



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	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	25 A
• at 40 °C rated value	24 A
• at 50 °C rated value	22.96 A
• at 55 °C rated value	22.42 A
• at 60 °C rated value	21.86 A
• at AC rated value	25 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	2.1 W
Suitability	
suitability for operation	Residential buildings/infrastructure
Product details	

product feature touch protection	Yes
product component	
• combined terminal top	No
• combined terminal bottom	No
• neutral conductor switching	Yes
product feature	
• 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 ²
• maximum	16 mm ²
connectable conductor cross-section stranded	
• minimum	0.75 mm ²
• maximum	16 mm ²
connectable conductor cross-section finely stranded with core end processing	
• minimum	0.75 mm ²
• maximum	10 mm ²
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	118 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 operation	-25...45°C: max. 85%rF. 45...60°C: max. 43%rF
ambient temperature during storage	
• minimum	-40 °C
• maximum	75 °C
number of test cycles for environmental testing according to IEC 60068-2-30	6
Environmental footprint	
Environmental Product Declaration (EPD)	Yes
global warming potential [CO ₂ eq] total	11.7 kg
global warming potential [CO ₂ eq] during manufacturing	0.916 kg
global warming potential [CO ₂ eq] during operation	10.8 kg
global warming potential [CO ₂ eq] after end of life	-0.102 kg
Approvals Certificates	
General Product Approval	



General Product Approval

other

Environment



[Confirmation](#)

[Miscellaneous](#)



Siemens
EcoTech



Environment

[Environmental Confirmations](#)

[Environmental Confirmations](#)

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=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, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL6025-7

CAX-Online-Generator

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

Tender specifications

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



