 158.5 g |

Environmental conditions

| | |
|--|-----------------|
| ambient temperature during operation | |
| <ul style="list-style-type: none"> • minimum • maximum | -25 °C 55 °C |
| ambient temperature during storage | |
| <ul style="list-style-type: none"> • minimum • maximum | -40 °C 75 °C |

Approvals Certificates

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

[Environmental Con-
firmations](#)

[Environmental Con-
firmations](#)



| | |
|--------------------------|-------------------|
| General Product Approval | Test Certificates |
|--------------------------|-------------------|



[Confirmation](#)



[Miscellaneous](#)

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=5SL4120-8>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL4120-8>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL4120-8

CAX-Online-Generator

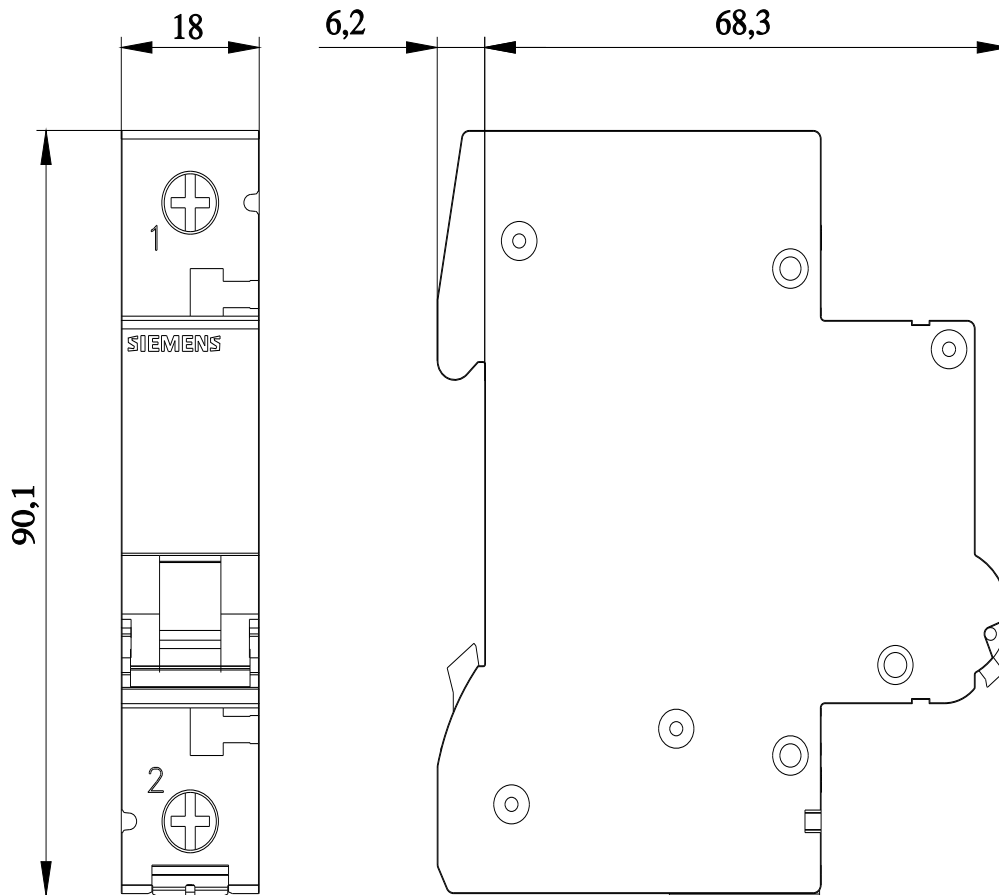
<https://www.siemens.com/cax>

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=)





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