SIEMENS

Data sheet 5SL6040-7KL



miniature circuit breaker 230 V, 6 kA, 1+N-pole/1 MW, N left, C40

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	4 000
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	40 A
— at 40 °C rated value	38.08 A
— at 50 °C rated value	36.05 A
— at 55 °C rated value	34.99 A
— at 60 °C rated value	33.9 A
● operational current at AC rated value	40 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	3.8 W
Suitability	

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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	2.5 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	149 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 [CO2 eq] total	11.7 kg

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global warming potential [CO2 eq] during manufacturing	0.916 kg
global warming potential [CO2 eq] during operation	10.8 kg
global warming potential [CO2 eq] after end of life	-0.102 kg

Approvals Certificates

General Product Approval

Miscellaneous

Test Certificates	Maritime application	other		Environment
Miscellaneous		Miscellaneous	Confirmation	

Environment

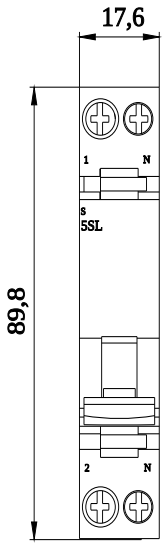
Environmental Confirmations

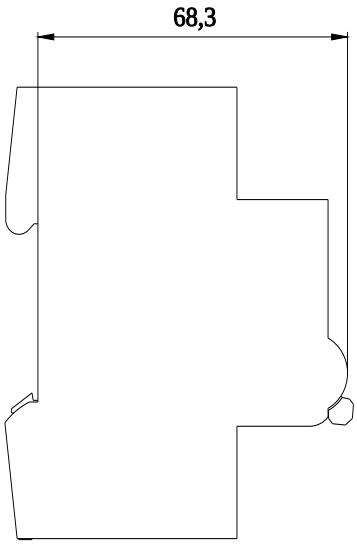
Environmental Confirmations

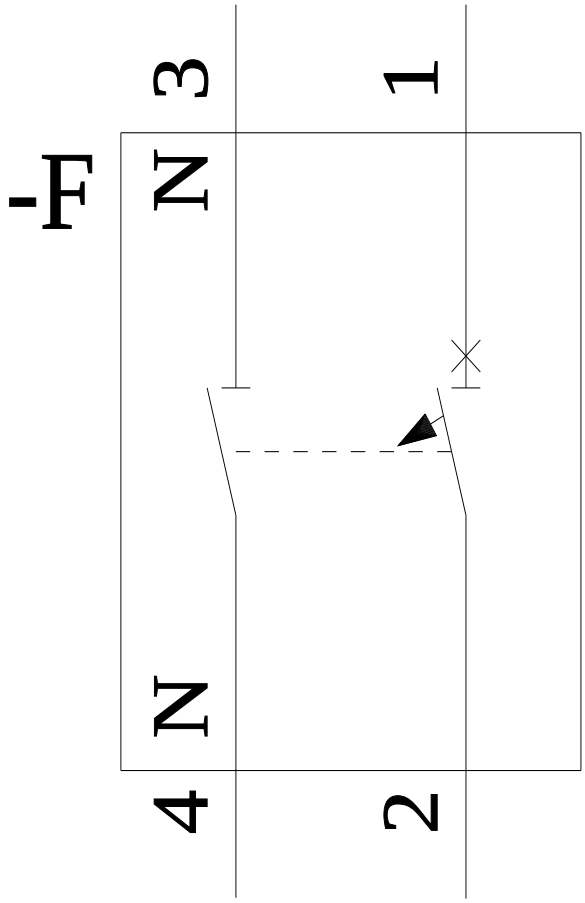
Further information

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=5SL6040-7KL
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/5SL6040-7KL
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL6040-7KL
CAx-Online-Generator
https://www.siemens.com/cax
Tender specifications
https://www.siemens.com/specifications

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