SIEMENS

Data sheet 3SE5112-0CA00



basic switch for position switch 3SE51 metal enclosure, according to EN 50041, device connection 1 x (M20 x 1.5) 1 NO/1 NC quick action contacts without actuator head

product brand name	SIRIUS
product designation	Mechanical safety switches
product type designation	3SE5
manufacturer's article number	
 of the supplied switching contacts 	3SE5000-0CA00
 of the supplied empty enclosure with cover 	3SE5112-0AA00
suitability for use safety switch	Yes
General technical data	
product function positive opening	Yes
insulation voltage rated value	400 V
degree of pollution	class 3
surge voltage resistance rated value	6 kV
protection class IP	IP66/IP67
shock resistance	
• according to IEC 60068-2-27	30g / 11 ms
vibration resistance according to IEC 60068-2-6	0.35 mm/5g
mechanical service life (operating cycles) typical	15 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
thermal current	10 A
reference code according to IEC 81346-2	В
continuous current of the C characteristic MCB	1 A; for a short-circuit current smaller than 400 A
continuous current of the quick DIAZED fuse link	10 A; for a short-circuit current smaller than 400 A
continuous current of the DIAZED fuse link gG	6 A
active principle	mechanical
repeat accuracy	0.05 mm
Substance Prohibitance (Date)	07/01/2006
minimum actuating force in directions of actuation	20 N
length of the sensor	85.7 mm
width of the sensor	40 mm
Ambient conditions	
ambient temperature	
 during operation 	-25 +85 °C
during storage	-40 +90 °C
explosion protection category for dust	none
design of the switching contact	mechanical
operating frequency rated value	50 60 Hz
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
operational current at AC-15	

at 24 V rated value at 125 V rated value at 125 V rated value at 400 V rated value at 25 V rated value at 250 V rated value at 250 V rated value at 400 V rate				
• at 240 V rated value • at 400 V rated value • at 400 V rated value operational current at DC-13 • at 240 V rated value • at 125 V rated value • at 125 V rated value • at 250 V rated value • at 400 V rated value • at 250 V rated value • at 400 V rated value • at 250 V rated value • at 400 V rated value • at 250 V rated value • at 400 V rated value • at 400 V rated value • at 250 V rated value • at 400 V rated value • at 250 V rated value • at 400 V rated value • at 250 V rated value • at 400 V rate	 at 24 V rated value 	6 A		
• at 400 V rated value • at 24 V rated value • at 24 V rated value • at 250 V rated value • at 250 V rated value • at 260 V rated value • at 260 V rated value • at 270 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 250 V rated value • at 400 V rated value • at 250 V rated value • at 400 V rat	 at 125 V rated value 	6 A		
e at 24 V rated value 3 A • at 25 V rated value 0.55 A • at 25 V rated value 0.27 A • at 400 V rated value 0.12 A molosure design of the housing block, narrow material of the enclosure cathodic dip coating design of the enclosure design of the enclosure cathodic dip coating design of the housing according to standard rive Head design of the actuating element Other, without, basic switch design of the switching function Positive opening with appropriate positive opening actuator head circuit principle snap-action contacts number of switching contacts safety-related 1 (x (M20 x 1.5)) stallation/ mounting/ dimensions mounting position any screw fixing connections type of electrical connection screw-type terminals type of electrical connection screw-type terminals type of connectable conductor cross-sections • solid 1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²) • for AWG cables solid 1x (20 18), 2x (20 18) • for AWG cables stranded with core end processing without design of the interface without design of the interface without	 at 240 V rated value 	6 A		
at 24 V rated value at 125 V rated value at 250 V rated value 0.27 A at 250 V rated value 0.12 A colorsure design of the housing material of the enclosure coating of the enclosure design of the housing material of the surface of	at 400 V rated value	4 A		
at 125 V rated value at 250 V rated value at 250 V rated value at 400 V rated value block, narrow material of the housing material of the enclosure design of the housing material of the enclosure coating of the enclosure coating of the housing according to standard rive Hoad design of the switching function design of the switching function positive opening with appropriate positive opening actuator head circuit principle snap-action contacts number of switching contacts safety-related cable entry type acable	operational current at DC-13			
• at 250 V rated value • at 400 V rated value • at 400 V rated value 0.12 A	at 24 V rated value	3 A		
• at 400 V rated value nclosure design of the housing material of the enclosure coating of the enclosure coating of the housing according to standard design of the housing according to standard Yes rive Head design of the actuating element design of the switching function circuit principle snap-action contacts number of switching contacts safety-related 1 cable entry type 1x (M20 x 1.5) stallation/ mounting/ dimensions mounting position fastening method connections/ Terminals type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables stranded design of the interface for safety-related communication ommunication/ Protocol design of the interface without without entiticates/ approvals	 at 125 V rated value 	0.55 A		
design of the housing material of the enclosure cathodic dip coating design of the housing metal coating of the enclosure cathodic dip coating design of the housing according to standard yes rive Head design of the actuating element Other, without, basic switch design of the switching function Positive opening with appropriate positive opening actuator head circuit principle snap-action contacts number of switching contacts safety-related 1 x (M20 x 1.5) stallation/ mounting/ dimensions mounting position any fastening method screw fixing onnections/ Terminals type of electrical connection type of electrical connection for AWG cables solid 1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²) of or AWG cables stranded design of the interface for safety-related communication without ornmunication/ Protocol design of the interface without	 at 250 V rated value 	0.27 A		
material of the enclosure coating of the enclosure coating of the enclosure design of the housing according to standard rive Head design of the actuating element design of the switching function circuit principle number of switching contacts safety-related cable entry type 1x (M20 x 1.5) stallation/ mounting / dimensions mounting position fastening method onnections/ Terminals type of electrical connection type of connectable conductor cross-sections infinely stranded with core end processing if finely stranded with core and processing if no AWG cables stranded design of the interface without ommunication/ Protocol design of the interface without ordinals without without without ertificates/ approvals	 at 400 V rated value 	0.12 A		
material of the enclosure coating of the enclosure design of the housing according to standard Yes coating of the switching function Positive opening with appropriate positive opening actuator head circuit principle snap-action contacts number of switching contacts safety-related 1 (M20 x 1.5) stallation/ mounting/ dimensions mounting position fastening method connections/ Terminals type of electrical connection type of connectable conductor cross-sections solid finely stranded with core end processing for AWG cables solid for AWG cables stranded design of the interface without continuations/ Protocol design of the interface without	inclosure			
coating of the enclosure design of the housing according to standard Yes Other, without, basic switch design of the actuating element design of the switching function Positive opening with appropriate positive opening actuator head circuit principle snap-action contacts number of switching contacts safety-related 1 (M20 x 1.5) stallation/ mounting/ dimensions mounting position fastening method connections/ Terminals type of electrical connection screw-type terminals type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded design of the interface for safety-related communication communication/ Protocol design of the interface without	design of the housing	block, narrow		
design of the housing according to standard ves vive Head design of the actuating element design of the switching function circuit principle snap-action contacts number of switching contacts safety-related cable entry type 1x (M20 x 1.5) statllation/ mounting/ dimensions mounting position fastening method sornections/ Terminals type of connectable conductor cross-sections e solid finely stranded with core end processing for AWG cables solid for AWG cables stranded design of the interface for safety-related communication without without Yes Other, without, basic switch Positive opening with appropriate positive opening actuator head scription without, basic switch Positive opening with appropriate positive opening actuator head scription without, basic switch Positive opening with appropriate positive opening actuator head scription without, basic switch Positive opening with appropriate positive opening actuator head switch Positive opening with appropriate positive opening actuator head scription without Total Cables A (M20 x 1.5) solid any screw fixing screw-type terminals type of connectable conductor cross-sections a solid 1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²) a finely stranded with core end processing 1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²) a for AWG cables solid 1x (20 16), 2x (20 18) design of the interface for safety-related communication without	material of the enclosure	metal		
design of the actuating element design of the switching function circuit principle number of switching contacts safety-related cable entry type 1x (M20 x 1.5) statillation/ mounting/ dimensions mounting position fastening method connections/ Terminals type of electrical connection yep of connectable conductor cross-sections is solid finely stranded with core end processing for AWG cables solid for AWG cables stranded design of the interface for safety-related communication without certificates/ approvals	coating of the enclosure	cathodic dip coating		
design of the actuating element design of the switching function positive opening with appropriate positive opening actuator head circuit principle number of switching contacts safety-related 1 cable entry type 1x (M20 x 1.5) Installation/ mounting/ dimensions mounting position any fastening method connections/ Terminals type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded design of the interface for safety-related communication controlled by the control of the interface without controlled by the controlled of the interface without sertificates/ approvals	design of the housing according to standard	Yes		
design of the switching function circuit principle number of switching contacts safety-related cable entry type 1x (M20 x 1.5) Installation/ mounting/ dimensions mounting position fastening method connections/ Terminals type of electrical connection solid finely stranded with core end processing for AWG cables solid of or AWG cables stranded design of the interface for safety-related communication for the switching function positive opening with appropriate positive opening actuator head snap-action contacts 1x (M20 x 1.5) 1x (M20 x 1.5) 1x (M20 x 1.5) 1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²) 1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²) 1x (20 16), 2x (20 18) 4x (20 16), 2x (20 18)	Prive Head			
circuit principle number of switching contacts safety-related 1 cable entry type 1x (M20 x 1.5) stallation/ mounting/ dimensions mounting position fastening method onnections/ Terminals type of electrical connection type of connectable conductor cross-sections • solid finely stranded with core end processing for AWG cables solid for AWG cables stranded for AWG cables stranded terifficates/ approvals snap-action contacts 1x (M20 x 1.5) 1x (20 1.5 mm²), 2x (0.5 0.75 mm²) 1x (20 1.5 mm²), 2x (0.5 0.75 mm²) 1x (20 16), 2x (20 18) 4x (20 16) (2x (20 18) 4x (2x (2x (20 .	design of the actuating element	Other, without, basic switch		
number of switching contacts safety-related cable entry type 1x (M20 x 1.5) stallation/ mounting/ dimensions mounting position fastening method connections/ Terminals type of electrical connection type of connectable conductor cross-sections • solid finely stranded with core end processing for AWG cables solid for AWG cables stranded for AWG cables stranded type of connectable communication without without without without screw-type terminals 1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²) 1x (20 16), 2x (20 18) without communication/ Protocol design of the interface without without	design of the switching function	Positive opening with appropriate positive opening actuator head		
cable entry type nstallation/ mounting/ dimensions mounting position fastening method connections/ Terminals type of electrical connection screw-type terminals type of connectable conductor cross-sections • solid finely stranded with core end processing • for AWG cables solid • for AWG cables stranded ty (20 16), 2x (20 18) • for AWG cables stranded design of the interface for safety-related communication without communication/ Protocol design of the interface without	circuit principle	snap-action contacts		
mounting position fastening method connections/ Terminals type of electrical connection	number of switching contacts safety-related	1		
mounting position fastening method screw fixing connections/ Terminals type of electrical connection screw-type terminals type of connectable conductor cross-sections • solid finely stranded with core end processing for AWG cables solid for AWG cables stranded for the interface for safety-related communication type of connectable conductor cross-sections 1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²) 1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²) 1x (20 16), 2x (20 18) type of connectable conductor cross-sections 1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²) 1x (20 16), 2x (20 18) type of connectable conductor cross-sections 1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²) type of connectable conductor cross-sections 1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²) type of connectable conductor cross-sections 1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²) type of connectable conductor cross-sections 1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²) type of connectable conductor cross-sections 1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²) type of connectable conductor cross-sections type of connectable conductor cross-sections 1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²) type of connectable conductor cross-sections type of connectable c	cable entry type	1x (M20 x 1.5)		
fastening method screw fixing connections/ Terminals type of electrical connection screw-type terminals type of connectable conductor cross-sections	nstallation/ mounting/ dimensions			
type of electrical connections type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded • for AWG cables stranded • type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables solid • for AWG cables stranded • type of connectable connection • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded • type of connectable connection • type of connectable	mounting position	any		
type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded • without • without • certificates/ approvals	fastening method	screw fixing		
type of connectable conductor cross-sections • solid • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded • for AWG cables stranded • to a stranded • without • to a stranded • without	connections/ Terminals			
 solid finely stranded with core end processing for AWG cables solid for AWG cables stranded for the interface for safety-related communication without Sommunication/ Protocol design of the interface without without without	type of electrical connection	screw-type terminals		
 finely stranded with core end processing for AWG cables solid for AWG cables stranded for AWG cables stranded 1x (20 16), 2x (20 18) design of the interface for safety-related communication without design of the interface without 	type of connectable conductor cross-sections			
● for AWG cables solid ■ for AWG cables stranded ■ f	• solid	1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²)		
● for AWG cables stranded 1x (20 16), 2x (20 18) design of the interface for safety-related communication without design of the interface without dertificates/ approvals	 finely stranded with core end processing 	1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²)		
design of the interface for safety-related communication without design of the interface without design of the interface without	 for AWG cables solid 	1x (20 16), 2x (20 18)		
design of the interface without sertificates/ approvals	 for AWG cables stranded 	1x (20 16), 2x (20 18)	1x (20 16), 2x (20 18)	
design of the interface without ertificates/ approvals	design of the interface for safety-related communication	without		
Certificates/ approvals	Communication/ Protocol			
	design of the interface	without		
Functional	ertificates/ approvals			
			Functional	

General Product Approval

Functional Safety/Safety of Machinery



Confirmation







Type Examination Certificate

Declaration of Conformity

Test Certificates

other





Type Test Certificates/Test Report

Confirmation

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,...)

https://www.siemens.com/ic10

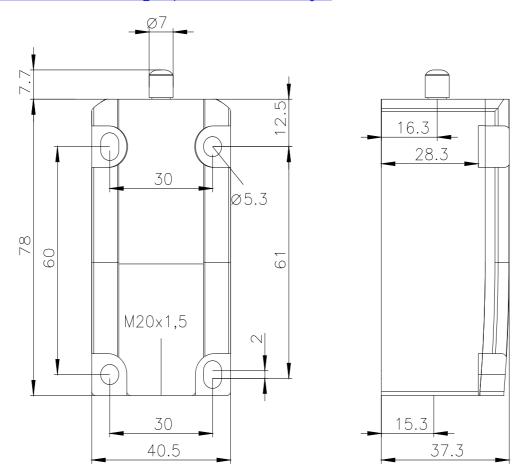
Industry Mall (Online ordering system)

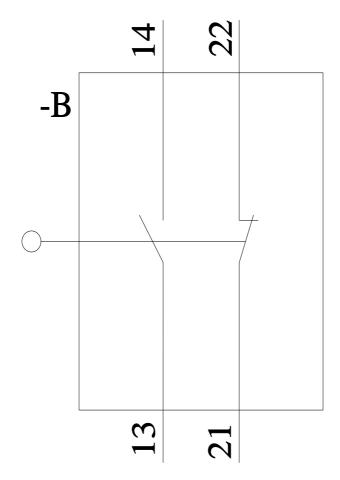
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SE5112-0CA00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5112-0CA00

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5112-0CA00&lang=en





last modified: 3/23/2022 🖸

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens:

3SE51120CA00