SIEMENS

Data sheet 5SY5113-6



Circuit breaker Universal current 220 V DC 230/400 V AC 10kA, 1-pole, B, 13A

Model			
product brand name	SENTRON		
product designation	Miniature circuit breaker		
General technical data			
number of poles	1		
design of pole	1P		
tripping characteristic class	В		
mechanical service life (operating cycles) typical	10 000		
overvoltage category	III		
degree of pollution	3		
Voltage			
type of voltage of the operating voltage	AC/DC		
insulation voltage (Ui)			
at DC rated value	250 V		
 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		
at DC rated value	220 V		
value range of the supply voltage frequency	50/60 Hz		
operating voltage at DC rated value maximum	250 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		
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	universal current		
Product details			
product component			
 combined terminal top 	Yes		
 combined terminal bottom 	Yes		
neutral conductor switching	No		
product feature			

 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	163
short-circuit current breaking capacity (Icn)	40.1.4
at DC according to EN 60898-2	10 kA
Connections	
connectable conductor cross-section solid	
• minimum	0.75 mm²
• maximum	35 mm ²
connectable conductor cross-section stranded	
• minimum	0.75 mm ²
maximum	35 mm²
connectable conductor cross-section finely stranded with core end processing	
• minimum	0.75 mm ²
• maximum	25 mm²
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	AC as required, observe DC polarity
Mechanical Design	7.0 do roquirou, obcorro 2 o polarity
height	90 mm
width	18 mm
	76 mm
depth	
installation depth	70 mm
number of modular width units	1
fastening method	Quick assembly system
mounting position	any
net weight	168 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 60898-2, 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
General Product Approval	

Confirmation







Miscellaneous



General Product Approval

Declaration of Conformity

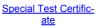
Test Certificates

Marine / Shipping





<u>Miscellaneous</u>





other		Railway		Dangerous Good	Environment
<u>Miscellaneous</u>	Confirmation	Vibration and Shock	Confirmation	Transport Information	Environmental Con-

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=5SY5113-6

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

https://support.industry.siemens.com/cs/ww/en/ps/5SY5113-6

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

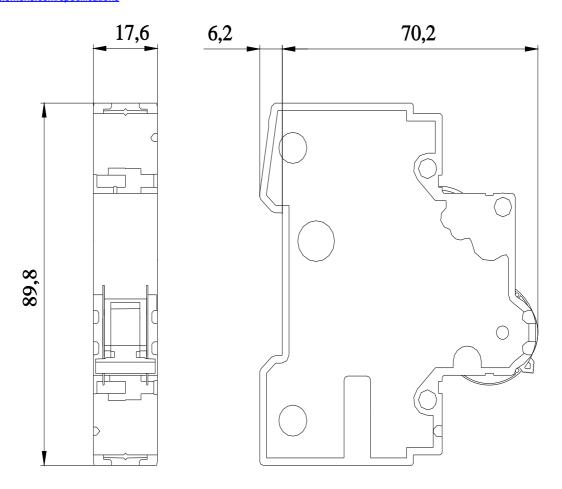
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY5113-6

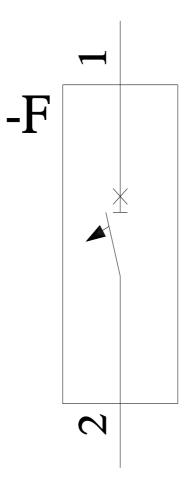
CAx-Online-Generator

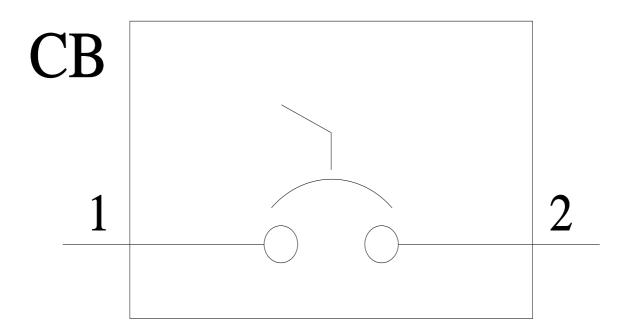
http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







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