SIEMENS

Data sheet 5SL4140-7



Miniature circuit breaker 230/400 V 10kA, 1-pole, C, 40 A

product brand name SENTRON product designation Miniature circuit breaker Ceneral technical data number of poles 1 design of pole 1 design of pole 1 tripping characteristic class C 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) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value 440 V Supply voltage at AC rated value 440 V Frotection class IP 1P20, with connected conductors Switching capacity switching capacity current 4 • according to EC 60947-2 rated value 10 kA • according to EC 60947-2 rated value 10 kA • according to EC 60947-2 rated value 10 kA • according to EC 60947-2 rated value 70 kA 8 • according to EC 60947-2 rated value 10 kA • according to EC 60947-2 rated value 70 kA 8 • according to EC 60947-2 rated value 70 kA 7 • a			
product designation Miniature circuit breaker General technical data number of poles 1 design of pole 1 tripping characteristic class C mechanical service life (operating cycles) typical 10 000 overvoltage category III degree of pollution 2 type of voltage of the operating voltage AC insulation voltage (II) AC with multi-phase operation at AC rated value 250 V with multi-phase operation at AC rated value 440 V Supply voltage at AC rated value 440 V value range of the supply voltage frequency 50/60 Hz operating voltage AC with multi-phase operation at AC maximum 440 V value range of the supply voltage frequency 72 V Protection class IP IP20, with connected conductors Switching capacity switching capacity switching capacity current 2 according to EIC 60947-2 rated value 10 kA eaccording to EIC 60947-2 rated value 10 kA energy limitation class 3 Dissipation Product details product teature 4 halogen-free 4 Yes sealable 4 Yes sealable 4 Yes sealable 7 Yes sellicon-free 7 Yes connections Product details product testion installable supplementary devices Connections Miniature circuit breaker ### IP20 ### IP2	Model		
Ceneral technical data number of poles design of pole Iriping characteristic class C mechanical service life (operating cycles) typical 10 000 overvoltage category lift (operating cycles) typical degree of pollution 2 Voltage type of voltage of the operating voltage love of voltage of the operating voltage type of voltage of the operating voltage AC insulation voltage (UI) with single-phase operation at AC rated value with multi-phase operation at AC rated value supply voltage supply voltage supply voltage at AC rated value value range of the supply voltage frequency operating voltage with multi-phase operation at AC maximum at DC rated value maximum 72 V Protection class protection class IP IP20, with connected conductors Switching capacity switching capacity current a according to EN 60898 rated value a cocording to EN 60898 rated value 10 kA energy limitation class 3 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole sultability for operation Product details product feature halogen-free Pada AC rated value of the current of the sealable Sealable Sealable Yes sealable Yes sealable Yes sonnections	-		
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design of pole tripping characteristic class C C C C C C C C C C C C C C C C C C	General technical data		
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mechanical service life (operating cycles) typical overvoltage category degree of pollution Voltage type of voltage of the operating voltage insulation voltage (Ui) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value * with multi-phase operation at AC rated value * supply voltage supply voltage supply voltage * with multi-phase operation at AC maximum • at CC rated value maximum * value range of the supply voltage frequency operating voltage • with multi-phase operation at AC maximum • at CC rated value maximum * value range of the supply voltage frequency operating voltage • with multi-phase operation at AC maximum • at CC rated value maximum * value range of the supply voltage frequency operating voltage • with multi-phase operation at AC maximum • at CC rated value maximum * value range of the supply voltage frequency • at CC rated value maximum * value range of the supply voltage frequency • switching capacity current • according to EN 60898 rated value • according to EN 60898 rated value • according to EN 60898 rated value • according to EC 60947-2 rated value • 10 kA • according to EC 60947-2 rated value • 10 kA • according to EC 60947-2 rated value • 10 kA • according to EC 60947-2 rated value • 23 Wy operation * power loss [W] for rated value of the current at AC in hot operating state per pole suitability for operation * Residential buildings/infrastructure * Product details * product extension installable supplementary devices * Yes * connections	design of pole	1P	
overvoltage category degree of pollution 2 Voltage type of voltage of the operating voltage insulation voltage (Ui) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value supply voltage supply voltage supply voltage at AC rated value value range of the supply voltage frequency operating voltage • with multi-phase operation at AC maximum • at DC rated value maximum 72 V Protection class protection class IP Switching capacity switching capacity current • according to EN 60898 rated value • according to Er 60947-2 rated value • 10 kA • according to Er 60947	tripping characteristic class	C	
degree of pollution 2 Voltage type of voltage of the operating voltage insulation voltage (Ui) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value * supply voltage supply voltage at AC rated value value range of the supply voltage frequency operating voltage • with multi-phase operation at AC maximum • at DC rated value maximum 72 V Protection class protection class IP Switching capacity switching capacity current • according to EN 60898 rated value • according to EN 60898 rated value • according to EN 60894 rated value • according to EN 60947-2 rated value • according to EN 60947-2 rated value • according to EN 60947 rated value of the current at AC in hot operating state per pole suitability for operation Product feature • halogen-free • sealable • sealable • sealable • silicon-free • sealable • silicon-free • sealout extension installable supplementary devices Yes Connections	mechanical service life (operating cycles) typical	10 000	
type of voltage of the operating voltage type of voltage (Ui) • with insigle-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value **Supply voltage **supply voltage **supply voltage at AC rated value **supply voltage at AC rated value **value range of the supply voltage frequency **operating voltage • with multi-phase operation at AC maximum • at DC rated value maximum **72 V **Protection class protection class IP **Protection class IP **Protection class IP **Protection class IP **Switching capacity **switching capacity current • according to EN 60898 rated value • according to EN 60898 rated value • according to EC 60947-2 rated value **operating to EC 60947-2 rated value **operating state per pole **suitability for operation **Product details **product details **product details **product detaile **product detaile **product detaile **product extension installable supplementary devices **Yes **sealable • silicon-free **yes **sealable suitability for operation installable supplementary devices **Yes **product extension installable supplementary devices	overvoltage category	III	
type of voltage of the operating voltage insulation voltage (UI) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value supply voltage supply voltage supply voltage frequency value range of the supply voltage frequency operating voltage • with multi-phase operation at AC maximum • at DC rated value maximum 72 V Protection class protection class IP Switching capacity current • according to EN 60898 rated value • according to EC 60947-2 rated value • according to IEC 60947-2 rated value power loss [W] for rated value of the current at AC in hot operating state per pole suitability for operation Product details product feature • halogen-free • sealable • selicon-free • sealable • silicon-free • Yes • sealable • silicon-free • Yes product extension installable supplementary devices Connections	degree of pollution	2	
insulation voltage (Ui) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phase operation at AC rated value **Supply voltage supply voltage at AC rated value **value range of the supply voltage frequency operating voltage • with multi-phase operation at AC maximum • at DC rated value maximum **72 V **Protection class protection class IP **Switching capacity **switching capacity current • according to EN 60898 rated value • according to EC 60947-2 rated value **energy limitation class **Dissipation **power loss [M] for rated value of the current at AC in hot operating state per pole suitability for operation **Product details **product details **product details **product sets and supplementary devices **product extension installable supplementary devices **Pes **product extension installable supplementary devices **Pes **Connections **Pos **p	Voltage		
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Supply voltage at AC rated value 400 V value range of the supply voltage frequency 50/60 Hz operating voltage • with multi-phase operation at AC maximum 72 V Protection class protection class IP IP20, with connected conductors Switching capacity switching capacity switching capacity current • according to EN 60898 rated value 10 kA • according to IEC 60947-2 rated value 10 kA energy limitation class 3 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole suitability for operation Residential buildings/infrastructure Product details product feature • halogen-free Yes • sealable • silicon-free Yes product extension installable supplementary devices Yes Connections	 with single-phase operation at AC rated value 	250 V	
supply voltage at AC rated value 400 V value range of the supply voltage frequency 50/60 Hz operating voltage • with multi-phase operation at AC maximum 440 V • at DC rated value maximum 72 V Protection class protection class IP IP20, with connected conductors Switching capacity switching capacity current • according to EN 60898 rated value 10 kA • according to IEC 60947-2 rated value 10 kA energy limitation class 3 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole suitability for operation Residential buildings/infrastructure Product details product feature • halogen-free Yes • sealable Yes • silicon-free Yes Connections	 with multi-phase operation at AC rated value 	440 V	
value range of the supply voltage frequency operating voltage • with multi-phase operation at AC maximum • at DC rated value maximum Protection class protection class IP Switching capacity switching capacity switching capacity current • according to EN 60898 rated value • according to EN 60898 rated value 10 kA • according to EC 60947-2 rated value 10 kA eaccording to IEC 60947-2 rated value 10 kA succording to IEC 60947-2 rated value 10 kA eaccording to rated value of the current at AC in hot operating state per pole suitability for operation Product details product feature • halogen-free • halogen-free • sealable • sealable • yes • sealable • yes product extension installable supplementary devices Connections	Supply voltage		
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with multi-phase operation at AC maximum at DC rated value maximum 72 V Protection class protection class IP IP20, with connected conductors Switching capacity switching capacity current according to EN 60898 rated value according to IEC 60947-2 rated value	value range of the supply voltage frequency	50/60 Hz	
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protection class IP IP20, with connected conductors Switching capacity switching capacity current • according to EN 60898 rated value 10 kA • according to IEC 60947-2 rated value 10 kA energy limitation class 3 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole suitability for operation Residential buildings/infrastructure Product details product feature • halogen-free Yes • sealable Yes • silicon-free Yes product extension installable supplementary devices Yes Connections	 with multi-phase operation at AC maximum 	440 V	
protection class IP IP20, with connected conductors Switching capacity switching capacity current • according to EN 60898 rated value • according to IEC 60947-2 rated value energy limitation class 3 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole suitability for operation Product details product feature • halogen-free • halogen-free • sealable • silicon-free product extension installable supplementary devices Connections	 at DC rated value maximum 	72 V	
Switching capacity switching capacity current • according to EN 60898 rated value • according to IEC 60947-2 rated value 10 kA energy limitation class 3 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole suitability for operation Product details product feature • halogen-free • halogen-free • sealable • seillicon-free product extension installable supplementary devices Connections	Protection class		
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according to EN 60898 rated value according to IEC 60947-2 rated value 10 kA energy limitation class 3 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole suitability for operation Product details product feature halogen-free sealable silicon-free silicon-free product extension installable supplementary devices Connections	Switching capacity		
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energy limitation class Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole suitability for operation Product details product feature • halogen-free • sealable • silicon-free • yes product extension installable supplementary devices Connections	 according to EN 60898 rated value 	10 kA	
Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole suitability for operation Product details product feature • halogen-free • sealable • silicon-free product extension installable supplementary devices Connections	 according to IEC 60947-2 rated value 	10 kA	
power loss [W] for rated value of the current at AC in hot operating state per pole suitability for operation Residential buildings/infrastructure Product details product feature • halogen-free • sealable • silicon-free product extension installable supplementary devices Connections	energy limitation class	3	
operating state per pole suitability for operation Product details product feature • halogen-free • sealable • silicon-free product extension installable supplementary devices Connections Residential buildings/infrastructure Product details Yes Yes Yes Yes Yes Yes	Dissipation		
Product details product feature • halogen-free • sealable • silicon-free product extension installable supplementary devices Connections		3.3 W	
product feature • halogen-free • sealable • silicon-free product extension installable supplementary devices Connections Yes Yes Yes	suitability for operation	Residential buildings/infrastructure	
 halogen-free sealable silicon-free product extension installable supplementary devices Connections Yes Yes	Product details		
sealable silicon-free Yes product extension installable supplementary devices Connections Yes Yes Yes	product feature		
• silicon-free Yes product extension installable supplementary devices Yes Connections	halogen-free	Yes	
product extension installable supplementary devices Yes Connections	• sealable	Yes	
Connections	• silicon-free	Yes	
Connections	product extension installable supplementary devices	Yes	
connectable conductor cross-section solid			
	connectable conductor cross-section solid		

• minimum	0.75 mm²
• maximum	25 mm ²
connectable conductor cross-section stranded	
• minimum	0.75 mm²
maximum	25 mm²
connectable conductor cross-section finely stranded with core end processing	
• minimum	0.75 mm²
maximum	25 mm²
tightening torque with screw-type terminals	
• minimum	2.5 N·m
• maximum	3 N·m
Mechanical Design	
height	90 mm
width	18 mm
depth	76 mm
installation depth	70 mm
number of modular width units	1
mounting position	any
net weight	150 g
Environmental conditions	
ambient temperature during operation	
• minimum	-25 °C
maximum	55 °C
ambient temperature during storage	
• minimum	-40 °C
maximum	75 °C
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] total	26.9 kg
Global Warming Potential [CO2 eq] during manufacturing	0.73 kg
Global Warming Potential [CO2 eq] during operation	26.3 kg
global warming potential [CO2 eq] after end of life	-0.066 kg
Approvals Certificates	
General Product Approval	



Confirmation







Miscellaneous

Declaration of Conformity

Test Certificates

other

Environmental Con-

Environment





Miscellaneous

Miscellaneous

Confirmation

firmations

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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)

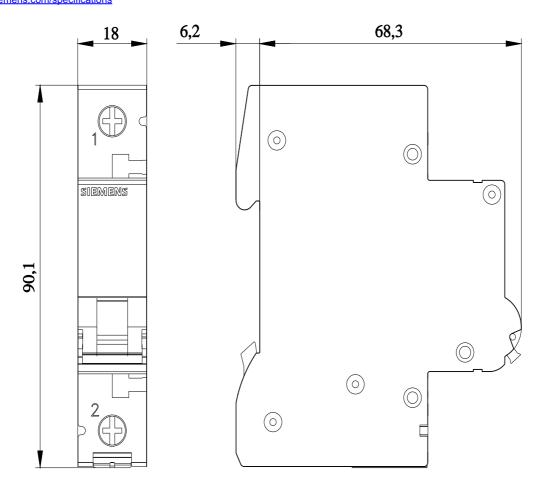
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SL4140-7

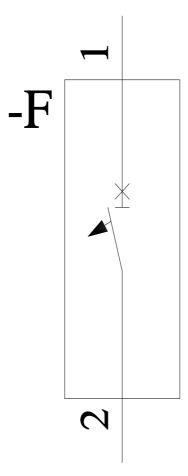
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/5SL4140-7

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL4140-7





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