SIEMENS

Data sheet

3SE5112-0CD02



Position switch Metal enclosure 40 mm according to EN 50041, Device connection 1x (M20 x 1.5) 1 NO/1 NC quick action contacts, roller plunger with 3 mm overtravel and stainless steel roller 13 mm

product designation Mechanical position switches product type designation 3SE5 manufacturer's article number 3SE5 • of the supplied basic switch 3SE5112-0CA00 • of the supplied duator head for position switches 3SE5000-0A002 • of the supplied empty enclosure with cover 3SE5000-0A002 • of the supplied empty enclosure with cover 3SE512-0AA00 suitability for use safety switch Yes General technical data	product brand name	SIRIUS
manufacturer's article number • of the supplied basic switch 3SE5112-0CA00 • of the supplied actuator head for position switches 3SE5000-0AD02 • of the supplied actuator head for position switches 3SE5000-0CA00 • of the supplied switching contacts 3SE5000-0CA00 • of the supplied switching contacts 3SE5112-0CA00 suitability for use safety switch Yes General technical data	product designation	Mechanical position switches
• of the supplied basic switch3SE5112-0CA00• of the supplied actuator head for position switches3SE5000-0AD02• of the supplied switching contacts3SE5000-0CA00• of the supplied empty enclosure with cover3SE5112-0AA00suitability for use safely switchYesCentral technical dataYesproduct function positive openingYesinsulation voltage rated value6 kVdegree of pollutionclass 3surge voltage resistance rated value6 kVprotection class IPIP66/IP67shock resistance	product type designation	3SE5
	manufacturer's article number	
• of the supplied switching contacts3SE5000-0CA00• of the supplied empty enclosure with cover3SE5112-0AA00suitability for use safety switchYesGeneral technical dataproduct function positive openingYesInsulation voltage rated value400 Vdegree of pollutionclass 3surge voltage resistance rated value6 kVprotection class IPIP66/P67shock resistance• according to IEC 60068-2-2730g / 11 msvibration resistance according to IEC 60068-2-60.35 mm/5gmechanical service life (operating cycles) typical15 000 000electrical endurance (operating cycles) at AC-15 at 230 V typical100 000thermal current10 Amaterial of the enclosure of the switch headmetalreference code according to IEC 81346-2Bcontinuous current of the Quick DIAZED fuse link10 A; for a short-circuit current smaller than 400 Acontinuous current of the quick DIAZED fuse link gG6 Aactive principlemechanicalrepeat accuracy0.05 mmSubstance Prohibitance (Date)07/01/2006minimum actuating force in directions of actuation20 Nlength of the sensor116.3 mmwidth of the sensor40 mm	 of the supplied basic switch 	<u>3SE5112-0CA00</u>
• of the supplied empty enclosure with cover3SE5112-0AA00suitability for use safety switchYesGeneral technical dataproduct function positive openingYesinsulation voltage rated value400 Vdegree of pollutionclass 3surge voltage resistance rated value6 kVprotection class IPIP66/IP67shock resistance30g / 11 ms• according to IEC 60068-2-2730g / 11 msvibration resistance according to IEC 60068-2-60.35 mm/5gmechanical service life (operating cycles) typical15 000 000electrical endurance (operating cycles) typical100 000thermal current10 Amaterial of the enclosure of the switch headmetalreference code according to IEC 81346-2Bcontinuous current of the C characteristic MCB1 A; for a short-circuit current smaller than 400 Acontinuous current of the DIAZED fuse link10 A; for a short-circuit current smaller than 400 Acontinuous current of the DIAZED fuse link0 A; for a short-circuit current smaller than 400 Acontinuous current of the DIAZED fuse link0 A; for a short-circuit current smaller than 400 Acontinuous current of the DIAZED fuse link0 A; for a short-circuit current smaller than 400 Acontinuous current of the BIAZED fuse link0 A; for a short-circuit current smaller than 400 Acontinuous current of the BIAZED fuse link0 A; for a short-circuit current smaller than 400 Acontinuous current of the BIAZED fuse link0 A; for a short-circuit current smaller than 400 Acontinuous curre	 of the supplied actuator head for position switches 	<u>3SE5000-0AD02</u>
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) typical 100 000 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 gG 6 A active principle mechanical repeat accuracy 0.05 mm Substance Prohibitance (Date) 07/01/2006 <th> of the supplied switching contacts </th> <th><u>3SE5000-0CA00</u></th>	 of the supplied switching contacts 	<u>3SE5000-0CA00</u>
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) typical 100 000 thermal current 10 A mathal 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 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	 of the supplied empty enclosure with cover 	<u>3SE5112-0AA00</u>
product function positive openingYesinsulation voltage rated value400 Vdegree of pollutionclass 3surge voltage resistance rated value6 kVprotection class IPIP66/IP67shock resistance-• according to IEC 60068-2-2730g / 11 msvibration resistance according to IEC 60068-2-60.35 mm/5gmechanical service life (operating cycles) typical15 000 000electrical endurance (operating cycles) at AC-15 at 230 V typical100 000thermal current10 Amaterial of the enclosure of the switch headmetalreference code according to IEC 81346-2Bcontinuous current of the C characteristic MCB1 A; for a short-circuit current smaller than 400 Acontinuous current of the pulck DIAZED fuse link10 A; for a short-circuit current smaller than 400 Acontinuous current of the DIAZED fuse link gG6 Aactive principlemechanicalrepeat accuracy0.05 mmSubstance Prohibitance (Date)07/01/2006minimum actuating force in directions of actuation20 Nlength of the sensor116.3 mmwidth of the sensor40 mm	suitability for use safety switch	Yes
Insulation voltage rated value400 Vdegree of pollutionclass 3surge voltage resistance rated value6 kVprotection class IPIP66/IP67shock resistance• according to IEC 60068-2-2730g / 11 msvibration resistance according to IEC 60068-2-60.35 mm/5gmechanical service life (operating cycles) typical15 000 000electrical endurance (operating cycles) at AC-15 at 230 V100 000typical10 Amaterial of the enclosure of the switch headmetalreference code according to IEC 81346-2Bcontinuous current of the C characteristic MCB1 A; for a short-circuit current smaller than 400 Acontinuous current of the DIAZED fuse link10 A; for a short-circuit current smaller than 400 Acontinuous current of the DIAZED fuse link gG6 Aactive principlemechanicalrepeat accuracy0.05 mmSubstance Prohibitance (Date)07/01/2006minimum actuating force in directions of actuation20 Nlength of the sensor40 mm	General technical data	
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surge voltage resistance rated value6 kVprotection class IPIP66/IP67shock resistance• according to IEC 60068-2-2730g / 11 msvibration resistance according to IEC 60068-2-60.35 mm/5gmechanical service life (operating cycles) typical15 000 000electrical endurance (operating cycles) at AC-15 at 230 V typical100 000thermal current10 Amaterial of the enclosure of the switch headmetalreference code according to IEC 81346-2Bcontinuous current of the C characteristic MCB1 A; for a short-circuit current smaller than 400 Acontinuous current of the DIAZED fuse link10 A; for a short-circuit current smaller than 400 Acontinuous current of the DIAZED fuse link0.05 mmsubstance Prohibitance (Date)07/01/2006minimum actuating force in directions of actuation20 Nlength of the sensor116.3 mmwidth of the sensor40 mm	insulation voltage rated value	400 V
DescriptionIP66/IP67shock resistance30g / 11 ms• according to IEC 60068-2-2730g / 11 msvibration resistance according to IEC 60068-2-60.35 mm/5gmechanical service life (operating cycles) typical15 000 000electrical endurance (operating cycles) at AC-15 at 230 V typical100 000thermal current10 Amaterial of the enclosure of the switch headmetalreference code according to IEC 81346-2Bcontinuous current of the C characteristic MCB1 A; for a short-circuit current smaller than 400 Acontinuous current of the puick DIAZED fuse link10 A; for a short-circuit current smaller than 400 Acontinuous current of the DIAZED fuse link gG6 Aactive principlemechanicalrepeat accuracy0.05 mmSubstance Prohibitance (Date)07/01/2006minimum actuating force in directions of actuation20 Nlength of the sensor40 mm	degree of pollution	class 3
shock resistance30g / 11 msvibration resistance according to IEC 60068-2-60.35 mm/5gmechanical service life (operating cycles) typical15 000 000electrical endurance (operating cycles) at AC-15 at 230 V typical100 000thermal current10 Amaterial of the enclosure of the switch headmetalreference code according to IEC 81346-2Bcontinuous current of the C characteristic MCB1 A; for a short-circuit current smaller than 400 Acontinuous current of the puick DIAZED fuse link10 A; for a short-circuit current smaller than 400 Acontinuous current of the DIAZED fuse link gG6 Aactive principlemechanicalrepeat accuracy0.05 mmSubstance Prohibitance (Date)07/01/2006minimum actuating force in directions of actuation20 Nlength of the sensor116.3 mmwidth of the sensor40 mm	surge voltage resistance rated value	6 kV
• according to IEC 60068-2-2730g / 11 msvibration resistance according to IEC 60068-2-60.35 mm/5gmechanical service life (operating cycles) typical15 000 000electrical endurance (operating cycles) at AC-15 at 230 V typical100 000thermal current10 Amaterial of the enclosure of the switch headmetalreference code according to IEC 81346-2Bcontinuous current of the C characteristic MCB1 A; for a short-circuit current smaller than 400 Acontinuous current of the quick DIAZED fuse link10 A; for a short-circuit current smaller than 400 Acontinuous current of the DIAZED fuse link gG6 Aactive principlemechanicalrepeat accuracy0.05 mmSubstance Prohibitance (Date)07/01/2006minimum actuating force in directions of actuation20 Nlength of the sensor40 mm	protection class IP	IP66/IP67
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typicalthermal current10 Amaterial of the enclosure of the switch headmetalreference code according to IEC 81346-2Bcontinuous current of the C characteristic MCB1 A; for a short-circuit current smaller than 400 Acontinuous current of the quick DIAZED fuse link10 A; for a short-circuit current smaller than 400 Acontinuous current of the DIAZED fuse link gG6 Aactive principlemechanicalrepeat accuracy0.05 mmSubstance Prohibitance (Date)07/01/2006minimum actuating force in directions of actuation20 Nlength of the sensor116.3 mmwidth of the sensor40 mm	mechanical service life (operating cycles) typical	15 000 000
material of the enclosure of the switch headmetalreference code according to IEC 81346-2Bcontinuous current of the C characteristic MCB1 A; for a short-circuit current smaller than 400 Acontinuous current of the quick DIAZED fuse link10 A; for a short-circuit current smaller than 400 Acontinuous current of the DIAZED fuse link gG6 Aactive principlemechanicalrepeat accuracy0.05 mmSubstance Prohibitance (Date)07/01/2006minimum actuating force in directions of actuation20 Nlength of the sensor116.3 mmwidth of the sensor40 mm		100 000
reference code according to IEC 81346-2Bcontinuous current of the C characteristic MCB1 A; for a short-circuit current smaller than 400 Acontinuous current of the quick DIAZED fuse link10 A; for a short-circuit current smaller than 400 Acontinuous current of the DIAZED fuse link gG6 Aactive principlemechanicalrepeat accuracy0.05 mmSubstance Prohibitance (Date)07/01/2006minimum actuating force in directions of actuation20 Nlength of the sensor116.3 mmwidth of the sensor40 mm	thermal current	10 A
continuous current of the C characteristic MCB1 A; for a short-circuit current smaller than 400 Acontinuous current of the quick DIAZED fuse link10 A; for a short-circuit current smaller than 400 Acontinuous current of the DIAZED fuse link gG6 Aactive principlemechanicalrepeat accuracy0.05 mmSubstance Prohibitance (Date)07/01/2006minimum actuating force in directions of actuation20 Nlength of the sensor116.3 mmwidth of the sensor40 mm	material of the enclosure of the switch head	metal
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continuous current of the DIAZED fuse link gG6 Aactive principlemechanicalrepeat accuracy0.05 mmSubstance Prohibitance (Date)07/01/2006minimum actuating force in directions of actuation20 Nlength of the sensor116.3 mmwidth of the sensor40 mm	continuous current of the C characteristic MCB	1 A; for a short-circuit current smaller than 400 A
active principlemechanicalrepeat accuracy0.05 mmSubstance Prohibitance (Date)07/01/2006minimum actuating force in directions of actuation20 Nlength of the sensor116.3 mmwidth of the sensor40 mm	continuous current of the quick DIAZED fuse link	10 A; for a short-circuit current smaller than 400 A
repeat accuracy 0.05 mm Substance Prohibitance (Date) 07/01/2006 minimum actuating force in directions of actuation 20 N length of the sensor 116.3 mm width of the sensor 40 mm	continuous current of the DIAZED fuse link gG	6 A
Substance Prohibitance (Date) 07/01/2006 minimum actuating force in directions of actuation 20 N length of the sensor 116.3 mm width of the sensor 40 mm	active principle	mechanical
minimum actuating force in directions of actuation 20 N length of the sensor 116.3 mm width of the sensor 40 mm	repeat accuracy	0.05 mm
length of the sensor 116.3 mm width of the sensor 40 mm	Substance Prohibitance (Date)	07/01/2006
width of the sensor 40 mm	minimum actuating force in directions of actuation	20 N
	length of the sensor	116.3 mm
Ambient conditions	width of the sensor	40 mm
	Ambient conditions	
ambient temperature	ambient temperature	
• during operation -25 +85 °C	 during operation 	-25 +85 °C
• during storage -40 +90 °C	during storage	-40 +90 °C
explosion protection category for dust none	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 NO contacts for auxiliary contacts			
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	Roller plunger, high-grade steel roller		
standard-compliant actuator head	EN 50041, design C		
shape of the switch head	roller		
design of the switching function	positive opening		
circuit principle	snap-action contacts		
number of switching contacts safety-related	1		
cable entry type	1x (M20 x 1.5)		
nstallation/ mounting/ dimensions	TX (M20 X 1.0)		
mounting position	2014		
	any		
fastening method Connections/ Terminals	screw fixing		
type of electrical connection	aarow type terminele		
type of connectable conductor cross-sections	screw-type terminals		
solid	$1\times (0.5 - 1.5 \text{ mm}^2) \cdot 2\times (0.5 - 0.75 \text{ mm}^2)$		
 finely stranded with core end processing 	1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²) 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 CSA		<u>Type Examination Cer</u> <u>tificate</u>	
Declaration of Conformity Test Certifica	tes other		
UK CA EG-Konf. Type Test Ce ates/Test Re			

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=3SE5112-0CD02

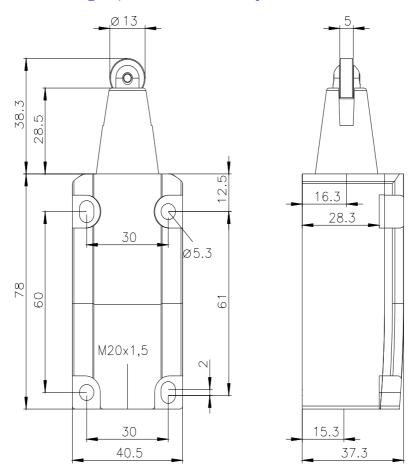
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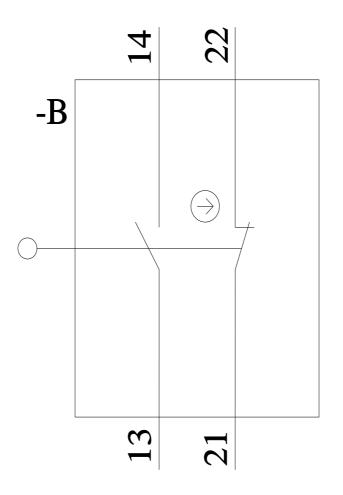
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5112-0CD02

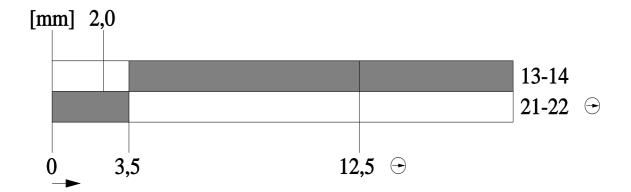
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3SE5112-0CD02

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE5112-0CD02&lang=en







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