

Siemens  
EcoTech



miniature circuit breaker 230 V, 6 kA, 1+N-pole/1 MW, N left, C8



| Model  |   |
|--|---|
| product brand name   | SENTRON   |
| 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> | 8 A<br>7.52 A<br>7 A<br>6.73 A<br>6.45 A<br>8 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>   | 6 kA  |
| energy limitation class  | 3   |
| Dissipation  |   |

|  |  |
|--|--|
| <b>power loss [W] for rated value of the current</b><br>• at AC in hot operating state per pole                    | 1.3 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><br>• combined terminal top<br>• combined terminal bottom<br>• neutral conductor switching | No<br>No<br>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><br>• communication function<br>• other measurement function                                | No<br>No                                   |
| <b>Connections</b>   |  |
| <b>connectable conductor cross-section solid</b><br>• minimum<br>• maximum   | 0.75 mm <sup>2</sup><br>16 mm <sup>2</sup> |
| <b>connectable conductor cross-section stranded</b><br>• minimum<br>• maximum                                      | 0.75 mm <sup>2</sup><br>16 mm <sup>2</sup> |
| <b>connectable conductor cross-section finely stranded with core end processing</b><br>• minimum<br>• maximum      | 0.75 mm <sup>2</sup><br>10 mm <sup>2</sup> |
| <b>tightening torque [lbf-in] with screw-type terminals</b><br>• minimum<br>• maximum                              | 10.6 lbf-in<br>22.1 lbf-in                 |
| <b>tightening torque with screw-type terminals</b><br>• minimum<br>• maximum                                       | 1.2 N·m<br>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>  | 121 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><br>• minimum<br>• maximum  | -25 °C<br>60 °C                            |
| <b>ambient temperature during storage</b><br>• minimum<br>• maximum  | -40 °C<br>75 °C                            |
| <b>number of test cycles for environmental testing according to IEC 60068-2-30</b>                                 | 6  |
| <b>Approvals Certificates</b>  |  |

Environment General Product Approval

[Environmental Confirmations](#)

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[Miscellaneous](#)

General Product Approval Test Certificates



[Confirmation](#)



[Miscellaneous](#)

Maritime application other



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[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=5SL6008-7KL>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL6008-7KL>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SL6008-7KL](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL6008-7KL)

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=)





