SIEMENS

Data sheet 5SY6110-7



Miniature circuit breaker 230/400 V 6kA, 1-pole, C, 10A, D=70 mm

product brand name product designation Miniature circuit breaker General technical data number of poles	Model	
Concrat technical data Company	product brand name	SENTRON
number of poles design of pole thipping characteristic class mechanical service life (operating cycles) typical overvoltage category life (operating voltage) degree of pollution Voltage type of voltage of the operating voltage insulation voltage (UII) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value supply voltage with single-phase operation at AC rated value value value with single-phase operation at AC rated value value supply voltage supply voltage • at AC rated value • at AC rated value • at DC rated value • at DC rated value value range of the supply voltage frequency operating voltage at DC rated value maximum 72 V Protection class protection class IP Switching capacity switching capacity current • at DC according to IEC 60947-2 rated value • according to IEC 60947-2 rat	product designation	Miniature circuit breaker
design of pole tripping characteristic class mechanical service life (operating cycles) typical overvoltage category degree of pollution Voltage type of voltage of the operating voltage insulation voltage (UI) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value supply voltage with single-phase operation at AC rated value supply voltage with single-phase operation at AC rated value supply voltage with single-phase operation at AC rated value Supply voltage • at AC rated value • at DC rated value • at DC rated value value range of the supply voltage frequency operating voltage at DC rated value maximum 72 V Protection class IP protection class IP switching capacity switching capacity current • at DC according to IEC 60947-2 rated value • according to TEC 60947-2 rated value • according to TEC 60947-2 rated value • ACCORDINATION OF TAREN OF	General technical data	
tripping characteristic class mechanical service life (operating cycles) typical overvoltage category III degree of pollution Voltage type of voltage of the operating voltage insulation voltage (Ui) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value supply voltage with single-phase operation at AC rated value supply voltage with single-phase operation at AC rated value supply voltage with single-phase operation at AC rated value supply voltage • at AC rated value • at DC rated value • at DC rated value • at DC rated value value range of the supply voltage frequency operating voltage at DC rated value maximum 72 V Protoction class protection class IP Switching capacity current • at DC according to IEC 60947-2 rated value • according to I	number of poles	1
mechanical service life (operating cycles) typical overvoltage category degree of pollution 3 Voltage Iype of voltage of the operating voltage insulation voltage (Ui) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value supply voltage with single-phase operation at AC rated value supply voltage with single-phase operation at AC rated value supply voltage with single-phase operation at AC rated value supply voltage supply voltage supply voltage supply voltage • at AC rated value • at DC rated value • at DC rated value • at DC rated value maximum 72 V Protection class protection class IP Switching capacity switching capacity current • at DC according to IEC 60947-2 rated value • be according to IEC 60947-2 rated value • be according to IEC 60947-2 rated value • according to IEC 60947-2 rated value • according to IEC 60947-2 rated value • be according to IEC 60947-2 rated value • according	design of pole	1P
overvoltage category degree of pollution Voltage type of voltage of the operating voltage insulation voltage (Ui) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value supply voltage with single-phase operation at AC rated value supply voltage with single-phase operation at AC rated value supply voltage supply voltage • at AC rated value • at DC rated value maximum 72 V Protection class protection class IP Switching capacity switching capacity current • at DC according to IEC 60947-2 rated value • accordi	tripping characteristic class	C
Voltage type of voltage of the operating voltage insulation voltage (Ui) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value supply voltage with single-phase operation at AC rated value value Supply voltage supply voltage supply voltage supply voltage • at AC rated value • at DC rated value • at DC rated value • at DC rated value • at DC rated value **Oo V value range of the supply voltage frequency operating voltage at DC rated value maximum 72 V Protection class IP Switching capacity switching capacity current • at DC according to IEC 60947-2 rated value • ACCORDING TACK VALU	mechanical service life (operating cycles) typical	10 000
type of voltage of the operating voltage type of voltage of the operating voltage insulation voltage (Ui) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value supply voltage with single-phase operation at AC rated value Supply voltage • at AC rated value • at DC rated value • at DC rated value • at DC rated value • at DC rated value • at DC rated value • at DC rated value • at DC rated value • at DC rated value • at DC rated value maximum 72 V Protection class protection class IP Switching capacity switching capacity switching capacity current • at DC according to IEC 60947-2 rated value • ACCORDING TO TATE ACCORDING TO TA		III
type of voltage of the operating voltage insulation voltage (UI) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value supply voltage with single-phase operation at AC rated value supply voltage with single-phase operation at AC rated value Supply voltage supply voltage • at AC rated value • at DC rated value • at DC rated value value range of the supply voltage frequency 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 • at CC according to IEC 60947-2 rated value • a	degree of pollution	3
insulation voltage (Ui) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value supply voltage with single-phase operation at AC rated value Supply voltage supply voltage supply voltage • at AC rated value • at DC rated value • at DC rated value value range of the supply voltage frequency operating voltage at DC rated value maximum 72 V Protection class protection class IP Switching capacity switching capacity current • at DC according to IEC 60947-2 rated value • 15 kA • according to IEC 60947-2 rated value • 15 kA • according to IEC 60947-2 rated value • 15 kA • according to IEC 60947-2 rated value • 15 kA • according to IEC 60947-2 rated value • 15 kA • according to IEC 60947-2 rated value • 15 kA • according to IEC 60947-2 rated value • 15 kA • according to IEC 60947-2 rated value • 15 kA • according to IEC 60947-2 rated value • 15 kA • according to IEC 60947-2 rated value • 15 kA • according to IEC 60947-2 rated value • 15 kA • according to IEC 60947-2 rated value • 15 kA • according to IEC 60947-2 rated value • 16 kA • 17 kM • according to IEC 60947-2 rated value • 20 kM •	Voltage	
with single-phase operation at AC rated value with multi-phase operation at AC rated value supply voltage with single-phase operation at AC rated value supply voltage supply voltage supply voltage at AC rated value at Drated value value range of the supply voltage frequency operating voltage at DC rated value maximum 72 V Protection class protection class IP Switching capacity switching capacity current at DC according to IEC 60947-2 rated value according to IEC 60947-2 rated v	type of voltage of the operating voltage	AC
with multi-phase operation at AC rated value supply voltage with single-phase operation at AC rated value Supply voltage supply voltage • at AC rated value	insulation voltage (Ui)	
supply voltage with single-phase operation at AC rated value Supply voltage supply voltage • at AC rated value	 with single-phase operation at AC rated value 	440 V
supply voltage supply voltage • at AC rated value • at DC rated value value range of the supply voltage frequency 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 • according to EN 60898 rated value • according to IEC 60947-2 rated value for kA energy limitation class Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole suitability for operation Product details product component • combined terminal top • combined terminal bottom Yes		440 V
supply voltage • at AC rated value • at DC rated value value range of the supply voltage frequency operating voltage at DC rated value maximum 72 V Protection class protection class IP Switching capacity switching capacity current • at DC according to IEC 60947-2 rated value • according to EN 60898 rated value • according to IEC 60947-2 rated value • according to IEC 60947-2 rated value 15 kA energy limitation class 3 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole suitability for operation Mechanical engineering / industry Product details product component • combined terminal top • combined terminal bottom Yes		230 V
at AC rated value at DC rated value buller range of the supply voltage frequency operating voltage at DC rated value maximum 72 V Protection class protection class IP Switching capacity switching capacity current at CD according to IEC 60947-2 rated value according to IEC 60947-1 rated value according to IEC 60947-2 rated value according to IEC 60947-1 rated value according to IEC 60947-2 rated value according	Supply voltage	
at DC rated value value range of the supply voltage frequency 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 energy limitation class 3 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole suitability for operation Mechanical engineering / industry Product details product component combined terminal top Yes combined terminal bottom Yes	supply voltage	
value range of the supply voltage frequency operating voltage at DC rated value maximum Protection class protection class IP IP20, with connected conductors Switching capacity switching capacity current • at DC according to IEC 60947-2 rated value • according to EN 60898 rated value • according to IEC 60947-2 rated value • according to IEC 60947-2 rated value • according to IEC 60947-2 rated value • according to IEC 60947-2 rated value • according to IEC 60947-2 rated value • according to IEC 60947-2 rated value • according to IEC 60947-2 rated value • 15 kA energy limitation class 3 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole suitability for operation Mechanical engineering / industry Product details product component • combined terminal top • combined terminal bottom Yes	 at AC rated value 	400 V
operating voltage at DC rated value maximum Protection class protection class IP IP20, with connected conductors Switching capacity switching capacity current • at DC according to IEC 60947-2 rated value • according to EN 60898 rated value • according to IEC 60947-2 rated value • according to IEC 60947-2 rated value • according to IEC 60947-2 rated value • according to IEC 60947-2 rated value • according to IEC 60947-2 rated value 15 kA energy limitation class 3 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole suitability for operation Product details product component • combined terminal top • combined terminal bottom Yes Yes		60 V
Protection class protection class IP IP20, with connected conductors Switching capacity switching capacity current • at DC according to IEC 60947-2 rated value • according to EN 60898 rated value • according to IEC 60947-2 rated value • according to IEC 60947-2 rated value 15 kA • according to IEC 60947-2 rated value 15 kA energy limitation class 3 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole suitability for operation Mechanical engineering / industry Product details product component • combined terminal top • combined terminal bottom Yes	value range of the supply voltage frequency	
protection class IP IP20, with connected conductors Switching capacity switching capacity current • at DC according to IEC 60947-2 rated value • according to EN 60898 rated value • according to IEC 60947-2 rated value • according to IEC 60947-2 rated value 15 kA energy limitation class 3 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole suitability for operation Mechanical engineering / industry Product details product component • combined terminal top • combined terminal bottom Yes	operating voltage at DC rated value maximum	72 V
Switching capacity switching capacity current • at DC according to IEC 60947-2 rated value • according to EN 60898 rated value • according to IEC 60947-2 rated value 15 kA • according to IEC 60947-2 rated value • according to IEC 60947-2 rated value 15 kA • according to IEC 60947-2 rated value • according to IEC 60947-2 rated value 15 kA • according to IEC 60947-2 rated value • according to IEC 60	Protection class	
switching capacity current • at DC according to IEC 60947-2 rated value • according to EN 60898 rated value • according to IEC 60947-2 rated value • according to IEC 60947-2 rated value 15 kA energy limitation class 3 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole suitability for operation Product details product component • combined terminal top • combined terminal bottom 15 kA 15 kA 16 kA 17 kA 18 kA 19 kA 19 kA 19 kA 19 kA 10 kA 11 kA 11 kA 12 kA 13 kA 14 kA 15 kA 15 kA 16 kA 16 kA 16 kA 17 kA 18 kA 1	protection class IP	IP20, with connected conductors
 at DC according to IEC 60947-2 rated value according to EN 60898 rated value according to IEC 60947-2 rated value according to IEC 60947-2 rated value to KA energy limitation class Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole suitability for operation Mechanical engineering / industry Product details product component combined terminal top combined terminal bottom Yes 	Switching capacity	
 according to EN 60898 rated value according to IEC 60947-2 rated value 15 kA energy limitation class Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole suitability for operation Mechanical engineering / industry Product details product component combined terminal top combined terminal bottom Yes 	0 , ,	
according to IEC 60947-2 rated value energy limitation class Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole suitability for operation Product details product component ocmbined terminal top combined terminal bottom 15 kA 1.1 W Mechanical engineering / industry Yes		15 kA
energy limitation class Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole suitability for operation Product details product component • combined terminal top • combined terminal bottom 3 Mechanical engineering / industry Yes		6 kA
Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole suitability for operation Product details product component • combined terminal top • combined terminal bottom • combined terminal bottom • combined terminal bottom		
power loss [W] for rated value of the current at AC in hot operating state per pole suitability for operation Product details product component • combined terminal top • combined terminal bottom 1.1 W Mechanical engineering / industry Yes		3
operating state per pole suitability for operation Mechanical engineering / industry Product details product component • combined terminal top • combined terminal bottom Yes		
Product details product component • combined terminal top • combined terminal bottom Yes		1.1 W
product component • combined terminal top • combined terminal bottom Yes Yes	suitability for operation	Mechanical engineering / industry
 combined terminal top combined terminal bottom Yes 	Product details	
• combined terminal bottom Yes	product component	
	 combined terminal top 	Yes
• neutral conductor switching No	 combined terminal bottom 	Yes
	 neutral conductor switching 	No

product feature • properties for main switches in accordance with EN Yes 60204-1 Yes • halogen-free • 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 connectable conductor cross-section solid 0.75 mm² • minimum maximum 35 mm² connectable conductor cross-section stranded 0.75 mm² • minimum 35 mm² connectable conductor cross-section finely stranded with core end processing 0.75 mm² minimum • maximum 25 mm² AWG number as coded connectable conductor cross section 18 • minimum • 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 90 mm height 18 mm width depth 76 mm installation depth 70 mm number of modular width units fastening method Quick assembly system mounting position any net weight 158 g **Environmental conditions** influence of the surrounding temperature max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C IEC / EN 60898-1, IEC / EN 60947-2 / UL1077 standard vibration resistance according to IEC 60068-2-6 ±1mm at 5 to 25Hz; 50m/s2 at 25 to 150Hz ambient temperature during operation -25 °C • minimum 55 °C maximum ambient temperature during storage -40 °C • minimum maximum 75 °C number of test cycles for environmental testing according to IEC 60068-2-30 **General Product Approval**

Confirmation









Miscellaneous

General Product Approval EMC	Declaration of Conformity
------------------------------	---------------------------



Miscellaneous







Test Certificates

Marine / Shipping

Miscellaneous











other

Environment

Miscellaneous

Confirmation

Environmental Confirmations

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=5SY6110-7

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

https://support.industry.siemens.com/cs/ww/en/ps/5SY6110-7

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

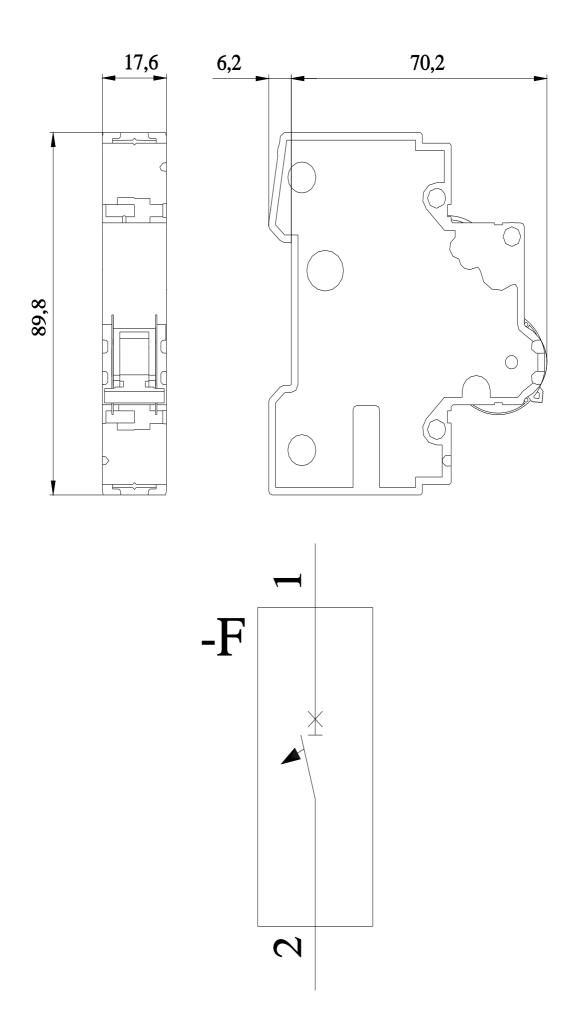
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY6110-7

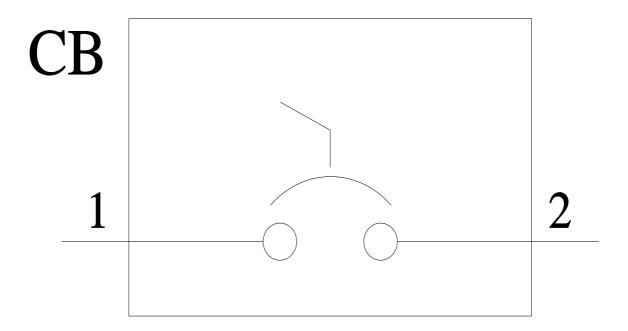
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





last modified: 2/7/2023 🖸