

Siemens  
EcoTech



miniature circuit breaker 230 V, 6 kA, 1+N-pole/1 MW, C25



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>	25 A 24 A 22.96 A 22.42 A 21.86 A 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 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 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>	
<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>	
<ul style="list-style-type: none"> <li>combined terminal top</li> </ul>	No
<ul style="list-style-type: none"> <li>combined terminal bottom</li> </ul>	No
<ul style="list-style-type: none"> <li>neutral conductor switching</li> </ul>	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>	
<ul style="list-style-type: none"> <li>communication function</li> </ul>	No
<ul style="list-style-type: none"> <li>other measurement function</li> </ul>	No
<b>Connections</b>	
<b>connectable conductor cross-section solid</b>	
<ul style="list-style-type: none"> <li>minimum</li> </ul>	0.75 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>maximum</li> </ul>	16 mm <sup>2</sup>
<b>connectable conductor cross-section stranded</b>	
<ul style="list-style-type: none"> <li>minimum</li> </ul>	0.75 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>maximum</li> </ul>	16 mm <sup>2</sup>
<b>connectable conductor cross-section finely stranded with core end processing</b>	
<ul style="list-style-type: none"> <li>minimum</li> </ul>	0.75 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>maximum</li> </ul>	10 mm <sup>2</sup>
<b>tightening torque [lbf-in] with screw-type terminals</b>	
<ul style="list-style-type: none"> <li>minimum</li> </ul>	10.6 lbf-in
<ul style="list-style-type: none"> <li>maximum</li> </ul>	22.1 lbf-in
<b>tightening torque with screw-type terminals</b>	
<ul style="list-style-type: none"> <li>minimum</li> </ul>	1.2 N·m
<ul style="list-style-type: none"> <li>maximum</li> </ul>	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>	118 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>	
<ul style="list-style-type: none"> <li>minimum</li> </ul>	-25 °C
<ul style="list-style-type: none"> <li>maximum</li> </ul>	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>	
<ul style="list-style-type: none"> <li>minimum</li> </ul>	-40 °C
<ul style="list-style-type: none"> <li>maximum</li> </ul>	75 °C
<b>number of test cycles for environmental testing according to IEC 60068-2-30</b>	6

## Approvals Certificates

Environment	General Product Approval
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[Environmental Confirmations](#)

[Environmental Confirmations](#)



Siemens EcoTech



CCC

## General Product Approval



IMQ



VDE



KEMA

[Confirmation](#)



EG-Konf.

General Product Approval

Maritime application

other



DNV

[Confirmation](#)



[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=5SL6025-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SL6025-7>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SL6025-7](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL6025-7)

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=)





