## **SIEMENS**

Data sheet 5SL6640-6



Miniature circuit breaker 400 V 6kA, 3+N-pole, B, 40 A

product transl name SENTRON  product designation Miniature circuit breaker  General technical data  number of poles 4  design of pole 3P+N  tripping characteristic class B  mechanical service life (operating cycles) typical 10 000  overvoltage category III  degree of pollution 2  Votage  Type of vottage of the operating vottage AC  insulation vottage (II)  • with multi-phase operation at AC rated value 440 V  Supply vottage of the supply vottage frequency 50/60 Hz  operating vottage  • with multi-phase operation at AC maximum 440 V  • at DC rated value maximum 72 V  Protection class IP  Switching capacity  switching capacity  switching capacity  switching capacity current  • according to EC 60947-2 rated value 6 kA  • according to EC 60947-2 rated value 6 kA  energy limitation class  Dissipation  Product details  product feature  • halogen-free 9  • sealabie 4 Yes  • sealabie 7 Yes  • sealabie 7 Yes  • sealabie 9 Yes  • silicon-free 7 Yes  product extension installable supplementary devices 7 Yes  connectable conductor cross-section solid  • minimum 0,75 mm*	Madel	
product designation Miniature circuit breaker  General technical data number of poles 4 design of pole 3P+N tripping characteristic class B 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 multi-phase operation at AC rated value 440 V  Supply voltage before 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  Switching capacity current • according to EN 60898 rated value 6 kA • 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 suitability for operation Residential buildings/infrastructure  Product dealis  product feature • halogen-free 4 Yes • sealable 4 Yes • sealable 5 Yes • sealable 5 Yes • selicon-free 7 Yes product extension installable supplementary devices 7 Yes connectable conductor cross-section solid	Model	OFWEDOW
Concrat technical data  number of poles  design of pole  disping characteristic class  mechanical service life (operating cycles) typical  overvoltage category  difference of pollution  2  Voltage  Type of voltage of the operating voltage  Type of voltage of the operating voltage  With multi-phase operation at AC rated value  with multi-phase operation at AC rated value  440 V  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  switching capacity  switching capacity  switching capacity current  according to EN 60898 rated value  according to EN 60898 rated value  according to EN 608947-2 rated value  according to EN 608947-2 rated value  according to EN 608947-2 rated value  AC in hot operating state per pole  suitability for operation  Product details  product feature  halogen-free  sealable  yes  salable  Yes  salable  Yes  sealable  Yes  product extension installable supplementary devices  Connectable conductor cross-section solid		
number of poles 4 design of pole 3P+N tripping characteristic class B 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 (III) • with multi-phase operation at AC rated value 440 V  Supply voltage supply voltage at AC rated value 440 V  Supply voltage at AC rated value 440 V  Supply voltage at AC rated value 440 V  sulue 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 6 kA • 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 sultability for operation Product details product feature • halogen-free 9 • sealable 7 • sealable 7 • sesilonn-free 9 • sealable 7 • sesilonn-free 9 • sealable 9 • seilcon-free 7 • sesilonn-free 7 • sesilonn-free 7 • sesilonn-free 7 • seconnectable conductor cross-section solid		Miniature circuit breaker
design of pole tripping characteristic class B mechanical service life (operating cycles) typical overvoltage category life (operating cycles) typical luft (operating cycles) typical overvoltage category luft (operating voltage of pollution) 2 Voltage ype of voltage of the operating voltage insulation voltage (UI) with multi-phase operation at AC rated value supply voltage at AC rated value 440 V yalue range of the supply voltage frequency operating voltage  with multi-phase operation at AC maximum at AC operating voltage with multi-phase operation at AC maximum at AC rated value maximum 72 V Protection class  Protection class IP IP20, with connected conductors  witching capacity current according to EN 60398 rated value according to EN 60398 rated value according to IEC 60947-2 rated value 6 kA according to IEC 60947-2 rated value 6 kA according to IEC 60947-2 rated value 6 kA energy limitation class 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 salable silicon-free salable silicon-free yes product extension installable supplementary devices connectable conductor cross-section sollid		
tripping characteristic class mechanical service life (operating cycles) typical overvoltage category degree of pollution 2  Voltage type of voltage of the operating voltage insulation voltage (Ui)  • with multi-phase operation at AC rated value supply voltage supply voltage supply voltage supply voltage at AC rated value 440 V  Supply voltage supply voltage supply voltage supply voltage 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  **T2 V  **Protection class IP **Switching capacity switching capacity switching capacity current • according to IEC 60947-2 rated value • according to IEC 60947-2 rated value • according to IEC 60947-2 rated value • for kA • according to IEC 6094	number of poles	
mechanical service life (operating cycles) typical overvoltage category degree of pollution 2  type of voltage of the operating voltage type of voltage of the operating voltage AC insulation voltage (UI) • with multi-phase operation at AC rated value  supply voltage supply voltage at AC rated value 440 V  Supply voltage at AC rated value yoperating voltage 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 [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 • sealable • yes • sealable • yes • sealable • yes • sealable operations installable supplementary devices  Connectable conductor cross-section solid	design of pole	3P+N
overvoltage category degree of pollution  2  Voltage  Type of voltage of the operating voltage insulation voltage (Ui)  • with multi-phase operation at AC rated value  3upply voltage supply voltage at AC rated value  440 V  Voltage supply voltage supply voltage at AC rated value  440 V  value range of the supply voltage frequency operating voltage • with multi-phase operation at AC maximum value range of the supply voltage frequency operating voltage • with multi-phase operation at AC maximum 72 V  Protection class protection class IP Switching capacity current • according to EN 60898 rated value • according to EN 60898 rated value energy limitation class  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 • sealable • yes • sealable • yes • sealable • yes • sealable operation solid	tripping characteristic class	В
degree of pollution 2  Voltage  Type of voltage of the operating voltage  with multi-phase operation at AC rated value 440 V  Supply voltage  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 6 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  selicon-free  ves  ves  Connectable conductor cross-section solid	mechanical service life (operating cycles) typical	10 000
Voltage of voltage of the operating voltage  type of voltage (Ui)  • with multi-phase operation at AC rated value  supply voltage supply voltage at AC rated value  440 V  Supply voltage at AC rated value  440 V  value range of the supply voltage frequency operating voltage  • with multi-phase operation at AC maximum at AC value maximum 72 V  Protection class protection class IP Switching capacity switching capacity current • according to EC 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 • sealable • sealable • ves • sealable • selicon-free • yes • selicon-free • yes  connectable conductor cross-section solid	overvoltage category	III
type of voltage of the operating voltage insulation voltage (Ui) • with multi-phase operation at AC rated value  Supply voltage  supply voltage 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 72 V  Protection class  protection class IP Switching capacity switching capacity switching capacity current • according to EN 60898 rated value • according to EC 60947-2 rated value 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 detairs • halogen-free • halogen-free • sealable • silicon-free • yes product extension installable supplementary devices  Connectable conductor cross-section solid	degree of pollution	2
insulation voltage (Ui)  • with multi-phase operation at AC rated value  Supply voltage  supply voltage  supply voltage at AC rated value  400 V  value range of the supply voltage frequency operating voltage  • with multi-phase operation at AC maximum 440 V  • at DC rated value maximum 72 V  Protection class  protection class IP  Switching capacity switching capacity current • according to EC 60947-2 rated value • according to IEC 60947-2 rated value 6 kA  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 • sealable • silicon-free • yes • sealable yes  product extension installable supplementary devices  Connections connectable conductor cross-section solid	Voltage	
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 IEC 60947-2 rated value     6 kA     • according to IEC 60947-2 rated value     6 kA     senergy limitation class  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole suitability for operation suitability for operation  Product details  product feature     • halogen-free     • sealable     • selable     • silicon-free     • selable     • silicon-free     • yes     • selable onductor cross-section solid  connectable conductor cross-section solid	type of voltage of the operating voltage	AC
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 switching capacity current • according to EN 60898 rated value • according to EC 60947-2 rated value energy limitation class 3  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 feature • halogen-free • sealable • silicon-free • sealable • silicon-free • yes product extension installable supplementary devices  Connections connectable conductor cross-section solid	insulation voltage (Ui)	
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 6 kA • according to IEC 60947-2 rated value 6 kA energy limitation class  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 • selicon-free Yes  product extension installable supplementary devices  Connections connectable conductor cross-section solid	<ul> <li>with multi-phase operation at AC rated value</li> </ul>	440 V
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 switching capacity current • according to EN 60898 rated value • according to IEC 60947-2 rated value 6 kA • according to IEC 60947-2 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 suitability for operation  Product details  product feature • halogen-free • sealable • silicon-free • yes product extension installable supplementary devices  Connections connectable conductor cross-section solid	Supply voltage	
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 • according to IEC 60947-2 rated value • 6 kA  • according to IEC 60947-2 rated value  for kA  • according to IEC 60947-2 rated value  switching capacity  switching ca	supply voltage at AC rated value	400 V
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     according to EN 60898 rated v	value range of the supply voltage frequency	50/60 Hz
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     • balloger loss [W] for rated value of the current at AC in hot operating state per pole     suitability for operation  Product details  product details  product feature     • halogen-free     • halogen-free     • sealable     • yes     • sealable     • sealable     • yes     • sealable     • yes     product extension installable supplementary devices  Connections  connectable conductor cross-section solid	operating voltage	
Protection class IP IP20, with connected conductors  Switching capacity  switching capacity current  • according to EN 60898 rated value 6 kA  • according to IEC 60947-2 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 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  connectable conductor cross-section solid	<ul> <li>with multi-phase operation at AC maximum</li> </ul>	440 V
protection class IP IP20, with connected conductors  Switching capacity  switching capacity current  • according to EN 60898 rated value 6 kA  • according to IEC 60947-2 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 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  connectable conductor cross-section solid	<ul> <li>at DC rated value maximum</li> </ul>	72 V
Switching capacity switching capacity current  • according to EN 60898 rated value • according to IEC 60947-2 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 suitability for operation  Product details  product feature • halogen-free • halogen-free • sealable • silicon-free product extension installable supplementary devices  Connections  connectable conductor cross-section solid	Protection class	
switching capacity current  • according to EN 60898 rated value • according to IEC 60947-2 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 suitability for operation  Product details  product feature • halogen-free • sealable • sealable • silicon-free  product extension installable supplementary devices  Connections  connectable conductor cross-section solid	protection class IP	IP20, with connected conductors
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 sealable silicon-free  product extension installable supplementary devices  Connectable conductor cross-section solid  6 kA  6	Switching capacity	
according to IEC 60947-2 rated value 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 product extension installable supplementary devices  Connectable conductor cross-section solid  8 kA  3	switching capacity current	
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 • sealable • silicon-free  product extension installable supplementary devices  Connections  connectable conductor cross-section solid	<ul> <li>according to EN 60898 rated value</li> </ul>	6 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  connectable conductor cross-section solid	<ul> <li>according to IEC 60947-2 rated value</li> </ul>	6 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  connectable conductor cross-section solid	energy limitation class	3
operating state per pole suitability for operation  Product details  product feature  • halogen-free • sealable • sealable • silicon-free  product extension installable supplementary devices  Connections  connectable conductor cross-section solid	Dissipation	
product details  product feature  • halogen-free Yes • sealable Yes • silicon-free Yes  product extension installable supplementary devices Yes  Connections  connectable conductor cross-section solid		3.4 W
product feature  • halogen-free  • sealable • silicon-free  product extension installable supplementary devices  Connections  connectable conductor cross-section solid	suitability for operation	Residential buildings/infrastructure
<ul> <li>halogen-free</li> <li>sealable</li> <li>silicon-free</li> <li>yes</li> <li>product extension installable supplementary devices</li> <li>Connections</li> <li>connectable conductor cross-section solid</li> </ul>	Product details	
sealable     silicon-free     Yes  product extension installable supplementary devices  Connections  connectable conductor cross-section solid  Yes  Yes	product feature	
sealable     silicon-free     Yes  product extension installable supplementary devices  Connections  connectable conductor cross-section solid  Yes  Yes  Yes	• halogen-free	Yes
product extension installable supplementary devices  Connections  connectable conductor cross-section solid		Yes
Connections  connectable conductor cross-section solid	• silicon-free	Yes
Connections connectable conductor cross-section solid	product extension installable supplementary devices	Yes
connectable conductor cross-section solid		
		0.75 mm²

maximum	25 mm²
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	72 mm
depth	76 mm
installation depth	70 mm
number of modular width units	4
mounting position	any
net weight	590 g
Environmental conditions	
ambient temperature during operation	
• minimum	-25 °C
• maximum	45 °C
ambient temperature during storage	
• minimum	-40 °C
• maximum	75 °C
Approvals Certificates	



**General Product Approval** 

Confirmation









**Declaration of Con-**

formity

Declaration of Conformity other Environment



Miscellaneous

Confirmation

Environmental Confirmations

## 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=5SL6640-6

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

https://support.industry.siemens.com/cs/ww/en/ps/5SL6640-6

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

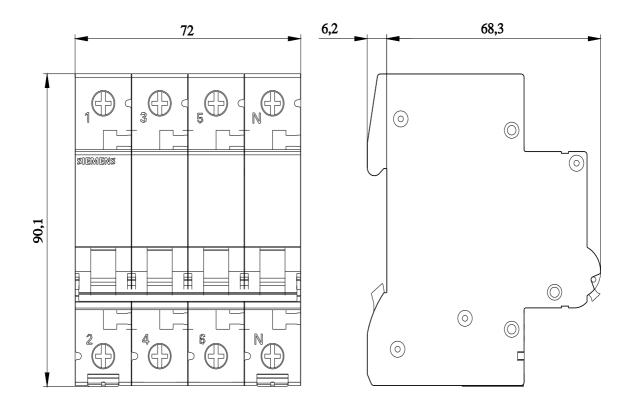
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=5SL6640-6

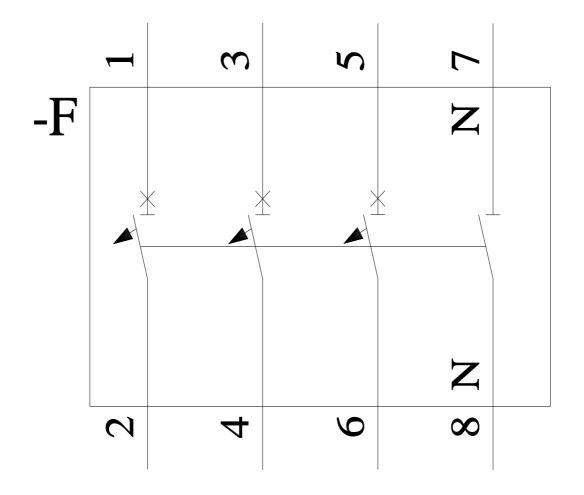
**CAx-Online-Generator** 

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





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