



Figure similar

miniature circuit breaker 230 V, 4.5 kA, 1+N-pole/1 MW, N left, C25

| 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                                                                                                                                                                                                                                                                                                                    | 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                                                    |
| insulation voltage (Ui) at AC rated value                                                                                                                                                                                                                                                                                                        | 250 V                                                 |
| <ul style="list-style-type: none"> <li>operational current                             <ul style="list-style-type: none"> <li>at 30 °C rated value</li> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 55 °C rated value</li> <li>at 60 °C rated value</li> </ul> </li> <li>operational current at AC rated value</li> </ul> | 25 A<br>24 A<br>22.96 A<br>22.42 A<br>21.86 A<br>25 A |
| Supply voltage                                                                                                                                                                                                                                                                                                                                   |                                                       |
| supply voltage <ul style="list-style-type: none"> <li>at AC</li> <li>at DC rated value</li> </ul>                                                                                                                                                                                                                                                | 230 V<br>60 V                                         |
| value range of the supply voltage frequency                                                                                                                                                                                                                                                                                                      | 50/60 Hz                                              |
| operating voltage <ul style="list-style-type: none"> <li>minimum</li> <li>with single-phase operation at AC maximum</li> </ul>                                                                                                                                                                                                                   | 24 V<br>250 V                                         |
| Protection class                                                                                                                                                                                                                                                                                                                                 |                                                       |
| protection class IP                                                                                                                                                                                                                                                                                                                              | IP20, with connected conductors                       |
| Breaking Capacity                                                                                                                                                                                                                                                                                                                                |                                                       |
| switching capacity current <ul style="list-style-type: none"> <li>according to EN 60898 rated value</li> </ul>                                                                                                                                                                                                                                   | 4.5 kA                                                |
| energy limitation class                                                                                                                                                                                                                                                                                                                          | 3                                                     |
| Dissipation                                                                                                                                                                                                                                                                                                                                      |                                                       |
| power loss [W] for rated value of the current <ul style="list-style-type: none"> <li>at AC in hot operating state per pole</li> </ul>                                                                                                                                                                                                            | 2.1 W                                                 |

|                                                                                     |                                               |
|-------------------------------------------------------------------------------------|-----------------------------------------------|
| <b>Suitability</b>                                                                  |                                               |
| <b>suitability for operation</b>                                                    | Residential buildings/infrastructure          |
| <b>Product details</b>                                                              |                                               |
| <b>product feature touch protection</b>                                             | Yes                                           |
| <b>product component</b>                                                            |                                               |
| • combined terminal top                                                             | No                                            |
| • combined terminal bottom                                                          | No                                            |
| • neutral conductor switching                                                       | Yes                                           |
| <b>product feature properties for main switches in accordance with EN 60204-1</b>   | No                                            |
| <b>product feature halogen-free</b>                                                 | Yes                                           |
| <b>product feature sealable</b>                                                     | Yes                                           |
| <b>product feature silicon-free</b>                                                 | Yes                                           |
| <b>product extension installable supplementary devices</b>                          | Yes                                           |
| <b>Product function</b>                                                             |                                               |
| <b>product function</b>                                                             |                                               |
| • communication function                                                            | No                                            |
| • other measurement function                                                        | No                                            |
| <b>Connections</b>                                                                  |                                               |
| <b>connectable conductor cross-section solid</b>                                    |                                               |
| • minimum                                                                           | 0.75 mm <sup>2</sup>                          |
| • maximum                                                                           | 16 mm <sup>2</sup>                            |
| <b>connectable conductor cross-section stranded</b>                                 |                                               |
| • minimum                                                                           | 0.75 mm <sup>2</sup>                          |
| • maximum                                                                           | 16 mm <sup>2</sup>                            |
| <b>connectable conductor cross-section finely stranded with core end processing</b> |                                               |
| • minimum                                                                           | 0.75 mm <sup>2</sup>                          |
| • maximum                                                                           | 10 mm <sup>2</sup>                            |
| <b>tightening torque [lbf-in] with screw-type terminals</b>                         |                                               |
| • minimum                                                                           | 10.6 lbf-in                                   |
| • maximum                                                                           | 22.1 lbf-in                                   |
| <b>tightening torque with screw-type terminals</b>                                  |                                               |
| • minimum                                                                           | 1.2 N·m                                       |
| • maximum                                                                           | 2.5 N·m                                       |
| <b>position of power supply cord</b>                                                | Any                                           |
| <b>Mechanical Design</b>                                                            |                                               |
| <b>height</b>                                                                       | 90 mm                                         |
| <b>width</b>                                                                        | 18 mm                                         |
| <b>depth</b>                                                                        | 76 mm                                         |
| <b>installation depth</b>                                                           | 70 mm                                         |
| <b>number of modular width units</b>                                                | 1                                             |
| <b>fastening method</b>                                                             | DIN rail                                      |
| <b>mounting position</b>                                                            | any                                           |
| <b>Net Weight</b>                                                                   | 125 g                                         |
| <b>Environmental conditions</b>                                                     |                                               |
| <b>standard</b>                                                                     | IEC/EN60898-1, GB/T10963.1                    |
| <b>vibration resistance according to IEC 60068-2-6</b>                              | Yes                                           |
| <b>ambient temperature during operation</b>                                         |                                               |
| • minimum                                                                           | -25 °C                                        |
| • maximum                                                                           | 60 °C                                         |
| <b>ambient temperature during operation</b>                                         | -25...45°C: max. 85%rF. 45...60°C: max. 43%rF |
| <b>ambient temperature during storage</b>                                           |                                               |
| • minimum                                                                           | -40 °C                                        |
| • maximum                                                                           | 75 °C                                         |
| <b>number of test cycles for environmental testing according to IEC 60068-2-30</b>  | 6                                             |
| <b>Approvals Certificates</b>                                                       |                                               |
| <b>Environment</b>                                                                  | General Product Approval                      |

[Environmental Con-  
firmations](#)

[Environmental Con-  
firmations](#)



[Miscellaneous](#)



[Confirmation](#)

General Product Approval

Test Certificates

Maritime application

other



[Miscellaneous](#)



[Confirmation](#)



other

[Miscellaneous](#)

#### 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=5SL3025-7KL>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL3025-7KL>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SL3025-7KL](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL3025-7KL)

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="HAUPT"></mmp_prod_no>)





