SIEMENS

Data sheet

5SY4413-5

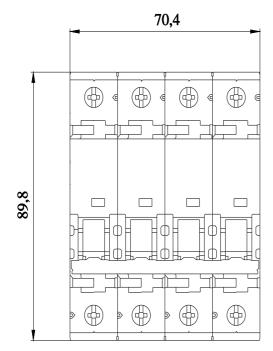


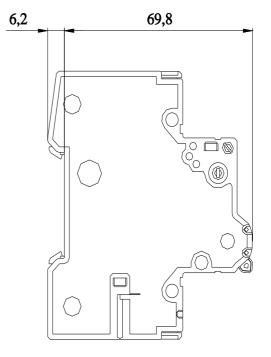
Miniature circuit breaker 400 V 10kA, 4-pole, A, 13 A, D=70 mm

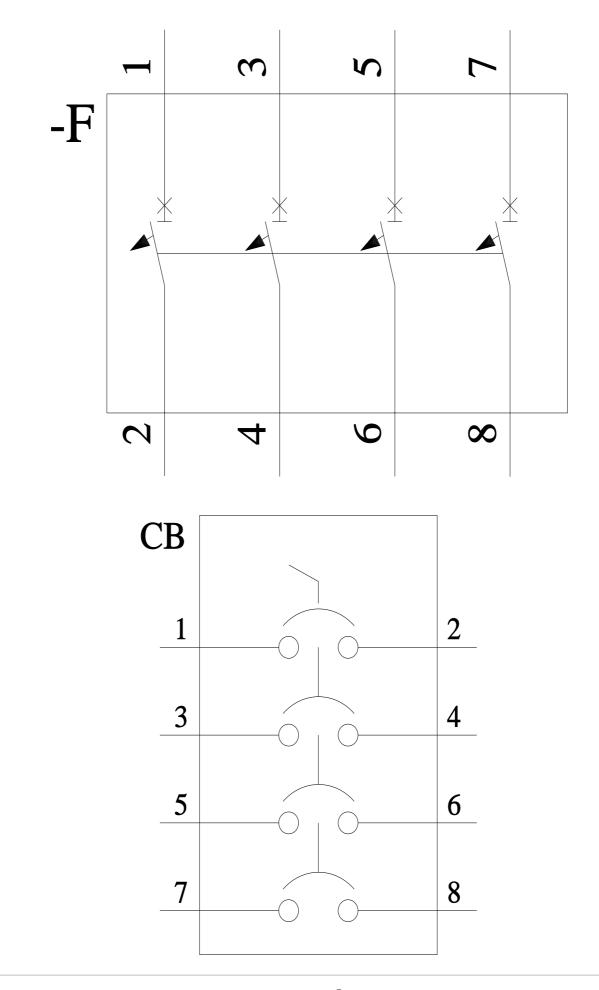
Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	4
design of pole	4P
tripping characteristic class	A
mechanical service life (operating cycles) typical	10 000
overvoltage category	Ш
degree of pollution	3
Voltage	
type of voltage of 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 	10 kA
 according to IEC 60947-2 rated value 	20 kA
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	2 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 	Yes

60204-1					
 halogen-free 		Yes			
• sealable		Yes			
silicon-free		Yes			
product extension installable supplementary device	ces	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 mm ²			
• maximum		35 mm²			
connectable conductor cross-section stranded					
• minimum		0.75 mm ²			
• maximum		35 mm²			
connectable conductor cross-section finely strand end processing	ed with core				
• minimum		0.75 mm²			
• maximum		25 mm²			
AWG number as coded connectable conductor cr	oss 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 ass	embly system		
mounting position		any	y - y		
net weight		635 g			
Environmental conditions		J			
influence of the surrounding temperature		max 95%	to 55°C max 55%	to 70°C, max, 35% to 7	5°C
standard		max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C IEC / EN 60898-1, IEC / EN 60947-2 / UL1077			
vibration resistance according to IEC 60068-2-6			5 to 25Hz; 50m/s ² at		
ambient temperature during operation		± min at	0 10 20112, 0011/5 al		
minimum		-40 °C			
• maximum		-40°C 70 °C			
		10 0			
ambient temperature during storage		-40 °C			
• minimum		-40 °C 75 °C			
maximum	poording to IEC	75°C			
number of test cycles for environmental testing ac 60068-2-30		0			
General Product Approval					
Confirmation			<u>Miscellaneous</u>	EHC	<u>Miscellaneous</u>
Declaration of Conformity	Test Certificate	s		Marine / Shipping	

C E EG-Konf.	UK CA	Special Test Certific- ate	<u>Miscellaneous</u>	ABS	Hoyd's Register uis
other		Railway		Environment	
<u>Miscellaneous</u>	Confirmation	Vibration and Shock	<u>Confirmation</u>	Environmental Con- firmations	
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