SIEMENS

Data sheet 3SE5112-0KB01



Position switch Metal enclosure 40 mm according to EN 50041 Device connection 1x (M20 x 1.5) 1 NO/2 NC slow-action contacts Plain plunger, stainless steel

product designation	product brand name	SIRIUS
product type designation 3SE5 manufacturer's article number of the supplied sels switch of the supplied actuator head for position switches of the supplied actuator head for positive open display switch yes Concrat lochrical data For product function positive opening product function positive opening insulation voltage rated value degree of pollution delses 3 surge voltage resistance rated value of kV protection class IP profection class IP prof	· .	Mechanical position switches
manufacturer's article number of the supplied basic switch of the supplied advatch head for position switches of the supplied davatch head for position switches of the supplied davatch head for position switches as 55500_0AB01 35500_0AB01 35500_0AB00 355500_0AB00 3555112_0AA00 suitability for use safety switch Ves Concrait technical data Product function positive opening Yes Insulation voltage rated value degree of pollution class 3 surge voltage resistance rated value 6 kV protection class IP shock resistance • according to IEC 60068-2-7 vibration resistance according to IEC 60068-2-6 0.35 mm/5g mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical erference code according to IEC 81346-2 B Continuous current of the Characteristic MCB 1 A; for a short-circuit current smaller than 400 A continuous current of the duick DIAZED fuse link continuous current of the DIAZED fuse link G continuous current of the benefice in directions of actuation G length of the sensor width of the sensor 40 mm Ambient conditions mablent temperature • during operation • during operation • during operation • during storage • during of the switching contact mechanical mechan		·
of the supplied actuator head for position switches of the supplied switching contacts of the supplied empty enclosure with cover sultability for use safety switch sultability for use safety switch resultability of use safety switch resultability for use safety switch fo		
of the supplied actuator head for position switches of the supplied switching contacts of the supplied empty enclosure with cover sustability for use safety switch surface trunction positive opening insulation voltage rated value product function positive opening insulation voltage rated value degree of pollution surge voltage resistance rated value according to IEC 60068-2-27 shock resistance according to IEC 60068-2-27 wibration resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical thermal current the electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current of the enclosure of the switch head metal 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 DIAZED fuse link continuous current of the DIAZED fuse link G active principle repeat accuracy Substance Prohibitance (Date) minimum actuating force in directions of actuation length of the sensor adving storage adving of the switching contact mechanical mechanical	of the supplied basic switch	3SE5112-0KA00
of the supplied switching contacts of the supplied empty enclosure with cover statishifty for use safety switch General tochnical data product function positive opening prod	of the supplied actuator head for position switches	
Sultability for use safety switch General technical data product function positive opening Insulation voltage rated value 400 V degree of pollution class 3 surge voltage resistance rated value 9 6 kV protection class IP shock resistance e according to IEC 60068-2-27 90 11 ms Vibration resistance according to IEC 60068-2-6 0.35 mm/5g mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance for the switch head metal 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 Qiak DIAZED fuse link 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 width of the sensor width of the sensor • during operation • during operation • during operation • during storage explosion protection category for dust explosion of the switching contact • explosion protection category for dust explosion of the switching contact • mechanical mechani	of the supplied switching contacts	3SE5000-0KA00
product function positive opening production production class read value protection class IP product resistance product resistance product resistance product resistance according to IEC 60068-2-7 protection class revice life (operating cycles) typical product resistance according to IEC 60068-2-6 product resistance according to IEC 60068-2-6 product resistance according to IEC 60068-2-6 product resistance according to IEC 80068-2-6 product resistance according to	of the supplied empty enclosure with cover	3SE5112-0AA00
product function positive opening Pes	suitability for use safety switch	Yes
insulation voltage rated value degree of pollution class 3 surge voltage resistance rated value protection class IP 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 material of the enclosure of the switch head 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 cative 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 explosion protection category for dust mechanical mechanical repeat accuracy 0.05 mm 40 mm Ambient conditions ambient temperature • during operation • during storage explosion protection category for dust mechanical mecha	General technical data	
degree of pollution class 3 surge voltage resistance rated value 6 kV protection class IP IP66/IP67 shock resistance	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 material of the enclosure of the switch head metal 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 DIAZED fuse link 10 A; for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link 0.05 mm continuous current of the DIAZED fuse link G active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) 70701/2006 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 • during storage 40 +90 °C explosion protection category for dust none design of the switching contact mechanical	insulation voltage rated value	400 V
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 material of the enclosure of the switch head metal 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 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 • during operation • during storage explosion protection category for dust mechanical mechanical repeat survey explosion protection category for dust none mechanical	degree of pollution	class 3
shock resistance	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	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 material of the enclosure of the switch head reference code according to IEC 81346-2 continuous current of the C characteristic MCB continuous current of the quick DIAZED fuse link to A, for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link to A, for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link to A, for a short-circuit current smaller than 400 A continuous current of the DIAZED fuse link to 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 20 N length of the sensor 40 mm Ambient conditions ambient temperature • during operation • during storage -40 +90 °C explosion protection category for dust mechanical	shock resistance	
mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current 10 A material of the enclosure of the switch head reference code according to IEC 81346-2 continuous current of the C characteristic MCB continuous current of the quick DIAZED fuse link tontinuous current of the DIAZED fuse link continuous current of the DIAZED fuse link continuous current of the 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 width of the sensor 40 mm Ambient conditions ambient temperature o during operation other in the sensor during storage -40 +90 °C explosion protection category for dust mechanical 15 000 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 0	• according to IEC 60068-2-27	30g / 11 ms
electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current 10 A material of the enclosure of the switch head 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 DIAZED fuse link gG active principle repeat accuracy Substance Prohibitance (Date) minimum actuating force in directions of actuation length of the sensor width of the sensor width of the sensor ### Abbient conditions ### Ambient conditions ### Ambient temperature • during operation • during storage explosion protection category for dust design of the switching contact 10 A metal 10 A metal ### Metal ### Above the sensor than 400 A ### Above the sensor ###	vibration resistance according to IEC 60068-2-6	0.35 mm/5g
thermal current 10 A material of the enclosure of the switch head metal 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 G 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 40 during operation -25 +85 °C 40 uring storage -40 +90 °C explosion protection category for dust mechanical metal	mechanical service life (operating cycles) typical	15 000 000
material of the enclosure of the switch head 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 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 e during storage explosion protection category for dust design of the switching contact metal passion-circuit current smaller than 400 A 6 A active principle mechanical mechanical 10 A; for a short-circuit current smaller than 400 A 6 A active principle mechanical 10 A; for a short-circuit current smaller than 400 A 6 A active principle mechanical 10 A; for a short-circuit current smaller than 400 A 6 A active principle mechanical 10 A; for a short-circuit current smaller than 400 A 6 A active principle mechanical 10 A; for a short-circuit current smaller than 400 A 6 A active principle mechanical 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-cir		100 000
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 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 • during storage explosion protection category for dust design of the switching contact mechanical	thermal current	10 A
continuous current of the C characteristic MCB continuous current of the quick DIAZED fuse link 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 • during storage explosion protection category for dust design of the switching contact 1 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A 10 A; for a short-circuit current smaller than 400 A	material of the enclosure of the switch head	metal
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 o during operation o during storage e during storage e switching contact 10 A; for a short-circuit current smaller than 400 A 6 A mechanical 10 A; for a short-circuit current smaller than 400 A 6 A 6 A mechanical	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) 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 olduring operation during storage eduring storage esplosion protection category for dust mechanical 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6	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 explosion protection category for dust none design of the switching contact mechanical	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 during storage explosion protection category for dust design of the switching contact 0.05 mm 0.701/2006 85.7 mm 40 mm 40 mm 40 mm -25 +85 °C -40 +90 °C explosion protection category for dust none mechanical	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 40 mm Ambient conditions ambient temperature during operation during storage explosion protection category for dust design of the switching contact 07/01/2006 85.7 mm 40 mm 40 mm -25 +85 °C -40 +90 °C explosion protection category for dust mechanical	active principle	mechanical
minimum actuating force in directions of actuation length of the sensor width of the sensor 40 mm Ambient conditions ambient temperature oduring operation during storage during storage design of the switching contact 20 N 85.7 mm 40 mm 40 mm 40 mm -25 +85 °C -40 +90 °C explosion protection category for dust mechanical	repeat accuracy	0.05 mm
length of the sensor width of the sensor 40 mm Ambient conditions ambient temperature o during operation during storage explosion protection category for dust design of the switching contact 85.7 mm 40 mm 40 mm -25 +85 °C -40 +90 °C explosion protection category for dust mechanical	Substance Prohibitance (Date)	07/01/2006
width of the sensor Ambient conditions ambient temperature • during operation • during storage -40 +90 °C explosion protection category for dust design of the switching contact 40 mm -25 +85 °C -40 +90 °C explosion protection category for dust mechanical	minimum actuating force in directions of actuation	20 N
Ambient conditions ambient temperature • during operation • during storage • during storage -40 +90 °C explosion protection category for dust design of the switching contact mechanical	length of the sensor	85.7 mm
ambient temperature • during operation • during storage • during storage • during storage • -40 +90 °C explosion protection category for dust design of the switching contact mechanical	width of the sensor	40 mm
 during operation during storage +40 +90 °C explosion protection category for dust design of the switching contact mechanical	Ambient conditions	
• during storage -40 +90 °C explosion protection category for dust design of the switching contact mechanical	ambient temperature	
explosion protection category for dust none design of the switching contact mechanical	during operation	-25 +85 °C
design of the switching contact mechanical	during storage	-40 +90 °C
	explosion protection category for dust	none
operating frequency rated value 50 60 Hz	design of the switching contact	mechanical
	operating frequency rated value	50 60 Hz

number of NC contacts for auxiliary contacts	2	
number of NO contacts for auxiliary contacts	1	
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	Rounded plunger, high-grade steel plunger	
standard-compliant actuator head	EN 50041, design B	
shape of the switch head	rounded	
design of the switching function	positive opening	
circuit principle	slow-action contacts	
number of switching contacts safety-related	2	
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		
General Product Approval		Functional Safety/Safety of Ma-

chinery





Confirmation





Type Examination Cer**tificate**

Declaration of Conformity

Test Certificates

other





Type Test Certificates/Test Report

Confirmation

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

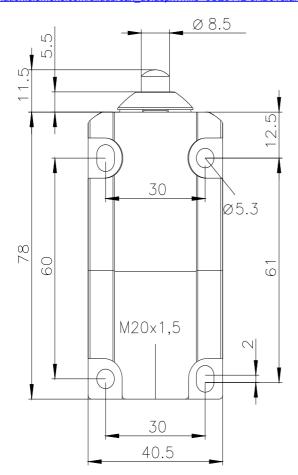
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SE5112-0KB01

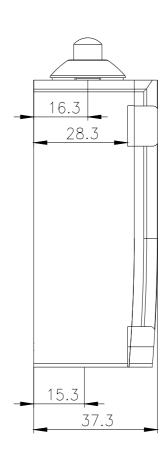
Cax online generator

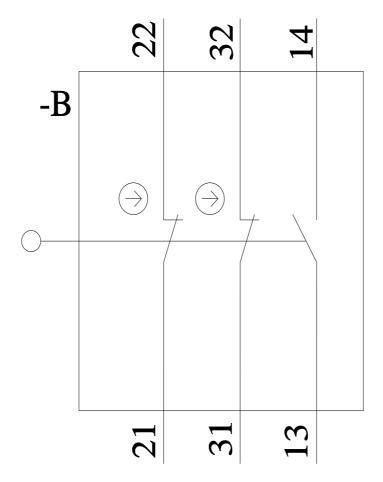
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5112-0KB01

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

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5112-0KB01&lang=en







last modified: 1/26/2022 🖸