SIEMENS

Data sheet

5SL6650-7

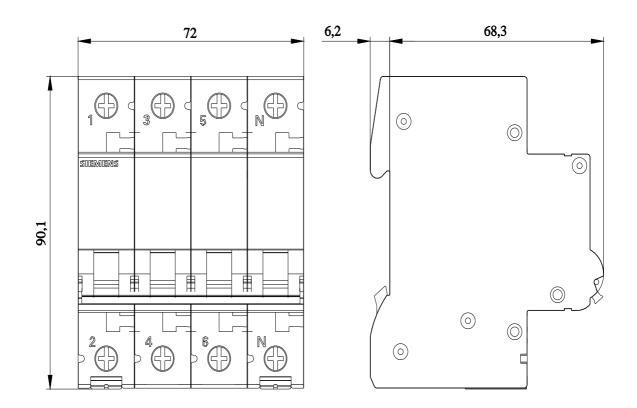


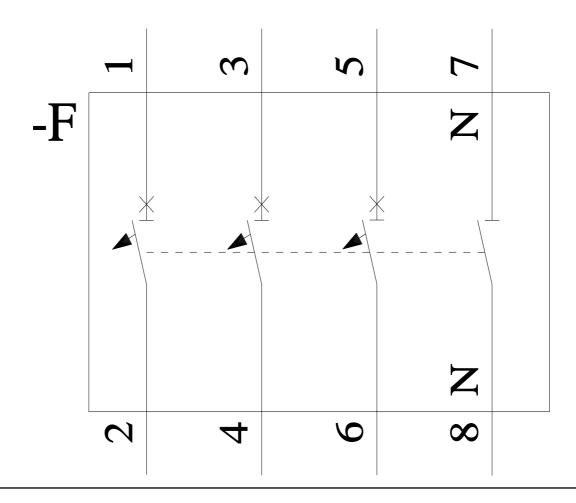
Miniature circuit breaker 400 V 6kA, 3+N-pole, C, 50 A

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)		
 with multi-phase operation at AC rated value 	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		
 with multi-phase operation at AC maximum 	440 V	
 at DC rated value maximum 	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		
 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	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 ²
• maximum	25 mm ²
connectable conductor cross-section stranded	
• minimum	0.75 mm ²
• maximum	25 mm ²
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
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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