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 (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	
operational current		
 at 40 °C rated value 	12.38 A	
 at 50 °C rated value 	11.73 A	
 at 55 °C rated value 	11.38 A	
 at 60 °C rated value 	11.02 A	
 at AC rated value 	13 A	
Supply voltage		
supply voltage		
• at AC	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	
Breaking 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	

suitability for operation	Infrastructure / Industry / Mobility
Product details	
product feature touch protection	Yes
product component	
combined terminal top	Yes
combined terminal top combined terminal bottom	Yes
	No
neutral conductor switching	INU
product featureproperties 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 DC according to EN 60898-2	10 kA
Connections	
connectable conductor cross-section solid	
minimum	0.75 mm ²
minimum maximum	0.75 mm ²
maximum connectable conductor cross-section stranded	OJ IIIII
	0.75 mm²
• minimum	0.75 mm²
maximum connectable conductor cross-section finely stranded with	35 mm ²
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	
height	90 mm
width	18 mm
depth	76 mm
installation depth	70 mm
number of modular width units	1
fastening method	DIN rail
mounting position	any
net weight	168 g
Environmental conditions	
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	2 mm at 0 to 20112, 00mm at 20 to 100112
	40 °C
• minimum	-40 °C
• maximum	70 °C
ambient temperature during storage	40.00
• minimum	-40 °C
• maximum	75 °C
number of test cycles for environmental testing according to IEC 60068-2-30	6
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	13.3 kg

global warming potential [CO2 eq] during manufacturing	0.73 kg
global warming potential [CO2 eq] during operation	12.7 kg
global warming potential [CO2 eq] after end of life	-0.069 kg
Further information	

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=5SY5113-7

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/5SY5113-7

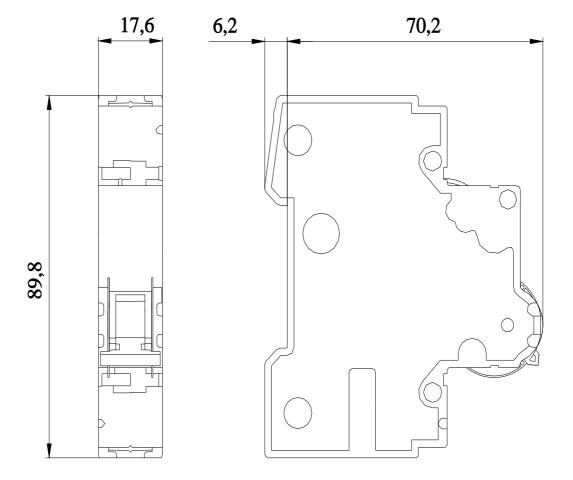
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

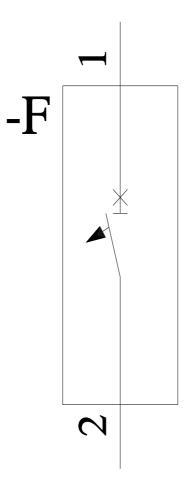
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY5113-7

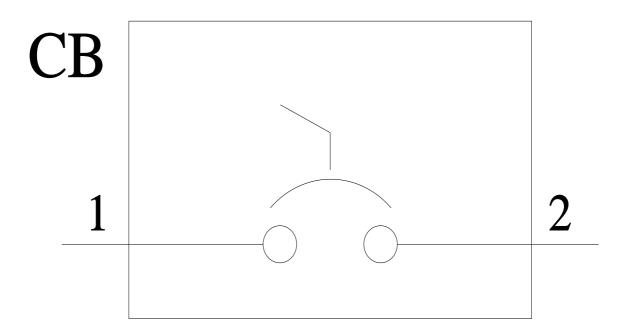
CAx-Online-Generator

Tender specifications

http://www.siemens.com/specifications







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