## SIEMENS

## Data sheet

## 5SL6650-7

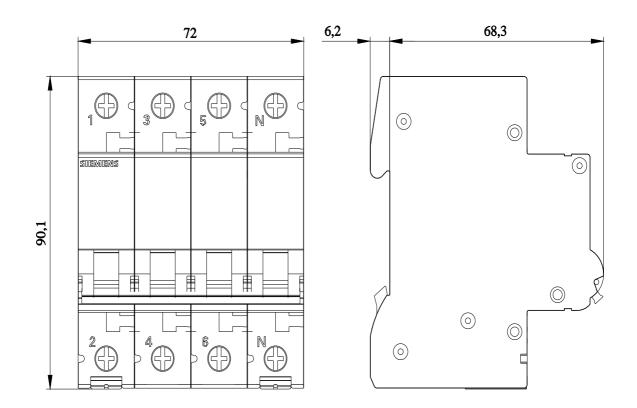


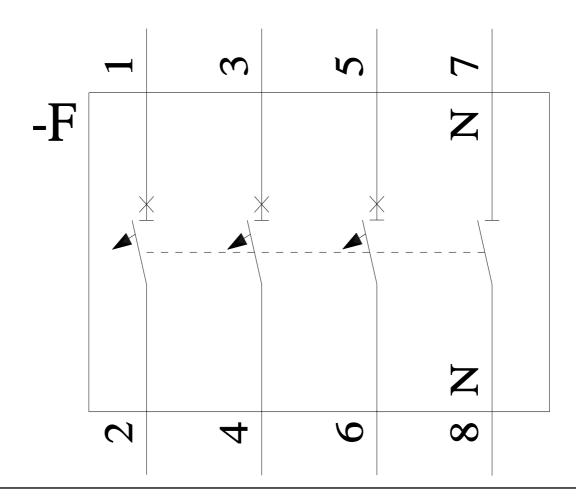
Miniature circuit breaker 400 V 6kA, 3+N-pole, C, 50 A

Model		
product brand name	SENTRON	
product designation	Miniature circuit breaker	
General technical data		
number of poles	4	
design of pole	3P+N	
tripping characteristic class	С	
mechanical service life (operating cycles)		
• typical	10 000	
overvoltage category	III	
degree of pollution	2	
Voltage		
type of voltage of the operating voltage	AC	
type of voltage	Use only in alternating current or direct current circuits. Mixed use is not permitted.	
insulation voltage (Ui)		
<ul> <li>with multi-phase operation at AC rated value</li> </ul>	440 V	
operational current		
• at 30 °C rated value	50 A	
• at 40 °C rated value	46.97 A	
• at 55 °C rated value	42.01 A	
at AC rated value	50 A	
Supply voltage		
supply voltage at AC	400 V	
value range of the supply voltage frequency	50/60 Hz	
operating voltage		
<ul> <li>with multi-phase operation at AC maximum</li> </ul>	440 V	
<ul> <li>at DC rated value maximum</li> </ul>	62.5 V	
•	The operational voltage 62,5V DC/pole takes into account a battery charging voltage with peak value of 72V	
Protection class		
protection class IP	IP20, with connected conductors	
Breaking Capacity		
switching capacity current		
<ul> <li>according to EN 60898 rated value</li> </ul>	6 kA	
<ul> <li>according to IEC 60947-2 rated value</li> </ul>	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	
suitability for operation	Residential buildings/infrastructure	

Product details	
product feature touch protection	Yes
product component neutral conductor switching	Yes
product feature	
halogen-free	Yes
• sealable	Yes
• silicon-free	Yes
product extension installable supplementary devices	Yes
Connections	
connectable conductor cross-section solid	
• minimum	0.75 mm <sup>2</sup>
• maximum	25 mm <sup>2</sup>
connectable conductor cross-section stranded	
• 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 mm <sup>2</sup>
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
mounting position	any
net weight	639 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	
CEBEC EG-Konf.	
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other Environm	nent
	nental Con- Environmental Con- nations firmations
<u>tirma</u>	

Further information
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=5SL6650-7
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/5SL6650-7
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=5SL6650-7
CAx-Online-Generator





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