## SIEMENS

## Data sheet

## 5SY4413-6



Miniature circuit breaker 400 V 10kA, 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	
degree of pollution	3
Voltage	
type of voltage of the operating voltage	AC
insulation voltage (Ui)	
<ul> <li>with single-phase operation at AC rated value</li> </ul>	440 V
<ul> <li>with multi-phase operation at AC rated value</li> </ul>	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	
<ul> <li>at DC according to IEC 60947-2 rated value</li> </ul>	15 kA
<ul> <li>according to EN 60898 rated value</li> </ul>	10 kA
<ul> <li>according to IEC 60947-2 rated value</li> </ul>	20 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	
<ul> <li>combined terminal top</li> </ul>	Yes
<ul> <li>combined terminal bottom</li> </ul>	Yes
<ul> <li>neutral conductor switching</li> </ul>	No
product feature	

<ul> <li>properties for main switches in accordance with EN 60204-1</li> </ul>	Yes				
halogen-free	Yes				
-					
• sealable	Yes				
silicon-free	Yes				
product extension installable supplementary devices	Yes				
Short circuit					
short-circuit current breaking capacity (Icn)					
<ul> <li>at AC according to UL 1077 and CSA C22.2 No.235</li> </ul>	5 kA				
Connections					
connectable conductor cross-section solid					
• minimum	0.75 mm²				
• maximum	35 mm²				
connectable conductor cross-section stranded					
• minimum	0.75 mm²				
• maximum	35 mm²				
connectable conductor cross-section finely stranded with core end processing					
• minimum	0.75 mm²				
• maximum	25 mm <sup>2</sup>				
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	650 g				
Environmental conditions					
influence of the surrounding temperature	max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C	<u>}</u>			
standard	IEC / EN 60898-1, IEC / EN 60947-2 / UL1077	•			
vibration resistance according to IEC 60068-2-6	±1mm at 5 to 25Hz; 50m/s <sup>2</sup> at 25 to 150Hz				
ambient temperature during operation					
• minimum	-40 °C				
• maximum	70 °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					
	•	Missellenseus			
		Miscellaneous			
$\sim$ $\vee$					
CCC IMQ					
CCC IMQ					
CCC IMQ General Product Approval EMC	UR UE VDE	Test Certificates			

EHC	<u>Miscellaneous</u>	RCM	CE EG-Konf.	UK CA	<u>Miscellaneous</u>		
Test Certificates	Marine / Shipping						
<u>Special Test Certific-</u> <u>ate</u>	ABS	BUREAU VERITAS	Lloyd's Register	RINA	DINV-GL EMMOLEDIEM		
other		Railway		Environment			
<u>Miscellaneous</u>	<u>Confirmation</u>	<u>Confirmation</u>	<u>Vibration and Shock</u>	Environmental Con- firmations			
Further information         Siemens has decided to exit the Russian market (see here).         https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business         Siemens is working on the renewal of the current EAC certificates.         Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).         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							

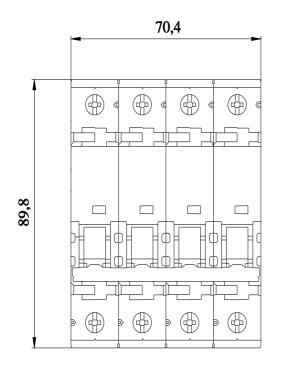
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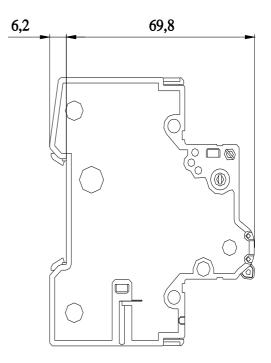
http://www.siemens.com/specifications

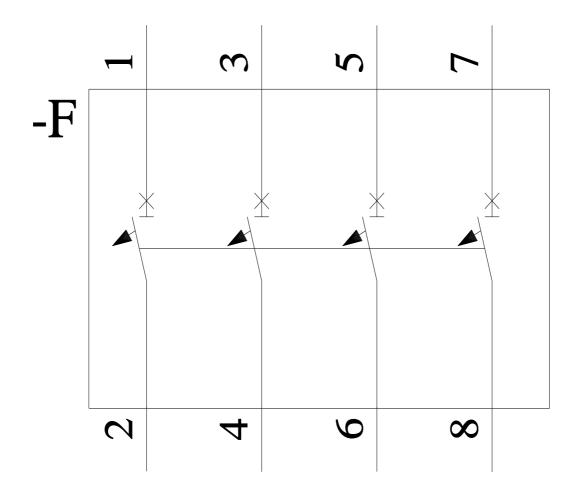
CAx-Online-Generator http://www.siemens.com/cax Tender specifications

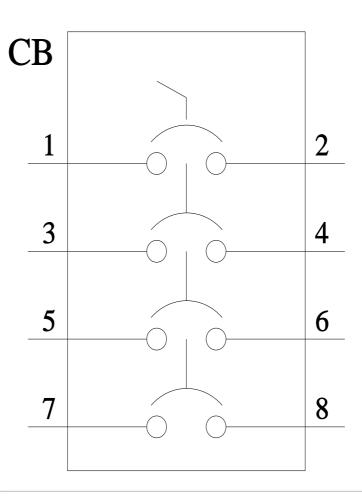
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SY4413-6 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/5SY4413-6

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=5SY4413-6









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