



Miniature circuit breaker 400 V 6kA, 3-pole, C, 6A

| Model                                                                               |                                                                                                            |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| product brand name                                                                  | SENTRON                                                                                                    |
| product designation                                                                 | Miniature circuit breaker                                                                                  |
| General technical data                                                              |                                                                                                            |
| number of poles                                                                     | 3                                                                                                          |
| design of pole                                                                      | 3P                                                                                                         |
| 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)                                                             |                                                                                                            |
| • with multi-phase operation at AC rated value                                      | 440 V                                                                                                      |
| • operational current                                                               |                                                                                                            |
| — at 30 °C rated value                                                              | 6 A                                                                                                        |
| — at 40 °C rated value                                                              | 5.64 A                                                                                                     |
| — at 55 °C rated value                                                              | 5.04 A                                                                                                     |
| • operational current at AC rated value                                             | 6 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 | 0.7 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                                    |                      |
| • 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                         | 54 mm |
| depth                         | 76 mm |
| installation depth            | 70 mm |
| number of modular width units | 3     |
| mounting position             | any   |
| Net Weight                    | 389 g |

| Environmental conditions             |        |
|--------------------------------------|--------|
| ambient temperature during operation |        |
| • minimum                            | -25 °C |
| • maximum                            | 45 °C  |
| ambient temperature during storage   |        |
| • minimum                            | -40 °C |
| • maximum                            | 75 °C  |

#### Approvals Certificates

##### General Product Approval



[Miscellaneous](#)



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



[Confirmation](#)

[Environmental Con-  
firmations](#)

[Environmental Con-  
firmations](#)

#### 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>

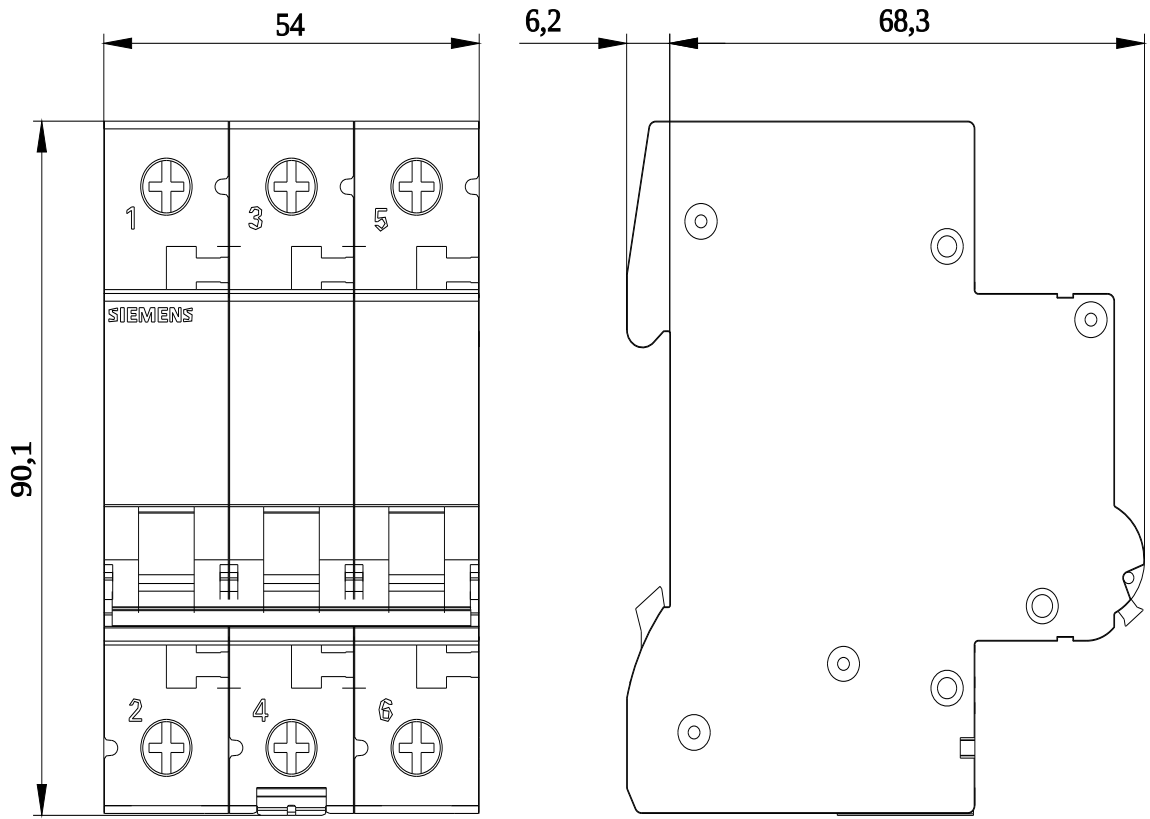
##### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SL6306-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL6306-7>

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





last modified:

10/10/2025 [🔗](#)

