SIEMENS

Data sheet 5SY5113-7



Circuit breaker Universal current 220 V DC 230/400 V AC 10kA, 1-pole, C, 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	C
mechanical service life (switching 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	1.4 W
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

-t-FF 90t-d-v-lv-	44.00 A
• at 55 °C rated value	11.38 A
• at 60 °C rated value	11.02 A
 at AC rated value suitability for operation 	13 A universal current
Product details	universal current
product component	Voc
 combined terminal top combined terminal bottom 	Yes Yes
neutral conductor switching	No
product feature	INO
product readure properties for main switches in accordance with EN	Yes
60204-1	166
 halogen-free 	Yes
• sealable	Yes
• silicon-free	Yes
product extension installable supplementary devices	Yes
Short circuit	
breaking capacity short-circuit current (Icn)	
 at DC according to EN 60898-2 	10 kA
Connections	
connectable conductor cross-section solid	
• minimum	0.75 mm²
maximum	35 mm²
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 mm²
• 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	
height	90 mm
width	18 mm
depth	76 mm
installation depth	70 mm
number of modular width units	1 Oviete accombly avertage
fastening method	Quick assembly system
mounting position	any
net weight	169 g
Environmental conditions	may 050/ to 55°C may 550/ to 70°C may 250/ to 75°C
influence of the surrounding temperature 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 60898-2, UL1077 ±1mm at 5 to 25Hz; 50m/s² at 25 to 150Hz
ambient temperature during operation	THIRIT ALD TO ZOLIZ, DOLLAS ALZO TO TOUTZ
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	
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

Declaration of Conformity

Test Certificates

Marine / Shipping

Miscellaneous





Special Test Certific-<u>ate</u>

Miscellaneous



other

Railway

Dangerous Good

Miscellaneous

Environmental Confirmations

Confirmation

Vibration and Shock

Transport Informa-<u>tion</u>

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=5SY5113-7

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

https://support.industry.siemens.com/cs/ww/en/ps/5SY5113-7

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

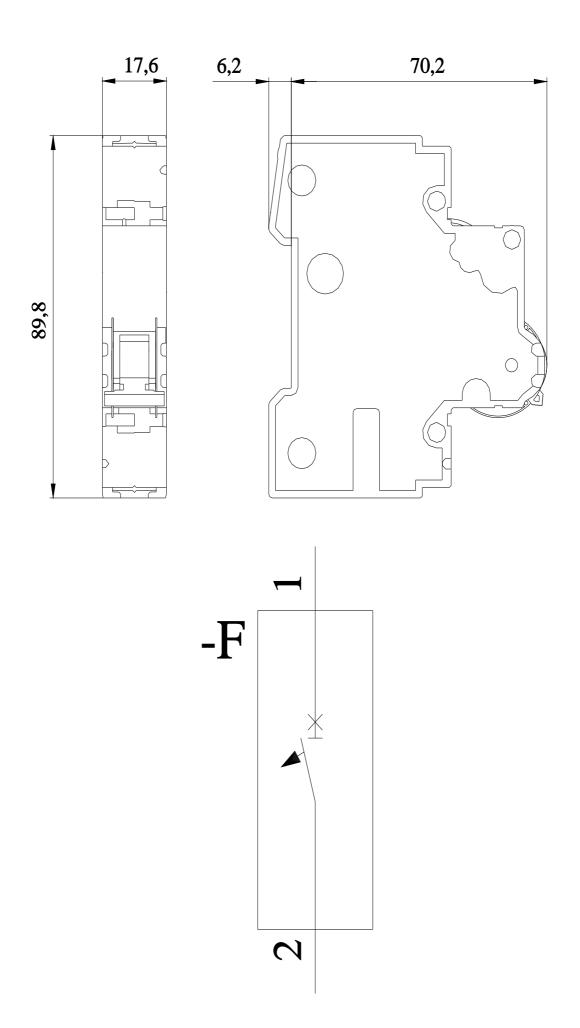
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY5113-7

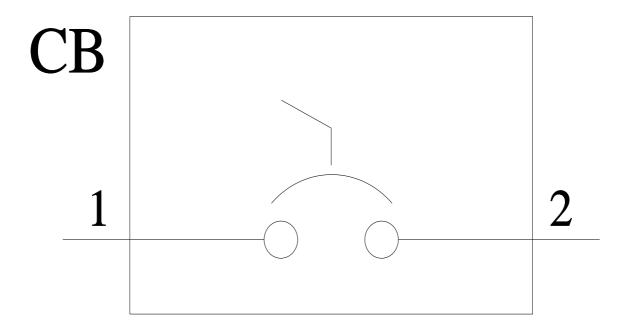
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





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