## SIEMENS

## Data sheet

## 5SY4613-5

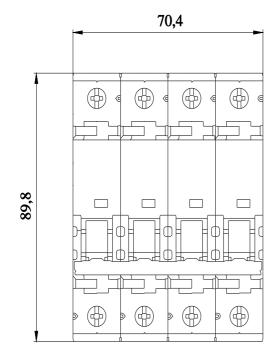


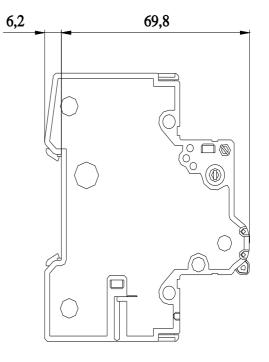
Miniature circuit breaker 400 V 10kA, 3+N-pole, A, 13 A, D=70 mm

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	4
design of pole	3P+N
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)	
<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	
<ul> <li>at AC rated value</li> </ul>	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
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	
<ul> <li>combined terminal top</li> </ul>	Yes
<ul> <li>combined terminal bottom</li> </ul>	Yes
neutral conductor switching	Yes
product feature	
<ul> <li>properties for main switches in accordance with EN</li> </ul>	Yes

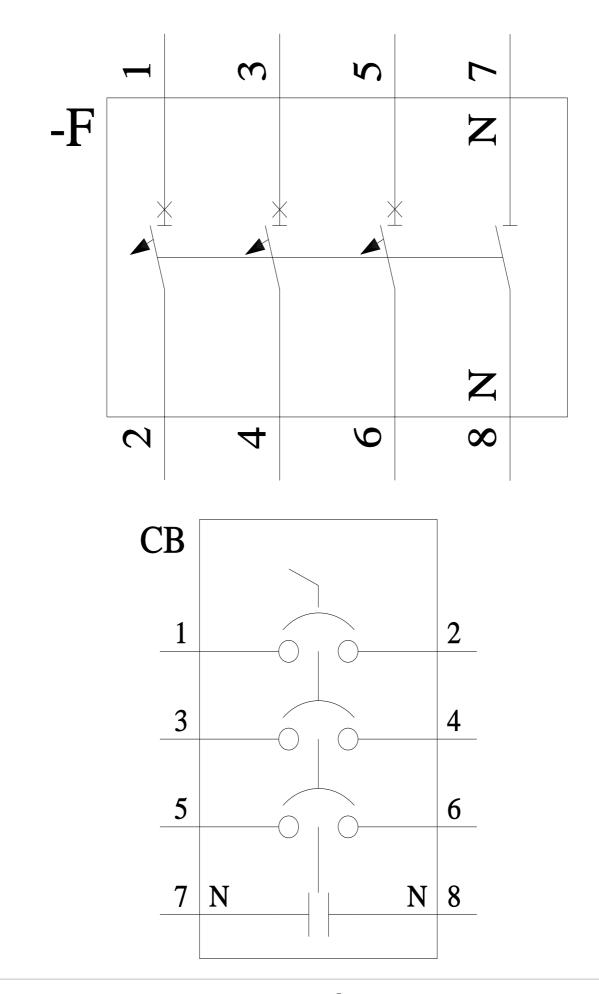
60204-1					
<ul> <li>halogen-free</li> </ul>		Yes			
sealable		Yes			
silicon-free		Yes			
product extension installable supplementary device	ces	Yes			
Short circuit					
short-circuit current breaking capacity (Icn)					
<ul> <li>at AC according to UL 1077 and CSA C22.</li> </ul>	2 No.235	5 kA			
Connections					
connectable conductor cross-section solid					
• minimum		0.75 mm <sup>2</sup>			
• maximum		35 mm²			
connectable conductor cross-section stranded					
• minimum		0.75 mm <sup>2</sup>			
• 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	· · · · · · · · · · · · · · · · · · ·		
net weight		633 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			
vibration resistance according to IEC 60068-2-6		IEC / EN 60898-1, IEC / EN 60947-2 / UL1077 ±1mm at 5 to 25Hz; 50m/s <sup>2</sup> at 25 to 150Hz			
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	

CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	<u>Miscellaneous</u>	ABS	Lloyd's Register urs
other		Railway		Environment	
<u>Confirmation</u>	<u>Miscellaneous</u>	<u>Confirmation</u>	Vibration and Shock	Environmental Con- firmations	
https://press.siemens.cc Siemens is working o Please contact your loc EAC relevant market (o Information on the pa https://support.industry. Information- and Dow http://www.siemens.cor Industry Mall (Online of https://mall.industry.sie Service&Support (Mau https://support.industry. Image database (prod	n the renewal of the cur al Siemens office on the s ther than the sanctioned ckaging siemens.com/cs/ww/en/w nloadcenter (Catalogs n/lowvoltage/catalogs ordering system) mens.com/mall/en/en/Cat nuals, Certificates, Char siemens.com/cs/ww/en/p uct images, 2D dimensi siemens.com/bilddb/cax_ r n/cax	e/siemens-wind-down-rus rent EAC certificates. status of validity of the EA EAEU member states Rus iew/109813875 Brochures,) talog/product?mlfb=5SY46 racteristics, FAQs,)	C certification if you inten- sia or Belarus). <u>313-5</u> , <b>device circuit diagram</b>	d to import or offer to supply	these products to an





6/8/2023



last modified:

2/7/2023 🖸