SIEMENS

Data sheet

5SY6413-6

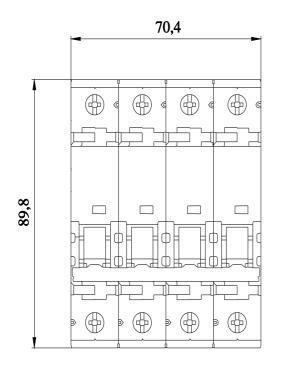


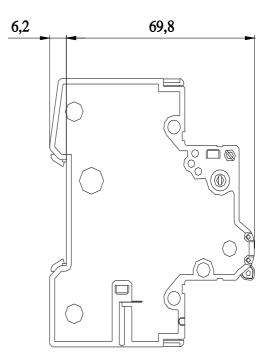
Miniature circuit breaker 400 V 6kA, 4-pole, B, 13 A, D=70 mm

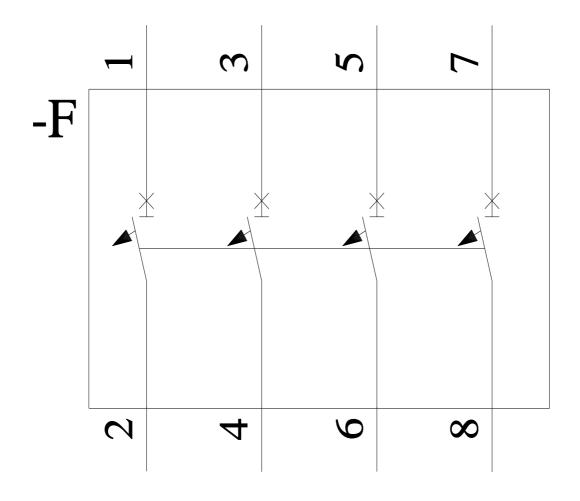
Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	4
design of pole	4P
tripping characteristic class	В
mechanical service life (operating cycles) typical	10 000
overvoltage category	III
degree of pollution	3
Voltage	
type of voltage of the operating voltage	AC
insulation voltage (Ui)	
 with single-phase operation at AC rated value 	440 V
 with multi-phase operation at AC rated value 	440 V
supply voltage with single-phase operation at AC rated value	230 V
Supply voltage	
supply voltage	
• at AC rated value	400 V
• at DC rated value	60 V
value range of the supply voltage frequency	50/60 Hz
operating voltage at DC rated value maximum	72 V
Protection class	
protection class IP	IP20, with connected conductors
Switching capacity	
switching capacity current	
 at DC according to IEC 60947-2 rated value 	15 kA
 according to EN 60898 rated value 	6 kA
 according to IEC 60947-2 rated value 	15 kA
energy limitation class	3
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	1.7 W
suitability for operation	Mechanical engineering / industry
Product details	
product component	
 combined terminal top 	Yes
 combined terminal bottom 	Yes
neutral conductor switching	No
product feature	

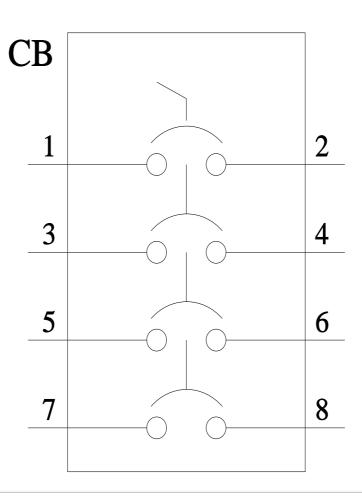
 properties for main switches in accordance with EN 60204-1 	Yes				
halogen-free	Yes				
• sealable	Yes				
silicon-free	Yes				
product extension installable supplementary devices	Yes				
Short circuit					
short-circuit current breaking capacity (Icn)					
at AC according to UL 1077 and CSA C22.2 No.235	5 kA				
Connections					
connectable conductor cross-section solid					
• minimum	0.75 mm²				
• maximum	35 mm ²				
connectable conductor cross-section stranded					
• minimum	0.75 mm²				
• maximum	35 mm ²				
connectable conductor cross-section finely stranded with core					
end processing					
• minimum	0.75 mm ²				
• maximum	25 mm²				
AWG number as coded connectable conductor cross section					
• minimum	18				
• maximum	4				
tightening torque [lbf·in] with screw-type terminals					
• minimum	22 lbf in				
• maximum	31 lbf in				
tightening torque with screw-type terminals					
● minimum	2.5 N·m				
maximum	3.5 N·m				
position of power supply cord	Any				
Mechanical Design					
height	90 mm				
width	72 mm				
depth	76 mm				
installation depth	70 mm				
number of modular width units	4				
fastening method	Quick assembly system				
mounting position	any				
net weight	620 g				
Environmental conditions					
influence of the surrounding temperature	max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C				
standard	IEC / EN 60898-1, IEC / EN 60947-2 / UL1077				
vibration resistance according to IEC 60068-2-6	±1mm at 5 to 25Hz; 50m/s² at 25 to 150Hz				
ambient temperature during operation					
• minimum	-25 °C				
maximum	55 °C				
ambient temperature during storage					
• minimum	-40 °C				
maximum	75 °C				
number of test cycles for environmental testing according to IEC 60068-2-30	6				
General Product Approval					
Confirmation					
General Product Approval EMC	Declaration of Conformity Test Certificates				

EAC	<u>Miscellaneous</u>		CE EG-Konf.	UK CA	<u>Miscellaneous</u>
Marine / Shipping					other
ABS	BUREAU VERITAS	Hoyd's Register uis	RINA	DNV-GL DNV-GL DWGLCDRD	<u>Confirmation</u>
other	Environment				
Miscellaneous Further information Siemens has decided	Environmental Con- firmations	et (see here).			
https://press.siemens. Siemens is working of Please contact your lo	com/global/en/pressrelease/ on the renewal of the curre cal Siemens office on the sta other than the sanctioned E/ ackaging	siemens-wind-down-russ nt EAC certificates. atus of validity of the EAC	certification if you inten	d to import or offer to sup	ply these products to an









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