SIEMENS

Data sheet

5SY5102-7



Circuit breaker Universal current 220 V DC 230/400 V AC 10kA, 1-pole, C, 2A

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	
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	1.2 W
suitability for operation	universal current
Product details	
product component	
 combined terminal top 	Yes
 combined terminal bottom 	Yes
 neutral conductor switching 	No

product feature							
	nain switches in accordance with EN	Yes					
60204-1							
 halogen-free 		Yes					
 sealable 		Yes					
 silicon-free 		Yes					
	stallable supplementary devices	Yes					
Short circuit							
	preaking capacity (Icn)						
 at DC according 	ig to EN 60898-2	10 k/	A				
Connections							
connectable conduct	or cross-section solid						
 minimum 		0.75 mm ²					
 maximum 		35 m	35 mm²				
connectable conduct	or cross-section stranded						
 minimum 		0.75					
 maximum 		35 m	m²				
	or cross-section finely stranded with						
core end processing		0.75	mm ²				
minimum		0.75					
maximum	lad connectable conductor cross	25 m	111-				
section	led connectable conductor cross						
• minimum		18					
maximum		4					
	in] with screw-type terminals						
• minimum		22 lb	f-in				
 maximum 		31 lb					
	n screw-type terminals						
• minimum		2.5 N	ŀm				
 maximum 		3.5 N	·m				
position of power sup	oply cord	AC a	s required, observe DC	polarity			
Mechanical Design							
height		90 m	m				
width		18 m	m				
depth		76 m	m				
installation depth		70 mm					
number of modular w	number of modular width units		1				
fastening method		Quick assembly system					
mounting position		any					
net weight		173 g	173 g				
Environmental condi	tions						
influence of the surro	ounding temperature	max.	95% to 55°C, max. 55%	% to 70°C, max. 35% to	75°C		
standard	0	IEC / EN 60898-2, UL1077					
vibration resistance a	according to IEC 60068-2-6	±1mr	n at 5 to 25Hz; 50m/s² a	at 25 to 150Hz			
ambient temperature	-						
• 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 A	pproval						
Confirmation	((()		<u> </u>	<u>Miscellaneous</u>	FAL		
	CCC UR		VDE				
General Product Approval	Declaration of Conformity		Test Certificates		Marine / Shipping		

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<u>Miscellaneous</u>	CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	<u>Miscellaneous</u>	Lloyd's Register
other		Railway		Dangerous Good	Environment
Confirmation	<u>Miscellaneous</u>	Vibration and Shock	Confirmation	<u>Transport Informa-</u> tion	Environmental Con- firmations

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=5SY5102-7

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

https://support.industry.siemens.com/cs/ww/en/ps/5SY5102-7

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

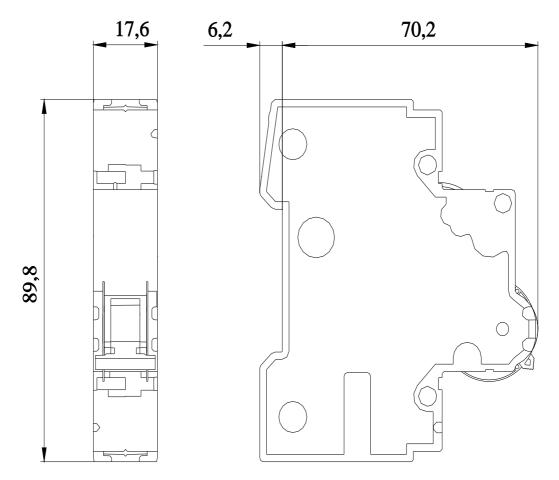
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY5102-7

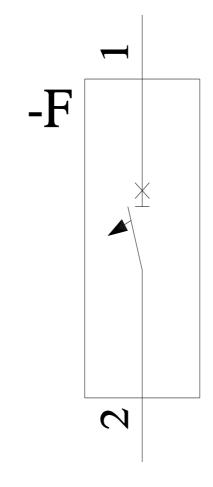
CAx-Online-Generator

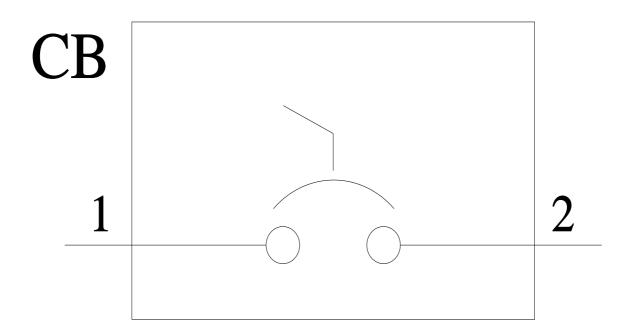
http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







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