SIEMENS

Data sheet 5SL6025-7

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
• **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
• **operational current 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	

Subject to change without notice
© Copyright Siemens

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
product feature halogen-free	Yes
product feature sealable	Yes
product feature silicon-free	Yes
product extension installable supplementary devices	Yes
Product function	
product function	
● communication function	No
● other measurement function	No
Connections	
connectable conductor cross-section solid	
● minimum	0.75 mm²
● maximum	16 mm²
connectable conductor cross-section stranded	
● minimum	0.75 mm²
● maximum	16 mm²
connectable conductor cross-section finely stranded with core end processing	
● minimum	0.75 mm²
● maximum	10 mm²
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 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
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

© Copyright Siemens

Approvals Certificates

Environment					General Product Approval
Environmental Confirmations	Environmental Confirmations				

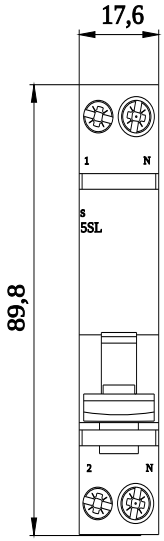
General Product Approval					
				Confirmation	

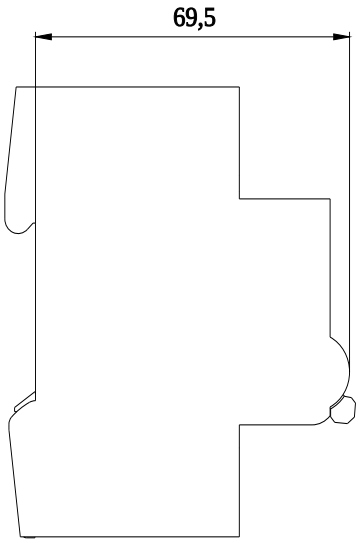
General Product Approval	Maritime application	other		
		Confirmation		Miscellaneous

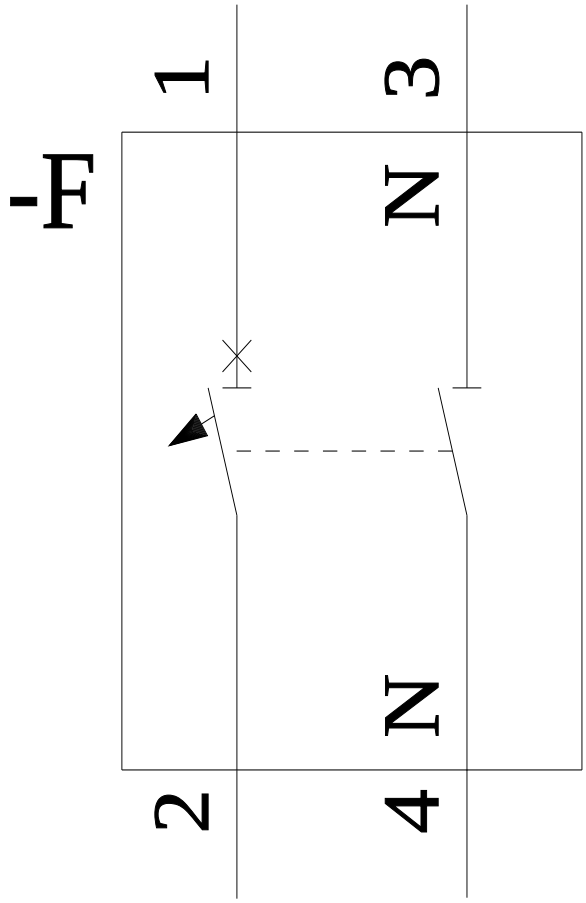
Further information

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
CAx-Online-Generator
https://www.siemens.com/cax
Tender specifications
https://www.siemens.com/specifications
Kennlinien
https://curves.simaris.siemens.com/curves/5SL6025-7

Subject to change without notice
© Copyright Siemens







Subject to change without notice
© Copyright Siemens

Subject to change without notice
© Copyright Siemens

Subject to change without notice
© Copyright Siemens