SIEMENS

Data sheet 5SL6450-6

CIRCUIT BREAKER 400V 6KA, 4POLE, B, 50A

Model		
product brand name		SENTRON
Product designation		Miniature circuit breakers
Design of the product		5SL miniature circuit breakers
General technical data		
Number of poles		4
Number of poles / Note		4P
Tripping characteristic class		B
circuit-breaker / Design		5SL6
Mechanical service life (switching cycles) / typical		20 000
Overvoltage category		3
Voltage		
Type of voltage		AC/DC
Insulation voltage		
• with multi-phase operation / at AC / rated value	V	440
Supply voltage		
Supply voltage frequency / rated value	Hz	50
Protection class		
Protection class IP		IP20, with connected conductors
Energy limiting class		3
Switching capacity		
Switching capacity current		
• acc. to EN 60898 / rated value	kA	6
• acc. to IEC 60947-2 / rated value	kA	6
Dissipation		
Power loss [W]		
• for rated value of the current / at AC / in hot operating state / per pole	W	3.8
• maximum	W	11.4
Electricity		
rated current In / IEC, DIN/VDE / at 40 Cel	A	46.96682
Current / at AC / rated value	A	50
Main circuit		
Operating voltage		

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• minimum	V	24
• at DC / rated value / maximum	V	60
• with multi-phase operation / at AC / maximum	V	440

Product details

Product feature / Touch protection		Yes
Product feature		
• halogen-free		Yes
• sealable		Yes
• silicon-free		Yes
Product extension / can be installed / supplementary devices		Yes

Product function

Product function / neutral conductor switching		No

Number

Number of test cycles / for environmental testing / acc. to IEC 60068-2-30		6

Connections

Connectable conductor cross-section / stranded		
• minimum	mm²	0.75
• maximum	mm²	35
Connectable conductor cross-section		
• solid		
— minimum	mm²	0.75
— maximum	mm²	35
• finely stranded / with core end processing		
— minimum	mm²	0.75
— maximum	mm²	25
Tightening torque / with screw-type terminals		
• minimum	N·m	2.5
• maximum	N·m	3

Mechanical Design

Height	mm	90
Width	mm	36
Depth	mm	76
Mounting position		any
Installation depth	mm	70
Number of width units		4
Net weight	g	629

Environmental conditions

Degree of pollution		2

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Influence of the surrounding temperature		Periodically +55°C, max. 95% humidity
Ambient temperature		
• minimum	°C	-25
• maximum	°C	45
• during storage / minimum	°C	-40
• during storage / maximum	°C	75

Certificates

Equipment marking		
• acc. to DIN EN 61346-2		F
• acc. to DIN EN 81346-2		F

General Product Approval



CEBEC


CCC


IMQ



VDE



TSE

Declaration of Conformity	Test Certificates
CE EG-Konf.	sonstig

Further information

Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/5SL64506

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/5SL64506/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SL64506

CAx-Online-Generator
http://www.siemens.com/cax

Tender specifications
http://ausschreibungstexte.siemens.com/tiplv

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