



CIRCUIT BREAKER 230V 6KA, 1+N-POLE/1MW B13

| Model                                                                               |                                      |
|-------------------------------------------------------------------------------------|--------------------------------------|
| product brand name                                                                  | SETRON                               |
| product designation                                                                 | Miniature circuit breaker            |
| design of the product                                                               | Miniature circuit breaker compact    |
| General technical data                                                              |                                      |
| design of pole                                                                      | 1P+N                                 |
| 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                                   |
| insulation voltage (Ui) at AC rated value                                           | 250 V                                |
| operational current                                                                 |                                      |
| • at 30 °C rated value                                                              | 13 A                                 |
| • at 40 °C rated value                                                              | 12.37 A                              |
| • at 50 °C rated value                                                              | 11.72 A                              |
| • at 55 °C rated value                                                              | 11.37 A                              |
| • at 60 °C rated value                                                              | 11.02 A                              |
| • at AC rated value                                                                 | 13 A                                 |
| Supply voltage                                                                      |                                      |
| supply voltage                                                                      |                                      |
| • at AC                                                                             | 230 V                                |
| • at DC rated value                                                                 | 60 V                                 |
| value range of the supply voltage frequency                                         | 50/60 Hz                             |
| operating voltage                                                                   |                                      |
| • minimum                                                                           | 24 V                                 |
| • with single-phase operation at AC maximum                                         | 250 V                                |
| Protection class                                                                    |                                      |
| protection class IP                                                                 | IP20, with connected conductors      |
| Breaking Capacity                                                                   |                                      |
| switching capacity current                                                          |                                      |
| • according to EN 60898 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                                                                         |                                      |
| suitability for operation                                                           | Residential buildings/infrastructure |
| Product details                                                                     |                                      |

|                                                              |     |
|--------------------------------------------------------------|-----|
| product component                                            |     |
| • combined terminal top                                      | No  |
| • combined terminal bottom                                   | No  |
| • neutral conductor switching                                | Yes |
| <b>product feature</b>                                       |     |
| • properties for main switches in accordance with EN 60204-1 | No  |
| • 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                                                                    | 16 mm <sup>2</sup>   |
| connectable conductor cross-section stranded                                 |                      |
| • minimum                                                                    | 0.75 mm <sup>2</sup> |
| • maximum                                                                    | 16 mm <sup>2</sup>   |
| connectable conductor cross-section finely stranded with core end processing |                      |
| • minimum                                                                    | 0.75 mm <sup>2</sup> |
| • maximum                                                                    | 10 mm <sup>2</sup>   |
| tightening torque [lbf·in] with screw-type terminals                         |                      |
| • minimum                                                                    | 10.6 lbf·in          |
| • maximum                                                                    | 22.1 lbf·in          |
| tightening torque with screw-type terminals                                  |                      |
| • minimum                                                                    | 1.2 N·m              |
| • maximum                                                                    | 2.5 N·m              |
| position of power supply cord                                                | Any                  |

#### Mechanical Design

|                               |          |
|-------------------------------|----------|
| height                        | 90 mm    |
| width                         | 18 mm    |
| depth                         | 76 mm    |
| installation depth            | 70 mm    |
| number of modular width units | 1        |
| fastening method              | DIN rail |
| mounting position             | any      |
| net weight                    | 113.2 g  |

#### Environmental conditions

|                                                                             |                            |
|-----------------------------------------------------------------------------|----------------------------|
| standard                                                                    | IEC/EN60898-1, GB/T10963.1 |
| vibration resistance according to IEC 60068-2-6                             | Yes                        |
| ambient temperature during operation                                        |                            |
| • minimum                                                                   | -25 °C                     |
| • maximum                                                                   | 60 °C                      |
| ambient temperature during storage                                          |                            |
| • minimum                                                                   | -40 °C                     |
| • maximum                                                                   | 75 °C                      |
| number of test cycles for environmental testing according to IEC 60068-2-30 | 6                          |

#### Approvals Certificates

|                                 |
|---------------------------------|
| <b>General Product Approval</b> |
|---------------------------------|



[Confirmation](#)



|                          |                   |       |             |
|--------------------------|-------------------|-------|-------------|
| General Product Approval | Marine / Shipping | other | Environment |
|--------------------------|-------------------|-------|-------------|



[Confirmation](#)

[Miscellaneous](#)



## Environment

Siemens  
EcoTech



[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=5SL6013-6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL6013-6>

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

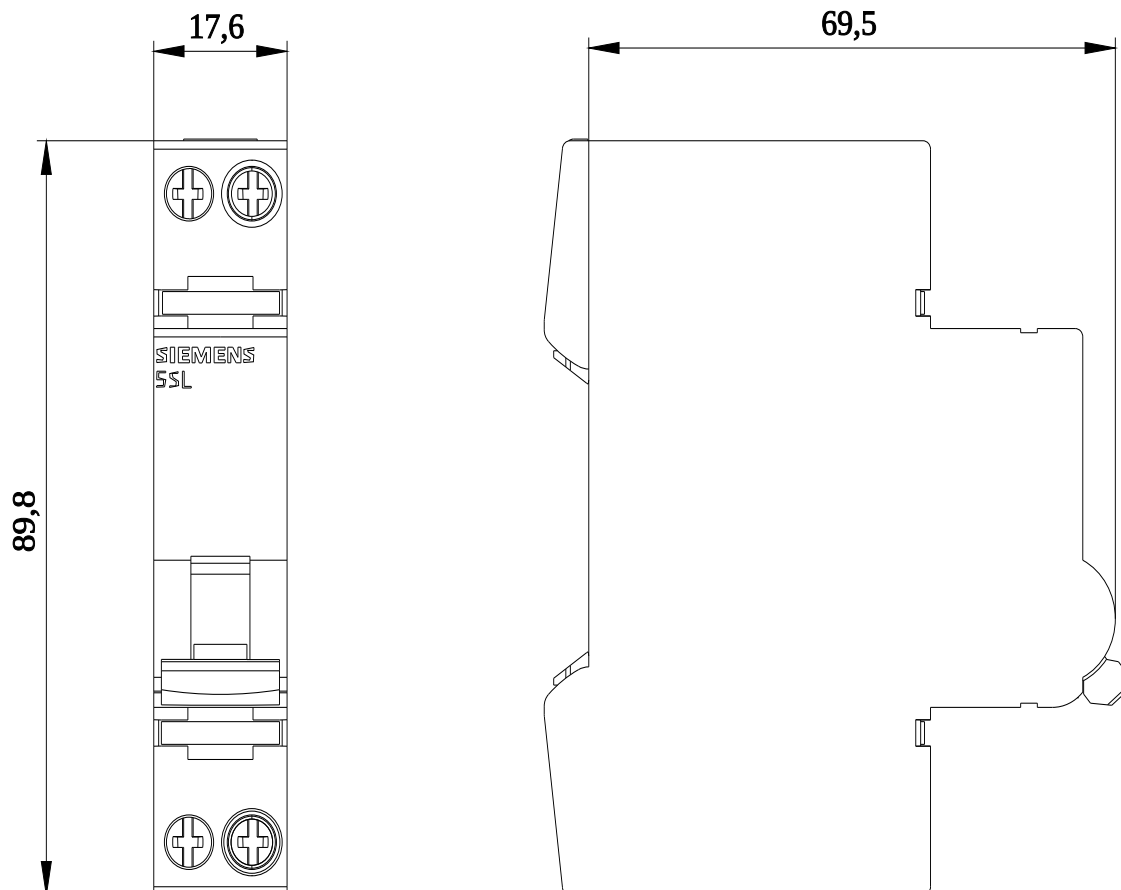
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SL6013-6](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL6013-6)

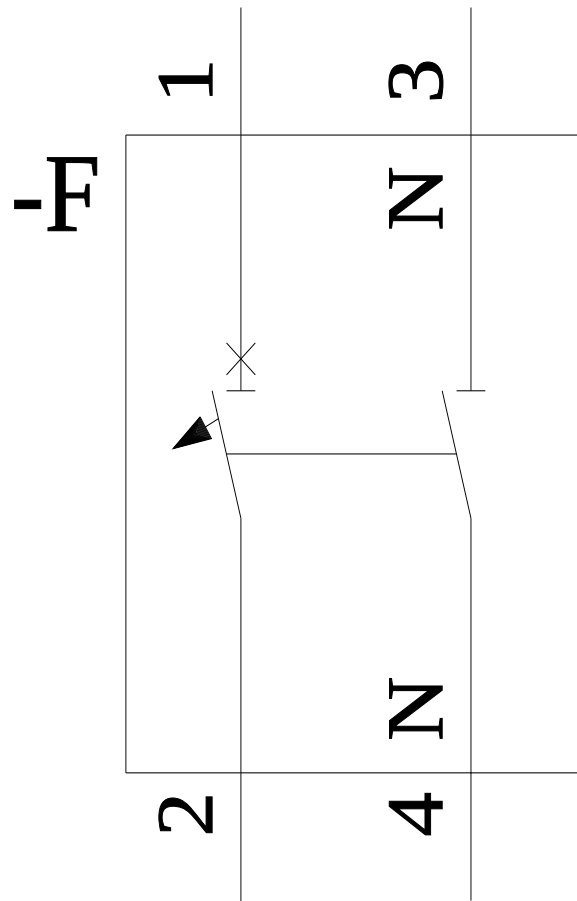
CAX-Online-Generator

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

Tender specifications

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





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