## SIEMENS

## Data sheet

## 5SY4513-7



Miniature circuit breaker 230 V 10kA, 1+N-pole, C, 13 A, D=70 mm

Model					
product brand name	SENTRON				
product designation	Miniature circuit breaker				
General technical data					
number of poles	2				
design of pole	1P+N				
tripping characteristic class	C				
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)					
<ul> <li>with single-phase operation at AC rated value</li> </ul>	250 V				
supply voltage with single-phase operation at AC rated value	230 V				
operational current					
<ul> <li>at 40 °C rated value</li> </ul>	12.38 A				
<ul> <li>at 50 °C rated value</li> </ul>	11.73 A				
<ul> <li>at 55 °C rated value</li> </ul>	11.38 A				
<ul> <li>at 60 °C rated value</li> </ul>	11.02 A				
<ul> <li>at AC rated value</li> </ul>	13 A				
Supply voltage					
supply voltage					
<ul> <li>at AC rated value</li> </ul>	230 V				
<ul> <li>at DC rated value</li> </ul>	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				
Breaking 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	1.4 W				
Product details					
product component					

combined terminal top	Yes
combined terminal top     combined terminal bottom	Yes
neutral conductor switching	Yes
<ul> <li>product feature</li> <li>properties for main switches in accordance with EN 60204-1</li> </ul>	Yes
halogen-free	Yes
• sealable	Yes
sectable     silicon-free	Yes
product extension installable supplementary devices	Yes
Product extension installable supplementary devices	
	0
set values setting current (li) for I-tripping	8
reference value setting current (li) for I-tripping	x In
Short circuit short-circuit current breaking capacity (lcn)	
<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 mm <sup>2</sup>
• maximum	35 mm <sup>2</sup>
connectable conductor cross-section stranded	
minimum	0.75 mm²
• maximum	35 mm <sup>2</sup>
connectable conductor cross-section finely stranded with core end processing	55 mm
• 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	36 mm
depth	76 mm
installation depth	70 mm
number of modular width units	2
fastening method	Quick assembly system
mounting position	any
net weight	305 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	-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
Approvals Certificates	
General Product Approval	
Ceneral Floudet Approval	

CE EG-Konf.	UK CA		<u>Confirmation</u>	<b>E</b>	<b>SAN</b> ® UR
General Product App	proval		EMV	Test Certificates	
DE	<u>Miscellaneous</u>	EHC	RCM	<u>Special Test Certific-</u> <u>ate</u>	<u>Miscellaneous</u>
Marine / Shipping					other
ABS	BUREAU VERITAS		Lloyd's Register urs	RINA	<u>Confirmation</u>
other	Railway	Environment			
Miscellaneous	<b>Confirmation</b>	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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SY4513-7

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/5SY4513-7

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

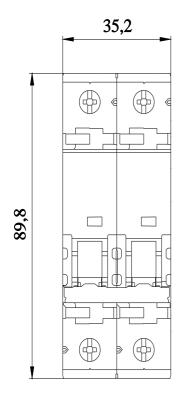
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=5SY4513-7

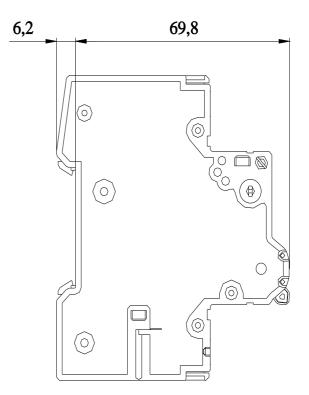
CAx-Online-Generator

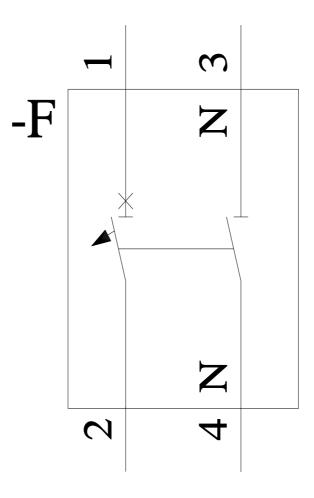
http://www.siemens.com/cax

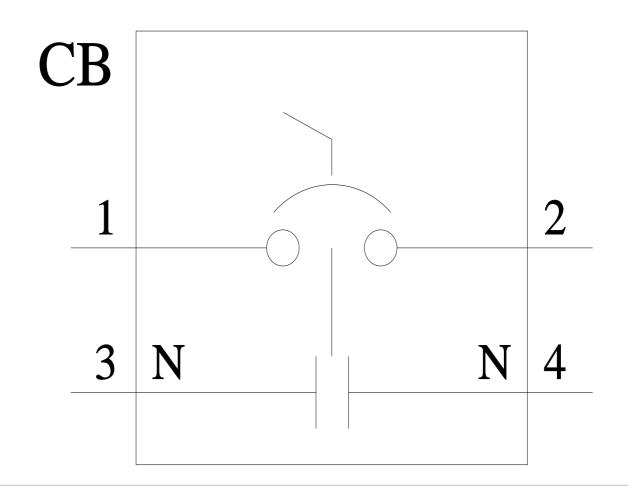
**Tender specifications** 

http://www.siemens.com/specifications









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