## SIEMENS

## Data sheet

## 5SL6225-7

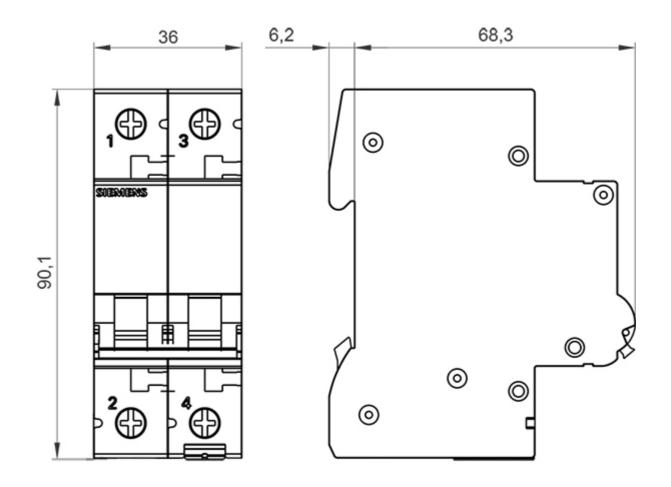


Miniature circuit breaker 400 V 6kA, 2-pole, C, 25A

product brand name         SENTRON           product designation         Miniature circuit breaker           Censual technical data         Image and the service life (switching cycles) / typical           number of poles         2           tripping characteristic class         C           mechanical service life (switching cycles) / typical         10 000           overvoltage category         III           degree of pollution         2           Voltage         Yot ottage (of the operating voltage)           insulation voltage (UI)         AC           insulation voltage (UI)         440 V           Supply voltage         440 V           Supply voltage / at AC / rated value         400 V           overting voltage         400 V           operating voltage         440 V           supply voltage / at AC / rated value         400 V           operating voltage         400 V           eit DC / rated value / maximum         72 V           Protection class IP         IP20, with connected conductors           Switching capacity current         6 kA           energy limitation class         3           Discongraphic capacity current         6 kA           energy limitation class         3           Displa	Model	
General technical data         number of poles       2         tripping characteristic class       C         mechanical service life (switching cycles) / typical       10 000         overvoltage category       III         degree of pollution       2         Voltage       Yote ovoltage / of the operating voltage         insulation voltage (U)       AC         • with multi-phase operation / at AC / rated value       440 V         Supply voltage / at AC / rated value       440 V         Supply voltage / at AC / rated value       440 V         • with multi-phase operation / at AC / maximum       440 V         • with multi-phase operation / at AC / maximum       440 V         • with multi-phase operation / at AC / maximum       72 V         Protection class       Protection class         protection class IP       IP20, with connected conductors         Switching capacity current       6 kA         • acc. to EX 60898 / rated value       6 kA         • acc. to IEC 60947-2 / rated value       6 kA         • acc. to IEC 60947-2 / rated value       6 kA         • act to V / rated value of the current / at AC / in hot operating state / per pole       2.6 W         Current       2.6 W         operational current       25 A	product brand name	SENTRON
number of poles         2           tripping characteristic class         C           mechanical service life (switching cycles) / typical         10 000           overvotage category         III           degree of pollution         2           Voltage         AC           insulation voltage (U)         440 V           • with multi-phase operation / at AC / rated value         440 V           Supply voltage         at C / rated value           • with multi-phase operation / at AC / maximum         400 V           operating voltage         400 V           operating voltage         at C / rated value           • with multi-phase operation / at AC / maximum         72 V           Protection class IP         IP20, with connected conductors           switching capacity         switching capacity current           • acc. to EIX 60898 / rated value         6 kA           • acc. to EIX 60892 / rated value         6 kA           energy limitation class         3           power loss [W] / for rated value of the current / at AC / in         2.6 W           current         operational current         2.6 W           otrast davalue         25 A         3           operational current         et 30 °C / rated value         25 A	product designation	Miniature circuit breaker
tripping characteristic class       C         mechanical service life (switching cycles) / typical       10 000         overvoltage category       III         degree of pollution       2         Voltage       AC         insulation voltage / of the operating voltage       AC         insulation voltage (Ui)       440 V         supply voltage       440 V         Supply voltage       400 V         operating voltage       400 V         operating voltage / af AC / rated value       400 V         operating voltage       600 V         operating voltage       600 V         operating capacity       500 V         switching capacity       500 V         switching capacity current       6 kA         eacc. to Ele 60947-2 / rated value       6 kA         energy limitation class       3         Dissipation       25 A         operational current       25 A         eat 40 °C / rated	General technical data	
mechanical service life (switching cycles) / typical         10 000           overvoltage category         III           degree of pollution         2           Voltage         (ype of voltage / of the operating voltage         AC           insulation voltage (Ui)         440 V           • with multi-phase operation / at AC / rated value         440 V           Supply voltage         supply voltage           • with multi-phase operation / at AC / rated value         400 V           operating voltage         440 V           • with multi-phase operation / at AC / maximum         440 V           • at DC / rated value / maximum         72 V           Protection class         IP20, with connected conductors           Switching capacity         switching capacity           switching capacity current         6 kA           • acc. to EIX 6098/ rated value         6 kA           • acc. to EIX 6098/ rated value         6 kA           energy limitation class         3           Dissipation         2.6 W           operational current         25 A           • at 40 °C / rated value         25 A           • at 30 °C / rated value         25 A           • at 45 °C / rated value         25 A           • at 45 °C / rated value         <	number of poles	2
overvoltage category       III         degree of pollution       2         Votage       AC         insulation voltage (Ui)       AC         • with multi-phase operation / at AC / rated value       440 V         Supply voltage / at AC / rated value       400 V         Supply voltage / at AC / rated value       400 V         operating voltage / at AC / rated value       400 V         operating voltage / at AC / rated value       400 V         operating voltage / at AC / rated value       400 V         operating voltage / at AC / rated value       400 V         operating voltage / at AC / rated value       400 V         operating voltage / at AC / rated value       400 V         operating voltage / at AC / rated value / maximum       72 V         Protection class IP       IP20, with connected conductors         Switching capacity current       6 kA         • acc. to EN 60898 / rated value       6 kA         energy limitation class       3         Dissipation       2.6 W         operating state / per pole       2.6 W         current       25 A         operational current       2.6 A         • at 40 °C / rated value       25 A         • at 40 °C / rated value       25 A	tripping characteristic class	C
degree of pollution       2         Vottage       AC         insulation voltage (U)       440 V         supply voltage       440 V         Supply voltage / at AC / rated value       400 V         operating voltage / at AC / rated value       400 V         operating voltage / at AC / rated value       400 V         operating voltage / at AC / rated value       400 V         operating voltage / at AC / rated value       400 V         operating voltage / at AC / rated value       440 V         • with multi-phase operation / at AC / maximum       440 V         • at DC / rated value / maximum       72 V         Protection class       protection class         protection class IP       IP20, with connected conductors         switching capacity current       6 kA         • acc. to EN 60898 / rated value       6 kA         • acc. 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       2.6 W         current       operational current       25 A         • at 30 °C / rated value       25 A         • at 40 °C / rated value       25 A         • at 40 °C / rated value <t< td=""><td>mechanical service life (switching cycles) / typical</td><td>10 000</td></t<>	mechanical service life (switching cycles) / typical	10 000
Voltage       AC         insulation voltage / of the operating voltage       AC         insulation voltage (U)       440 V         Supply voltage       440 V         Supply voltage / at AC / rated value       400 V         operating voltage       400 V         operating voltage       400 V         operating voltage       440 V         e with multi-phase operation / at AC / maximum       440 V         e at DC / rated value / maximum       72 V         Protection class       protection class IP         protection class IP       IP20, with connected conductors         Switching capacity       switching capacity current         e acc. to EIC 60947-2 / rated value       6 kA         e acc to IEC 60947-2 / rated value       6 kA         energy limitation class       3         Dissipation       2.6 W         operational current       2.6 W         int at 0 °C / rated value       25 A         e at 30 °C / rated value       25 A         e at 45 °C / rated value       25 A         e at 45 °C / rated value       25 A         e at 45 °C / rated value       25 A         e at 45 °C / rated value       25 A         e at 4C / rated value       25 A	overvoltage category	III
type of voltage / of the operating voltage       AC         insulation voltage (Ui)       • with multi-phase operation / at AC / rated value       440 V         Supply voltage       400 V         operating voltage       400 V         • with multi-phase operation / at AC / maximum       440 V         • with multi-phase operation / at AC / maximum       440 V         • at DC / rated value / maximum       72 V         Protection class       protection class IP         protection class IP       IP20, with connected conductors         Switching capacity       switching capacity current         • acc. to EN 60898 / rated value       6 kA         • acc. to IEC 60947-2 / rated value       6 kA         • acc. to IEC 60947-2 / rated value       6 kA         • acc. to IEC 60947-2 / rated value       6 kA         • acc. to IEC 60947-2 / rated value       6 kA         • acc. to IEC 60947-2 / rated value       2.6 W         power loss [M] / for rated value of the current / at AC / in hot operating state / per pole       2.6 W         Operational current       2.5 A         • at 30 °C / rated value       25 A         • at 45 °C / rated value       25 A         • at 45 °C / rated value       25 A         • at 45 °C / rated value       25 A	degree of pollution	2
insulation voltage (Ui)       • with multi-phase operation / at AC / rated value       440 V         Supply voltage       400 V         operating voltage / at AC / rated value       400 V         operating voltage / at AC / rated value       400 V         operating voltage / at AC / rated value       400 V         operating voltage / at AC / rated value / maximum       440 V         • with multi-phase operation / at AC / maximum       440 V         • at DC / rated value / maximum       72 V         Protection class       protection class         protection class IP       IP20, with connected conductors         Switching capacity current       6 kA         • acc. to EN 60989 / rated value       6 kA         • acc. to IEC 60947-2 / rated value       6 kA         • energy limitation class       3         Dissipation       2.6 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole         Current       0perational current         • at 30 °C / rated value       25 A         • at 40 °C / rated value       21 A         • at 42 °C / rated value       21 A         • at 42 rated value       25 A         suitability for operation       Residential buildings/infrastructure	Voltage	
• with multi-phase operation / at AC / rated value       440 V         Supply voltage       400 V         operating voltage       400 V         • with multi-phase operation / at AC / maximum       440 V         • at DC / rated value / maximum       72 V         Protection class       protection class IP         protection class IP       IP20, with connected conductors         Switching capacity       switching capacity current         • acc. to EN 60898 / rated value       6 kA         • acc. to EC 60947-2 / rated value       6 kA         energy limitation class       3         Dissipation       2.6 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       2.6 W         current       eat 30 °C / rated value       25 A         • at 40 °C / rated value       25 A         • at 45 °C / rated value       21 A         • at AC / rated value       21 A         • at AC / rated value       25 A <td>type of voltage / of the operating voltage</td> <td>AC</td>	type of voltage / of the operating voltage	AC
Supply voltage       400 V         operating voltage       400 V         • with multi-phase operation / at AC / maximum       440 V         • at DC / rated value / maximum       72 V         Protection class       protection class IP         protection class IP       IP20, with connected conductors         Switching capacity       switching capacity current         • acc. to EN 60898 / rated value       6 kA         • acc. to EC 60947-2 / rated value       6 kA         • acc. to IEC 60947-2 / rated value       6 kA         energy limitation class       3         Dissipation       2.6 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole         Current       2.5 A         operational current       2.48 A         • at 40 °C / rated value       25 A         • at 45 °C / rated value       21 A         • at 55 °C / rated value       25 A         • at AC / rated value       25 A         • at AC / rated value       21 A         • at AC / rated value       25 A         • at AC / rated value       25 A         • at AC / rated value       25 A	insulation voltage (Ui)	
supply voltage / at AC / rated value       400 V         operating voltage       440 V         • with multi-phase operation / at AC / maximum       440 V         • at DC / rated value / maximum       72 V         Protection class       IP20, with connected conductors         switching capacity       IP20, with connected conductors         switching capacity       6 kA         • acc. to EN 60898 / rated value       6 kA         • acc. to IEC 60947-2 / rated value       6 kA         energy limitation class       3         Dissipation       2.6 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       2.6 W         operational current       440 °C / rated value         • at 40 °C / rated value       25 A         • at 40 °C / rated value       22.5 A         • at 45 °C / rated value       21 A         • at AC / rated value       25 A         • at AC / rated value       25 A         • at AC / rated value       22.5 A         • at AC / rated value       25 A      <	<ul> <li>with multi-phase operation / at AC / rated value</li> </ul>	440 V
operating voltage       440 V         • with multi-phase operation / at AC / maximum       440 V         • at DC / rated value / maximum       72 V         Protection class       protection class IP         protection class IP       IP20, with connected conductors         Switching capacity       switching capacity current         • acc. to EN 60898 / rated value       6 kA         • acc. to IEC 60947-2 / rated value       6 kA         • acc. to IEC 60947-2 / rated value       6 kA         energy limitation class       3         Dissipation       2.6 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       2.6 W         Current       at 40 ° C / rated value       25 A         • at 40 ° C / rated value       23.48 A         • at 45 ° C / rated value       21 A         • at 55 ° C / rated value       25 A         • at AC / rated value       25 A         • suitability for operation       Residential buildings/infrastructure	Supply voltage	
<ul> <li>with multi-phase operation / at AC / maximum</li> <li>at DC / rated value / maximum</li> <li>72 V</li> <li>Protection class</li> <li>protection class IP</li> <li>IP20, with connected conductors</li> <li>Switching capacity</li> <li>switching capacity current         <ul> <li>acc. to EN 60898 / rated value</li> <li>6 kA</li> <li>acc. to IEC 60947-2 / rated value</li> <li>6 kA</li> <li>energy limitation class</li> <li>3</li> </ul> </li> <li>Dissipation         <ul> <li>power loss [W] / for rated value of the current / at AC / in hot operating state / per pole</li> <li>Current</li> <li>operational current                 <ul> <li>at 30 °C / rated value</li> <li>25 A</li> <li>at 45 °C / rated value</li> <li>at 55 °C / rated value</li> <li>at AC / rated value</li></ul></li></ul></li></ul>	supply voltage / at AC / rated value	400 V
• at DC / rated value / maximum       72 V         Protection class       IP20, with connected conductors         switching capacity       IP20, with connected conductors         switching capacity current       6 kA         • acc. to EN 60898 / rated value       6 kA         • acc. to IEC 60947-2 / rated value       6 kA         • acc. to IEC 60947-2 / rated value       6 kA         • acc. to IEC 60947-2 / rated value       6 kA         • acc. to IEC 60947-2 / rated value       6 kA         • acc. to IEC 60947-2 / rated value       6 kA         • acc. to IEC 60947-2 / rated value       6 kA         • acc. to IEC 60947-2 / rated value       6 kA         • acc. to IEC 60947-2 / rated value       6 kA         • acc. to IEC 60947-2 / rated value       8         Operating state / per pole       2.6 W         Current       2.6 W         operational current       2.6 W         • at 30 °C / rated value       25 A         • at 40 °C / rated value       22.5 A         • at 45 °C / rated value       21 A         • at AC / rated value       25 A	operating voltage	
Protection class       IP20, with connected conductors         switching capacity       switching capacity current         • acc. to EN 60898 / rated value       6 kA         • acc. to EN 60998 / rated value       6 kA         • acc. to IEC 60947-2 / rated value       6 kA         energy limitation class       3         Dissipation       3         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       2.6 W         current       operational current         • at 30 °C / rated value       25 A         • at 40 °C / rated value       23.48 A         • at 45 °C / rated value       21 A         • at 55 °C / rated value       21 A         • at AC / rated value       25 A         • at AC / rated value       25 A	<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         • acc. to EN 60898 / rated value       6 kA         • acc. to IEC 60947-2 / rated value       6 kA         energy limitation class       3         Dissipation       3         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       2.6 W         Current       2.6 W         operational current       2.4 M         • at 30 °C / rated value       25 A         • at 40 °C / rated value       23.48 A         • at 45 °C / rated value       21 A         • at 55 °C / rated value       25 A         • at AC / rated value       25 A         • at AC / rated value       21 A         • at AC / rated value       25 A	<ul> <li>at DC / rated value / maximum</li> </ul>	72 V
Switching capacity         switching capacity current         • acc. to EN 60898 / rated value         6 kA         • acc. 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         Current         operational current         • at 30 °C / rated value         • at 40 °C / rated value         • at 45 °C / rated value         • at 55 °C / rated value         • at AC / rated value <td>Protection class</td> <td>_</td>	Protection class	_
switching capacity current       6 kA         • acc. to EN 60898 / rated value       6 kA         • acc. to IEC 60947-2 / rated value       6 kA         energy limitation class       3         Dissipation       3         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       2.6 W         Current       0         operational current       2.6 W         • at 30 °C / rated value       25 A         • at 40 °C / rated value       23.48 A         • at 45 °C / rated value       22.5 A         • at 55 °C / rated value       21 A         • at AC / rated value       25 A         • at AC / rated value       25 A         • at 45 °C / rated value       25 A         • at 45 °C / rated value       25 A         • at 45 °C / rated value       25 A         • at AC / rated value       25 A	protection class IP	IP20, with connected conductors
<ul> <li>acc. to EN 60898 / rated value</li> <li>acc. to IEC 60947-2 / rated value</li> <li>6 kA</li> <li>energy limitation class</li> <li>3</li> <li>Dissipation</li> <li>power loss [W] / for rated value of the current / at AC / in hot operating state / per pole</li> <li>Current</li> <li>operational current <ul> <li>at 30 °C / rated value</li> <li>25 A</li> <li>at 40 °C / rated value</li> <li>23.48 A</li> <li>at 45 °C / rated value</li> <li>25 A</li> <li>at 45 °C / rated value</li> <li>25 A</li> <li>at 55 °C / rated value</li> <li>25 A</li> <li>at AC / rated value</li> <li>25 A</li> </ul> </li> <li>at AC / rated value</li> <li>25 A</li> <li>at AC / rated value</li> <li>25 A</li> <li>Bat 45 °C / rated value</li> <li>Chrated va</li></ul>	Switching capacity	
• acc. to IEC 60947-2 / rated value6 kAenergy limitation class3Dissipation2.6 Wpower loss [W] / for rated value of the current / at AC / in hot operating state / per pole2.6 WCurrent2.6 Woperational current • at 30 °C / rated value25 Aat 40 °C / rated value23.48 A• at 45 °C / rated value22.5 A• at 55 °C / rated value21 A• at AC / rated value25 A• at AC / rated value25 A	switching capacity current	
energy limitation class3Dissipationpower loss [W] / for rated value of the current / at AC / in hot operating state / per pole2.6 WCurrent2.6 Woperational current2.5 A• at 30 °C / rated value25 A• at 40 °C / rated value23.48 A• at 45 °C / rated value22.5 A• at 55 °C / rated value21 A• at AC / rated value25 A• at big °C / rated value21 A• at AC / rated value25 A• at AC / rated value25 A	<ul> <li>acc. 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       2.6 W         Current       0         operational current       25 A         • at 30 °C / rated value       23.48 A         • at 45 °C / rated value       22.5 A         • at 55 °C / rated value       21 A         • at AC / rated value       25 A	<ul> <li>acc. 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 pole2.6 WCurrentoperational current • at 30 °C / rated value25 Aat 40 °C / rated value23.48 A• at 45 °C / rated value22.5 A• at 55 °C / rated value21 A• at AC / rated value25 A	energy limitation class	3
hot operating state / per pole         Current         operational current         • at 30 °C / rated value       25 A         • at 40 °C / rated value       23.48 A         • at 45 °C / rated value       22.5 A         • at 55 °C / rated value       21 A         • at AC / rated value       25 A	Dissipation	
operational current25 A• at 30 °C / rated value23.48 A• at 40 °C / rated value23.48 A• at 45 °C / rated value22.5 A• at 55 °C / rated value21 A• at AC / rated value25 Asuitability for operationResidential buildings/infrastructure		2.6 W
• at 30 °C / rated value25 A• at 40 °C / rated value23.48 A• at 45 °C / rated value22.5 A• at 55 °C / rated value21 A• at AC / rated value25 Asuitability for operationResidential buildings/infrastructure	Current	
• at 40 °C / rated value23.48 A• at 45 °C / rated value22.5 A• at 55 °C / rated value21 A• at AC / rated value25 Asuitability for operationResidential buildings/infrastructure	operational current	
• at 45 °C / rated value22.5 A• at 55 °C / rated value21 A• at AC / rated value25 Asuitability for operationResidential buildings/infrastructure	<ul> <li>at 30 °C / rated value</li> </ul>	25 A
• at 55 °C / rated value21 A• at AC / rated value25 Asuitability for operationResidential buildings/infrastructure	• at 40 °C / rated value	23.48 A
• at AC / rated value     25 A       suitability for operation     Residential buildings/infrastructure	• at 45 °C / rated value	22.5 A
suitability for operation Residential buildings/infrastructure	• at 55 °C / rated value	21 A
	at AC / rated value	25 A
Product details	suitability for operation	Residential buildings/infrastructure
	Product details	

product component / neutral conductor switching	No		
product component / neutral conductor switching	Yes		
product feature / touch protection product feature	100		
halogen-free	Yes		
sealable	Yes		
selable     silicon-free	Yes		
	Yes		
product extension / installable / supplementary devices Connections	res		
connectable conductor cross-section / solid	0.75		
• minimum	0.75 mm <sup>2</sup>		
• maximum	25 mm <sup>2</sup>		
connectable conductor cross-section / stranded	0.75		
• minimum	0.75 mm <sup>2</sup>		
• maximum	25 mm <sup>2</sup>		
connectable conductor cross-section / finely stranded / with core end processing			
• minimum	0.75 mm <sup>2</sup>		
maximum	25 mm²		
tightening torque / with screw-type terminals			
• minimum	2.5 N·m		
maximum	3 N·m		
Mechanical Design			
height	90 mm		
width	36 mm		
depth	76 mm		
installation depth	70 mm		
number of modular width units	2		
mounting position	any		
net weight	235 g		
Environmental conditions			
ambient temperature / during operation			
• minimum	-25 °C		
• maximum	45 °C		
ambient temperature / during storage			
• minimum	-40 °C		
• maximum	75 °C		
Certificates			
reference code			
• acc. to DIN EN 61346-2	F		
• acc. to IEC 81346-2	F		
General Product Approval		Declaration of Conformity	other
	EAC	CE	Miscellaneous
CÉBEC VDE		EG-Konf.	

on- and Downloadcenter (Catalogs, Brochures,) v.siemens.com/lowvoltage/catalogs	
Mall (Online ordering system) II.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SL6225-7	
Support (Manuals, Certificates, Characteristics, FAQs,) pport.industry.siemens.com/cs/ww/en/ps/5SL6225-7	
tabase (product images, 2D dimension drawings, 3D models, device circuit diagrams,) v.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL6225-7	
 ne-Generator	



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