## **SIEMENS**

Data sheet 5SY4104-6



Miniature circuit breaker 230/400 V 10kA, 1-pole, B, 4A, D=70 mm

product brand name product designation  General technical data  number of poles  SENTRON Miniature circuit breaker  1			
General technical data number of poles 1			
number of poles 1			
	General technical data		
design of pole 1P			
tripping characteristic class B			
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			
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 35 kA			
energy limitation class 3			
Dissipation			
power loss [W] for rated value of the current at AC in hot operating state per pole			
Current			
operational current			
• at 35 °C rated value 4 A			
• at 40 °C rated value 3.76 A			
• at 45 °C rated value 3.63 A			
• at 50 °C rated value 3.5 A			
• at 55 °C rated value 3.36 A			

at CO °C rated	2.00 A	
at 60 °C rated value	3.22 A	
at AC rated value  suitability for operation	4 A Machanical analogoring / industry	
suitability for operation	Mechanical engineering / industry	
Product details		
product component	Voc	
<ul><li>combined terminal top</li><li>combined terminal bottom</li></ul>	Yes Yes	
neutral conductor switching	No	
product feature	INO	
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 mm <sup>2</sup>	
• maximum	35 mm <sup>2</sup>	
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 mm <sup>2</sup>	
• maximum	25 mm²	
AWG number as coded connectable conductor cross section		
• minimum	18	
• maximum	4	
tightening torque [lbf·in] with screw-type terminals	00 lbf in	
• minimum	22 lbf·in	
<ul> <li>maximum</li> <li>tightening torque with screw-type terminals</li> </ul>	31 lbf·in	
minimum	2.5 N·m	
• maximum	3.5 N·m	
position of power supply cord	Any	
Mechanical Design	7,	
	90 mm	
height width	18 mm	
depth	76 mm	
installation depth	70 mm	
number of modular width units	1	
fastening method	Quick assembly system	
mounting position	any	
net weight	149 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	
Certificates		
reference code		

- according to EN 61346-2
- according to IEC 81346-2

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## **General Product Approval**



Confirmation





**Miscellaneous** 



General Product Approval

**EMC** 

**Declaration of Conformity** 

**Test Certificates** 

Miscellaneous







Special Test Certificate

Miscellaneous

Marine / Shipping









Environmental Confirmations

other

Miscellaneous

Railway

Confirmation Vibration and Shock

## Further information

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=5SY4104-6

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

https://support.industry.siemens.com/cs/ww/en/ps/5SY4104-6

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

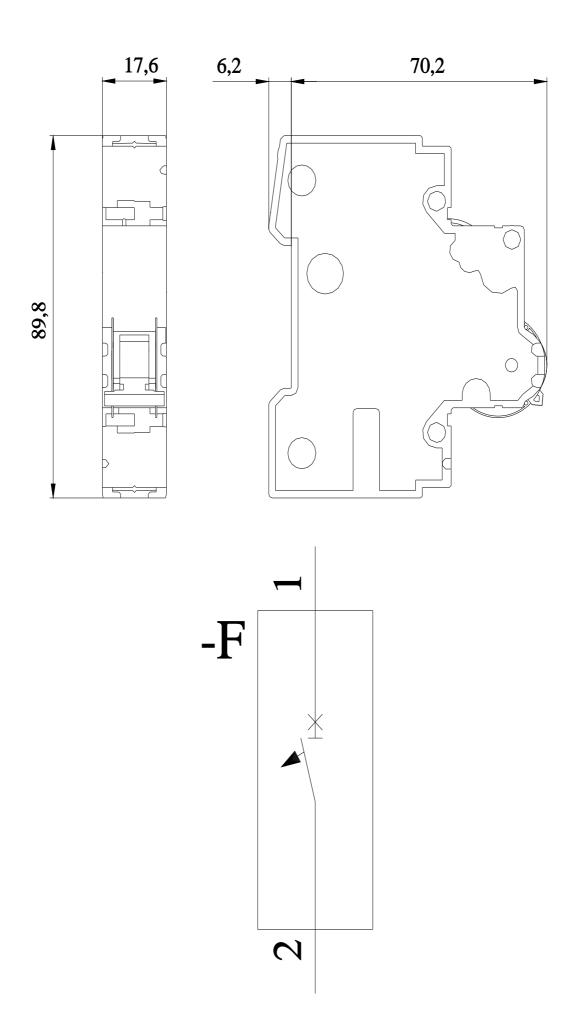
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=5SY4104-6

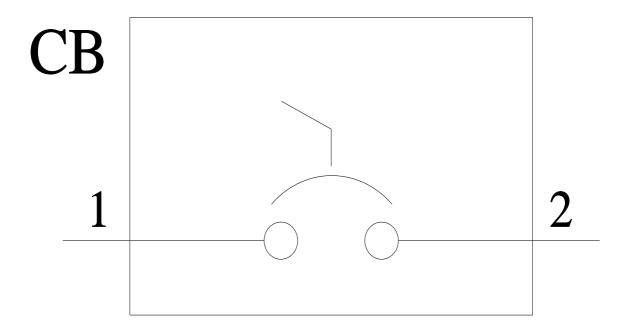
**CAx-Online-Generator** 

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





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