Data sheet

3SE5112-0BA00-1CA0



Basic switch with increased corrosion protection for position switch Metal enclosure, according to EN 50041 1x (M20 x 1.5) 1 NO/1 NC slow-action contacts without actuator head

product type designation product type designation groduct type designation 3SE5 3SE5 3SE5 3SE5 3SE5 3SE5 3SE5 3SE5	product brand name	SIRIUS
manufacturer's article number • of the supplied switching contacts • of the supplied empty enclosure with cover suitability for use safety switch Yes Ceneral technical data product function positive opening risulation voltage rated value degree of pollution class 3 surge voltage resistance rated value 6 kV protection class IP shock resistance • according to IEC 60068-2-7 vibration resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical electrical endurance (operating cycles) typical thermal current thermal current 10 A reference code according to IEC 81346-2 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 continuous current of the Quick DIAZED fuse link gG active principle repeat accuracy 0.05 mm Substance Prohibitance (Date) minimum actuating force in directions of actuation length of the sensor 40 mm Ambient conditions ambient temperature • during operation • during storage 40 uring storage	product designation	Mechanical safety switches
of the supplied empty enclosure with cover site of the supplied empty enclosure with cover suitability for use safety switch Pes Ceneral technical data product function positive opening Yes Insulation voltage rated value degree of pollution surge voltage resistance rated value for two protection class IP shock resistance * according to IEC 60068-2-27 substance according to IEC 60068-2-27 wibration resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical electrical endurance (operating cycles) typical electrical endurance (operating cycles) typical electrical endurance (operating to IEC 81346-2 B 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 gG active principle repeat accuracy 0.05 mm Substance Prohibitance (Date) minimum actuating force in directions of actuation ind the sensor width of the sensor during operation eduring storage 40 +90 °C **SESTI2-AA00-1CA0 **Yes **Yes **Yes **Yes **Yes **Yes **Yes **Nes **Yes **Nes **Yes **Insulation voltage rated value **Yes **Insulation voltage rated value **Augustance Prohibitance (Date) **Augustance Prohibitance (Date) **Augustance Prohi	product type designation	3SE5
of the supplied empty enclosure with cover suitability for use safety switch Pes General technical data product function positive opening Pes insulation voltage rated value degree of pollution degree of pollution degree of pollution surge voltage resistance rated value o kV protection class IP shock resistance *according to IEC 60068-2-27 slog / 11 ms vibration resistance according to IEC 60068-2-6 o .35 mm/5g mechanical service life (operating cycles) typical electrical endurance (operating cycles) typical electrical endurance (operating cycles) typical thermal current 10 A reference code according to IEC 81346-2 B 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 Continuous current of the DIAZED fuse link gG active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) minimum actuating force in directions of actuation 20 N length of the sensor 40 mm Ambient temperature e during operation -25 +85 °C -40 +90 °C	manufacturer's article number	
suitability for use safety switch Ceneral technical data product function positive opening product function positive function positive function positive function positive function positive function positive f	 of the supplied switching contacts 	3SE5000-0BA00
General technical data product function positive opening insulation voltage rated value degree of pollution class 3 surge voltage resistance rated value for the continuous current of the DIAZED fuse link gG active principle repeat accuracy Substance voltage resistance according to IEC 81046-2 continuous current of the DIAZED fuse link gG active principle repeat accuracy Substance (Date) More of Date (of the supplied empty enclosure with cover 	3SE5112-0AA00-1CA0
product function positive opening insulation voltage rated value degree of pollution class 3 surge voltage resistance rated value 6 kV protection class IP shock resistance • according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical electrical endurance (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current 10 A reference code according to IEC 81346-2 B continuous current of the C characteristic MCB continuous current of the quick DIAZED fuse link continuous current of the DIAZED fuse link gG active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) minimum actuating force in directions of actuation length of the sensor width of the sensor 40 mm Ambient conditions ambient temperature • during operation -25 +85 °C -40 +90 °C	suitability for use safety switch	Yes
insulation voltage rated value degree of pollution class 3 surge voltage resistance rated value protection class IP lP66/IP67 shock resistance • according to IEC 60068-2-27 30g / 11 ms vibration resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current 10 A reference code according to IEC 81346-2 continuous current of the C characteristic MCB 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 10 A; for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link 0 A; for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link 0 A; for a short-circuit current smaller than 400 A continuous current of the 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) minimum actuating force in directions of actuation 20 N length of the sensor 40 mm Ambient conditions ambient temperature • during operation -25 +85 °C -40 +90 °C	General technical data	
degree of pollution class 3 surge voltage resistance rated value protection class IP shock resistance • according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical electrical endurance (operating cycles) typical thermal current 10 A reference code according to IEC 81346-2 continuous current of the C characteristic MCB continuous current of the Quick DIAZED fuse link continuous current of the DIAZED fuse link (10 A) for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link (10 A) for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link (10 A) for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link (10 A) for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link (10 A) for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link (10 A) for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link (10 A) for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link (10 A) for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link (10 A) for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link (10 A) for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link (10 A) for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link (10 A) for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link (10 A) for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link (10 A) for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link (10 A) for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link (10 A) for a short-circuit current smaller than 400 A continuous current of the DI	product function positive opening	Yes
surge voltage resistance rated value protection class IP shock resistance • according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current 10 A reference code according to IEC 81346-2 continuous current of the C characteristic MCB continuous current of the quick DIAZED fuse link continuous current of the DIAZED fuse link gG active principle repeat accuracy Substance Prohibitance (Date) minimum actuating force in directions of actuation length of the sensor ### Adv mm Ambient conditions ambient temperature • during operation • during storage ### Ava May And	insulation voltage rated value	400 V
protection class IP shock resistance	degree of pollution	class 3
shock resistance according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current 10 A reference code according to IEC 81346-2 B continuous current of the C characteristic MCB continuous current of the quick DIAZED fuse link continuous current of the DIAZED fuse link continuous current of the DIAZED fuse link gG active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) minimum actuating force in directions of actuation length of the sensor width of the sensor 40 mm Ambient conditions ambient temperature during operation during storage 40 +90 °C	surge voltage resistance rated value	6 kV
according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current thermal current 10 A reference code according to IEC 81346-2 B 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 continuous current of the DIAZED fuse link gG active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) minimum actuating force in directions of actuation length of the sensor width of the sensor width of the sensor 40 mm Ambient conditions ambient temperature e during operation -25 +85 °C -40 +90 °C	protection class IP	IP66/IP67
vibration resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current 10 A reference code according to IEC 81346-2 B continuous current of the C characteristic MCB continuous current of the quick DIAZED fuse link continuous current of the DIAZED fuse link continuous current of the DIAZED fuse link do A; for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link gG active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) minimum actuating force in directions of actuation length of the sensor width of the sensor 40 mm Ambient conditions ambient temperature e during operation -25 +85 °C -40 +90 °C	shock resistance	
mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current 10 A reference code according to IEC 81346-2 continuous current of the C characteristic MCB continuous current of the quick DIAZED fuse link continuous current of the pliazed fuse link continuous current of the DIAZED fuse link continuous current of the DIAZED fuse link gG active principle repeat accuracy 3ubstance Prohibitance (Date) minimum actuating force in directions of actuation length of the sensor width of the sensor width of the sensor Ambient conditions ambient temperature • during operation • during storage 10 0 000 100 000	• according to IEC 60068-2-27	30g / 11 ms
electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current 10 A reference code according to IEC 81346-2 continuous current of the C characteristic MCB continuous current of the quick DIAZED fuse link continuous current of the pliazed fuse link continuous current of the DIAZED fuse link gG active principle repeat accuracy 30.05 mm Substance Prohibitance (Date) minimum actuating force in directions of actuation length of the sensor width of the sensor width of the sensor ambient temperature o during operation other in the AC-15 at 230 V 100 000 10 A 10	vibration resistance according to IEC 60068-2-6	0.35 mm/5g
thermal current thermal current 10 A reference code according to IEC 81346-2 B 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) minimum actuating force in directions of actuation length of the sensor width of the sensor 40 mm Ambient conditions ambient temperature • during operation • during storage -40 +90 °C	mechanical service life (operating cycles) typical	15 000 000
reference code according to IEC 81346-2 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) minimum actuating force in directions of actuation 20 N length of the sensor width of the sensor 40 mm Ambient conditions ambient temperature • during operation -25 +85 °C -40 +90 °C	· · · · · · · · · · · · · · · · · · ·	100 000
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) minimum actuating force in directions of actuation length of the sensor width of the sensor width of the sensor 40 mm Ambient conditions ambient temperature • during operation -25 +85 °C • during storage -40 +90 °C	thermal current	10 A
continuous current of the quick DIAZED fuse link continuous current of the DIAZED fuse link gG active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) minimum actuating force in directions of actuation length of the sensor width of the sensor Ambient conditions ambient temperature • during operation • during storage 10 A; for a short-circuit current smaller than 400 A 6 A 10 A; for a short-circuit current smaller than 400 A 6 A 10 A; for a short-circuit current smaller than 400 A 6 A 10 A; for a short-circuit current smaller than 400 A 6 A 10 A; for a short-circuit current smaller than 400 A 6 A 10 A; for a short-circuit current smaller than 400 A 6 A 10 A; for a short-circuit current smaller than 400 A 6 A 10 A; for a short-circuit current smaller than 400 A 6 A 10 A; for a short-circuit current smaller than 400 A 6 A 10 A; for a short-circuit current smaller than 400 A 6 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-	reference code according to IEC 81346-2	В
continuous current of the DIAZED fuse link gG 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	continuous current of the C characteristic MCB	1 A; for a short-circuit current smaller than 400 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	continuous current of the quick DIAZED fuse link	10 A; for a short-circuit current smaller than 400 A
repeat accuracy Substance Prohibitance (Date) minimum actuating force in directions of actuation length of the sensor width of the sensor 40 mm Ambient conditions ambient temperature • during operation • during storage 0.05 mm 07/01/2006 85.7 mm 40 mm 40 mm	continuous current of the DIAZED fuse link gG	6 A
Substance Prohibitance (Date) minimum actuating force in directions of actuation length of the sensor width of the sensor Ambient conditions ambient temperature • during operation • during storage 07/01/2006 85.7 mm 40 mm 40 mm -25 +85 °C -40 +90 °C	active principle	mechanical
minimum actuating force in directions of actuation length of the sensor width of the sensor Ambient conditions ambient temperature • during operation -25 +85 °C • during storage 20 N 85.7 mm 40 mm -25 +85 °C -40 +90 °C	repeat accuracy	0.05 mm
length of the sensor width of the sensor 40 mm Ambient conditions ambient temperature • during operation • during storage -25 +85 °C -40 +90 °C	Substance Prohibitance (Date)	07/01/2006
width of the sensor Ambient conditions ambient temperature • during operation • during storage 40 mm -25 +85 °C -40 +90 °C	minimum actuating force in directions of actuation	20 N
Ambient conditions ambient temperature • during operation • during storage -25 +85 °C -40 +90 °C	length of the sensor	85.7 mm
ambient temperature • during operation -25 +85 °C • during storage -40 +90 °C	width of the sensor	40 mm
 ◆ during operation ◆ during storage -25 +85 °C -40 +90 °C 	Ambient conditions	
• during storage -40 +90 °C	ambient temperature	
3	during operation	-25 +85 °C
explosion protection category for dust none	during storage	-40 +90 °C
	explosion protection category for dust	none
design of the switching contact mechanical	design of the switching contact	mechanical
operating frequency rated value 50 60 Hz	operating frequency rated value	50 60 Hz
number of NC contacts for auxiliary contacts 1	number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts 1	number of NO contacts for auxiliary contacts	1
operational current at AC-15	operational current at AC-15	

at 24 V rated value	6 A
• at 125 V rated value	6 A
• at 240 V rated value	6 A
at 400 V rated value	4 A
operational current at DC-13	
at 24 V rated value	3 A
at 125 V rated value	0.55 A
at 250 V rated value	0.27 A
at 400 V rated value	0.12 A
Enclosure	
design of the housing	block, narrow
material of the enclosure	metal
coating of the enclosure	cathodic dip coating
design of the housing according to standard	Yes
Drive 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	slow-action contacts
number of switching contacts safety-related	1
cable entry type	1x (M20 x 1.5)
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw fixing
Connections/ 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)
 finely stranded with core end processing 	1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²)
 for AWG cables solid 	1x (20 16), 2x (20 18)
 for AWG cables stranded 	1x (20 16), 2x (20 18)
design of the interface for safety-related communication	without
Communication/ Protocol	
design of the interface	without
Certificates/ approvals	
	Functional



General Product Approval



Confirmation





Type Examination Certificate

Safety/Safety of Ma-

chinery

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

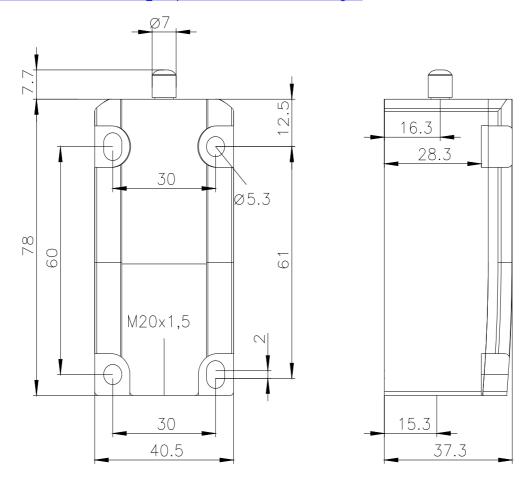
Industry Mall (Online ordering system)

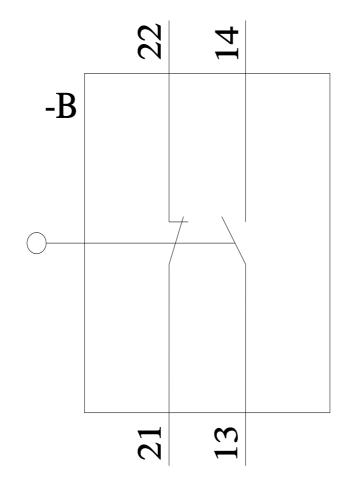
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SE5112-0BA00-1CA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5112-0BA00-1CA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5112-0BA00-1CA0&lang=en





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