SIEMENS

Data sheet 5SY6125-7



Miniature circuit breaker 230/400 V 6kA, 1-pole, C, 25A, D=70 mm

product brand name product designation Miniature circuit breaker General technical data number of poles design of pole 1 P	Model	
Ceneral technical data	product brand name	SENTRON
number of poles design of pole 1 P	product designation	Miniature circuit breaker
design of pole tripping characteristic class C C mechanical service life (operating cycles) typical 10 0000 overvoltage category degree of pollution 3 3 Voltage Vyoltage V 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 230 V Supply voltage with single-phase operation at AC rated value 440 V subject of the value supply voltage with single-phase operation at AC rated value 440 V subject of the value 440 V voltage with single-phase operation at AC rated value 440 V voltage via AC rated value 440 V voltage via AC rated value 440 V voltage voltage via AC rated value 440 V voltage	General technical data	
tripping characteristic class mechanical service life (operating cycles) typical 10 000 overvoltage category IIII overvoltage category IIII overvoltage of pollution 3 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 440 V supply voltage with single-phase operation at AC rated value supply voltage with single-phase operation at AC rated value 440 V supply voltage supply voltage supply voltage • at AC rated value 400 V • at DC rated value of the supply voltage frequency 50/60 Hz operating voltage at DC rated value maximum 72 V Protection class IP IP20, with connected conductors Switching capacity current • at DC according to IEC 60947-2 rated value 6 kA • according to IEC 60947-2 rated value 6 kA • according to IEC 60947-2 rated value 6 kA • according to IEC 60947-2 rated value 7 is kA • according to IEC 60947-2 rated value 7 is kA • according to IEC 60947-2 rated value 7 is kA • according to IEC 60947-2 rated value 7 is kA • according to IEC 60947-2 rated value 8 is kA • according to IEC 60947-2 rated value 9 is kA • according to IEC 60947-2 rated value 9 is kA • according to IEC 60947-2 rated value 9 is kA • according to IEC 60947-2 rated value 9 is kA • according to IEC 60947-2 rated value 9 is kA • according to IEC 60947-2 rated value 9 is kA • according to IEC 60947-2 rated value 9 is kA • according to IEC 60947-2 rated value 9 is kA • according to IEC 60947-2 rated value 9 is kA • according to IEC 60947-2 rated value 9 is kA • according to IEC 60947-2 rated value 9 is kA • according to IEC 60947-2 rated value 9 is kA • according to IEC 60947-2 rated value 9 is kA • according to IEC 60947-2 rated value 9 is kA • according to IEC 60947-2 rated value 9 is kA • according to IEC 60947-2 rated value 9 is kA • according to IEC 60947-2 rated value 9 is kA • according to IEC 60947-2 rated value 9 is kA • according to IEC 60947-2 rat	number of poles	1
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overvoltage category degree of pollution 3 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 with single-phase operation at AC rated value value supply voltage • at AC rated value 400 V • at DC rated value 60 V 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 6 kA • according to IEC 60947-2 rated value 15 kA • according to IEC 60947-2 rated value 6 kA • according to IEC 60947-2 rated value 75 kA • according to IEC 60	tripping characteristic class	C
Voltage Volt	mechanical service life (operating cycles) typical	10 000
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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 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		50/60 Hz
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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 Product details product component • combined terminal top • combined terminal bottom Yes	Protection class	
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 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 Mechanical engineering / industry Product details product component combined terminal top combined terminal bottom Yes 	 at DC 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 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 2.2 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		2.2 W
product component	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) 5 kA • at AC according to UL 1077 and CSA C22.2 No.235 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 height 90 mm width 18 mm depth 76 mm installation depth 70 mm number of modular width units fastening method Quick assembly system mounting position any net weight 149 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
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Miscellaneous







Test Certificates

Marine / Shipping

Miscellaneous











other

Environment

Confirmation

Miscellaneous

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=5SY6125-7

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

https://support.industry.siemens.com/cs/ww/en/ps/5SY6125-7

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

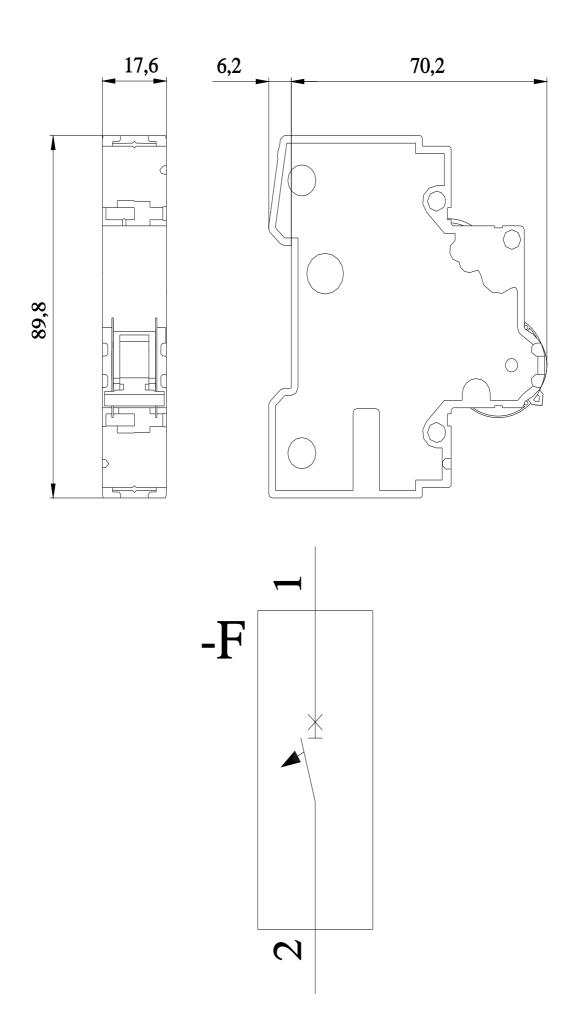
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY6125-7

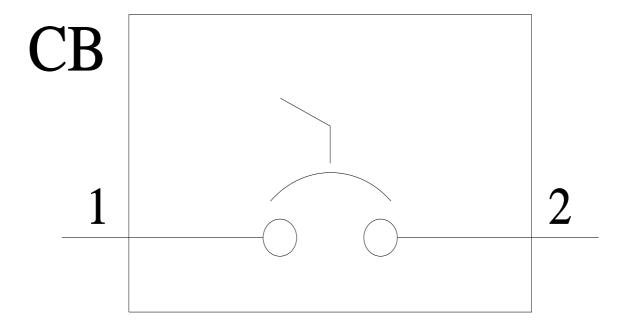
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





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