SIEMENS

Data sheet 5SL6450-7



Miniature circuit breaker 400 V 6kA, 4-pole, C, 50 A

Model			
product brand name	SENTRON		
product designation	Miniature circuit breaker		
General technical data			
number of poles	4		
tripping characteristic class	С		
mechanical service life (switching 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			
supply voltage / at AC / rated value	400 V		
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			
• 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	3.8 W		
power loss [W] / for rated value of the current / at AC / in	3.8 W		
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	3.8 W		
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current	3.8 W 50 A		
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current			
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	50 A		
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	50 A 46.97 A		
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	50 A 46.97 A 46 A		
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	50 A 46.97 A 46 A 42.01 A		

	NI-			
product component / neutral conductor switching	No			
product feature / touch protection	Yes			
product feature	V			
halogen-free	Yes			
• sealable	Yes			
• silicon-free	Yes			
product extension / installable / supplementary devices Yes				
Connections				
connectable conductor cross-section / solid	0.75			
• minimum		0.75 mm²		
• maximum	25 mm²			
connectable conductor cross-section / stranded				
• minimum	0.75 mm ²			
• maximum	25 mm²			
connectable conductor cross-section / finely stranded / with core end processing				
• minimum	0.75 mm ²			
maximum	25 mm ²			
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	615 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	F		
• acc. to IEC 81346-2	F			
General Product Approval		Declaration of Conformity	other	









Miscellaneous

Further information

 $Information-\ and\ Download center\ (Catalogs,\ Brochures,...)$

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SL6450-7

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

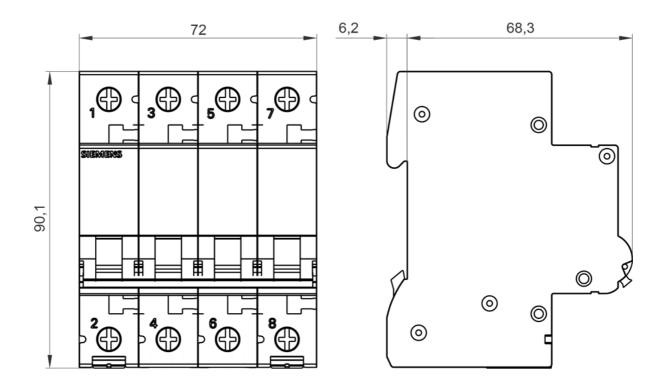
https://support.industry.siemens.com/cs/ww/en/ps/5SL6450-7

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL6450-7

CAx-Online-Generator

http://www.siemens.com/cax



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