SIEMENS

Data sheet 5SY4113-6



Miniature circuit breaker 230/400 V 10kA, 1-pole, B, 13 A, D=70 mm

product brand name product designation Miniature circuit breaker General technical data number of poles design of pole tripping characteristic class B Transportion and life (constition pulled) trained.		
General technical data number of poles 1 design of pole 1P tripping characteristic class B		
number of poles 1 design of pole 1P tripping characteristic class B		
design of pole 1P 1P tripping characteristic class B		
tripping characteristic class B		
machanical coming life (encreting system) typical		
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 20 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 13 A		
• at 40 °C rated value 12.38 A		
• at 45 °C rated value 12.05 A		
• at 50 °C rated value 11.73 A		
• at 55 °C rated value 11.38 A		

100.00	44.00 A
• at 60 °C rated value	11.02 A
at AC rated value	13 A
suitability for operation	Mechanical engineering / industry
Product details	
product component	
combined terminal top	Yes
combined terminal bottom	Yes
neutral conductor switching	No
product feature	V
 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 mm²
• maximum	35 mm ²
connectable conductor cross-section stranded	
• minimum	0.75 mm²
• maximum	35 mm ²
connectable conductor cross-section finely stranded with core end processing	
minimum	0.75 mm²
• maximum	25 mm ²
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	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	161 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	6
to IEC 60068-2-30	
General Product Approval	









Miscellaneous

General Product Approval

EMC

Declaration of Conformity

Test Certificates



Miscellaneous







Special Test Certificate

Test Certificates

Marine / Shipping

Miscellaneous











other

Railway

Environmental Confirmations

Miscellaneous

Vibration and Shock

Confirmation

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=5SY4113-6

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

https://support.industry.siemens.com/cs/ww/en/ps/5SY4113-6

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

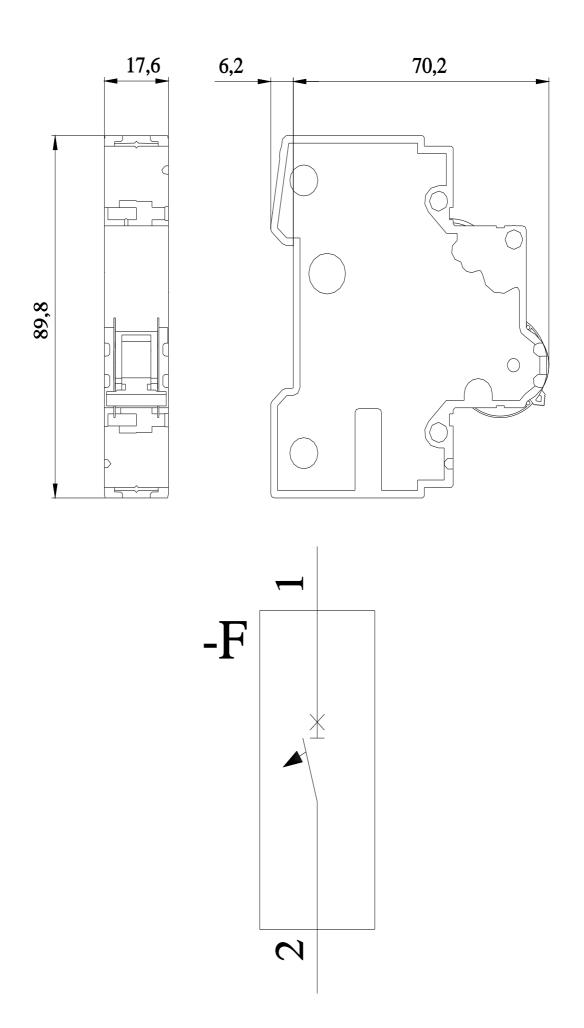
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4113-6

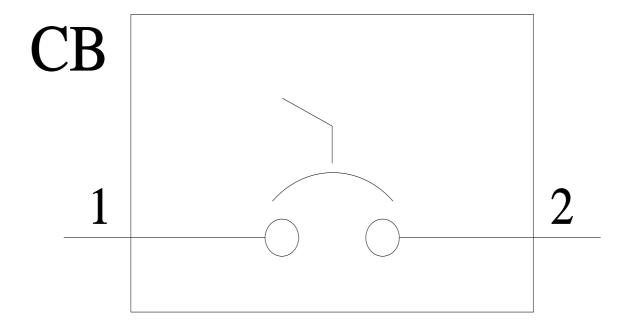
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





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