# SIEMENS

## Data sheet

# 3SE5112-0CF01



Position switch Metal enclosure 40 mm according to EN 50041 Device connection 1x (M20 x 1.5) 1 NO/1 NC quick action contacts Angular roller lever, metal lever and plastic roller 22 mm

product designation     Mixtoo       product designation     38E5       manufacturer's article number     38E5       • of the supplied cluator head for position switches     38E5400_0AF01       • of the supplied actuator head for position switches     38E500_0AF01       • of the supplied actuator head for position switches     38E500_0AF01       • of the supplied actuator head for position switches     38E5012_0CA00       • of the supplied empty enclosure with cover     38E5012_0CA00       suitability for use safety switch     Yes       Central tachnical data     Product function positive opening     Yes       Insulation voitage rated value     6 NV       degree of pollution     class 3       surge voitage resistance rated value     6 NV       • according to IEC 60068-2-27     30g / 11 ms       • withor new surke inte (poperating cycles) yolcal     15 000 000       electrical endurance (operating cycles) yolcal     15 000 000       electrical endurance (operating cycles) yolcal     10 A       material of the enclosure of the switch head     plastic       reference code according to IEC 81346-2     B       continuous current of the OLAracteristic MCB     1 A: for a short-circuit current smaller than 400 A       continuous current of the QLABZED fuse link gG     6 A       active principle     mechanical       repeat ac	product brand name	SIRIUS
product type designation         3SE5           manufacturer's article number         3SE5           of the supplied actuator head for position switches         3SE500-0AF01           of the supplied actuator head for position switches         3SE500-0CA00           of the supplied maching contacts         3SE500-0CA00           suitability for use safety switch         Yes           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         93 (11 ms           • ot the subgride difference of pollution         class 3           • according to IEC 60068-2-27         30g / 11 ms           vibration resistance according to IEC 60068-2-27         30g / 11 ms           vibration resistance according to IEC 60068-2-27         30g / 11 ms           vibration resistance according to IEC 60068-2-27         30g / 11 ms           vibration resistance according to IEC 60068-2-27         30g / 11 ms           vibration resistance according to IEC 60068-2-27         30g / 11 ms           continuous current of the switch head         plastic           reference code according to IEC 8008E-2	· · · · · ·	
manufacturer's article number     SEES12-0CA00       • of the supplied basic switch     SEES000-0AF01       • of the supplied actuator head for position switches     SEES000-0AF01       • of the supplied artuator head for position switches     SEES000-0AF01       • of the supplied artuator head for position switches     SEES000-0AF01       • of the supplied artuator head for position switches     SEES000-0CA00       • of the supplied artuator head for position     SEES000-0CA00       • of the supplied artuator head for position     SEES000-0CA00       • of the supplied artuator head for position     SEES000-0CA00       • of the supplied artuator head for position     SEES000-0CA00       • of the supplied artuator head for position     SEES000-0CA00       • of the supplied artuator head for position     Yes       Insulation voitage rated value     400 V       • degree of pollution     class 3       surge voltage resistance rated value     6 kV       • according to IEC 60068-2-7     30g / 11 ms       • according to IEC 60068-2-6     0.35 mm/5g       • machanical service life (operating cycles) typical     15 000 000       electrical endurance (operating cycles) typical     15 000 000       electrical endurance (operating cycles) typical     10 A       material of the enclosure of the switch head     plastic       reference code according to IEC 81348-2		
• of the supplied basic switch         SSE5112.0CA00           • of the suppled actuator head for position switches         SSE500-0AEC1           • of the suppled actuator head for position switches         SSE500-0CA00           • of the suppled endosure with cover         SSE500-0CA00           suitability for use safety switch         Yes           Ceneral technical data         The suppled endosure with cover           product function positive opening         Yes           Insulation voltage restance rated value         400 V           degree of pollution         class 3           surge voltage resistance rated value         6 kV           protect function [to 1EC 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         100 000           typical         10 A           material of the enclosure of the switch head         plastic           reference code according to IEC 61346-2         B           continuous current of the Quck DIAZED fuse link gG         6 A           active principle         mechanical           repeat accuracy         0.05 mm           Substance Prohibitance (Date)		55L5
• of the supplied actuator head for position switches         3SE500-0.0CA00           • of the supplied empty enclosure with cover         3SE5112.0AA00           suitability for use safety switch         Yes           Canoral technical data		3955112.000.00
of the supplied switching contacts     of the supplied empty enclosure with cover     SSES112:0AA00     SSES112:0AA		
• of the supplied empty enclosure with cover         SSE5112-0AA00           suitability for use safety switch         Yes           Ceneral technical data		
suitability for use safety switch     Yes       general technical data		
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       plastic         reference code according to IEC 81346-2       B         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         minium actuating force in directions of actuation       10 N         length of the sensor       40 mm         Ambient temperature       -25 +85 °C         • during operation       -25		
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           typical         10 A           material of the enclosure of the switch head         plastic           reference 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 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         10 N           length of the sensor         40 mm		1 65
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       100 000         typical       100 A         material of the enclosure of the switch head       plastic         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)       07/01/2006         minimum actuating force in directions of actuation       10 N         length of the sensor       40 mm         Ambient conditions       -25 +85 °C         ambient temperature		Vaa
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       100 000         typical       10 A         material of the enclosure of the switch head       plastic         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 a short-circuit current smaller than 400 A         continuous current of the DIAZED fuse link       10 N         substance Prohibitance (Date)       07/01		
surge voltage resistance rated value       6 kV         protection class IP       IP66/IP67         shock resistance		
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       100 000         thermal current       10 A         material of the enclosure of the switch head       plastic         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 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         minimum actuating force in directions of actuation       10 N         length of the sensor       40 mm         Ambient conditions       -25 +85 °C         e during operation       -25 +85 °C         e during operation       -25 +85 °C		
shock resistance       30g / 11 ms         • 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       100 000         typical       10 A         matrial of the enclosure of the switch head       plastic         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 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         minimum actuating force in directions of actuation       10 N         length of the sensor       40 mm         Ambient conditions       -25 +85 °C         eduring operation       -25 +85 °C         eduring storage       -40 +90 °C         explosion protection category for dust       none         design of the switching contact       mechanical </th <th></th> <th></th>		
• 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 headplasticreference 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 actuation10 Nlength of the sensor118 mmwidth of the sensor118 mmambient temperature • during operation-25 +85 °C• during storage-40 +90 °Cexplosion protection category for dustnonedesign of the switching contactmechanical		IP00/IP07
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       100 000         typical       10 A         material of the enclosure of the switch head       plastic         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)       07/01/2006         minimum actuating force in directions of actuation       10 N         length of the sensor       118 mm         width of the sensor       40 mm         Ambient conditions       -25 +85 °C         ambient temperature       -25 +85 °C         e during storage       -40 +90 °C         explosion protection category for dust       none         design of the switching contact       mechanical		20 = / 11 ===
mechanical service life (operating cycles) typical       15 000 000         electrical endurance (operating cycles) at AC-15 at 230 V       100 000         typical       100 A         material of the enclosure of the switch head       plastic         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         minimum actuating force in directions of actuation       10 N         length of the sensor       40 mm         Ambient conditions       -25 +85 °C         e during operation       -25 +85 °C         e during storage       -40 +90 °C         explosion protection category for dust       none         design of the switching contact       mechanical		
electrical endurance (operating cycles) at AC-15 at 230 V       100 000         typical       10 A         material of the enclosure of the switch head       plastic         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)       07/01/2006         minimum actuating force in directions of actuation       10 N         length of the sensor       118 mm         width of the sensor       40 mm         Amblent conditions       -25 +85 °C         acturing operation       -25 +80 °C         e during operation       -25 +80 °C         e during storage       -40 +90 °C         explosion protection category for dust       none         design of the switching contact       mechanical		
typical     10 A       material of the enclosure of the switch head     plastic       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)     07/01/2006       minimum actuating force in directions of actuation     10 N       length of the sensor     118 mm       width of the sensor     40 mm       Ambient temperature     -25 +85 °C       • during operation     -25 +85 °C       • during storage     -40 +90 °C       explosion protection category for dust     none       design of the switching contact     mechanical		
material of the enclosure of the switch head       plastic         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)       07/01/2006         minimum actuating force in directions of actuation       10 N         length of the sensor       40 mm         Ambient conditions       -25 +85 °C         e during operation       -25 +85 °C         e during storage       -40 +90 °C         explosion protection category for dust       none         design of the switching contact       mechanical		
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)       07/01/2006         minimum actuating force in directions of actuation       10 N         length of the sensor       118 mm         width of the sensor       40 mm         Ambient conditions       -25 +85 °C         e during operation       -25 +80 °C         e during storage       -40 +90 °C         explosion protection category for dust       none         design of the switching contact       mechanical	thermal current	10 A
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       10 N         length of the sensor       118 mm         width of the sensor       40 mm         Ambient conditions       -25 +85 °C         e during storage       -40 +90 °C         explosion protection category for dust       none         design of the switching contact       mechanical	material of the enclosure of the switch head	plastic
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       10 N         length of the sensor       118 mm         width of the sensor       40 mm         Ambient conditions       -25 +85 °C         • during operation       -40 +90 °C         • during storage       -40 +90 °C         explosion protection category for dust       none         design of the switching contact       mechanical	reference code according to IEC 81346-2	В
continuous current of the DIAZED fuse link gG6 Aactive principlemechanicalrepeat accuracy0.05 mmSubstance Prohibitance (Date)07/01/2006minimum actuating force in directions of actuation10 Nlength of the sensor118 mmwidth of the sensor40 mmAmbient conditions-25 +85 °C• during operation-25 +90 °C• during storage-40 +90 °Cexplosion protection category for dustnonedesign of the switching contactmechanical	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       10 N         length of the sensor       118 mm         width of the sensor       40 mm         Ambient conditions       -25 +85 °C         • 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       0.05 mm         Substance Prohibitance (Date)       07/01/2006         minimum actuating force in directions of actuation       10 N         length of the sensor       118 mm         width of the sensor       40 mm         Ambient conditions       -25 +85 °C         • 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 DIAZED fuse link gG	6 A
Substance Prohibitance (Date)       07/01/2006         minimum actuating force in directions of actuation       10 N         length of the sensor       118 mm         width of the sensor       40 mm         Ambient conditions       40 mm         ambient temperature       -25 +85 °C         • during operation       -25 +85 °C         • during storage       -40 +90 °C         explosion protection category for dust       none         mechanical       mechanical	active principle	mechanical
minimum actuating force in directions of actuation       10 N         length of the sensor       118 mm         width of the sensor       40 mm         Ambient conditions       40 mm         ambient temperature       -25 +85 °C         • during operation       -25 +85 °C         • during storage       -40 +90 °C         explosion protection category for dust       none         design of the switching contact       mechanical	repeat accuracy	0.05 mm
length of the sensor       118 mm         width of the sensor       40 mm         Ambient conditions       40 mm         ambient temperature       -25 +85 °C         • during operation       -25 +85 °C         • during storage       -40 +90 °C         explosion protection category for dust       none         design of the switching contact       mechanical	Substance Prohibitance (Date)	07/01/2006
width of the sensor       40 mm         Ambient conditions       40 mm         ambient temperature       -25 +85 °C         • during operation       -25 +85 °C         • during storage       -40 +90 °C         explosion protection category for dust       none         design of the switching contact       mechanical	minimum actuating force in directions of actuation	10 N
Ambient conditions       ambient temperature       • during operation       • during storage       -25 +85 °C       • during storage       -40 +90 °C       explosion protection category for dust       none       design of the switching contact	length of the sensor	118 mm
ambient temperature       • during operation       • during storage       • during storage       -40 +90 °C       explosion protection category for dust       design of the switching contact	width of the sensor	40 mm
• during operation       -25 +85 °C         • during storage       -40 +90 °C         explosion protection category for dust       none         design of the switching contact       mechanical	Ambient conditions	
• during storage     -40 +90 °C       explosion protection category for dust     none       design of the switching contact     mechanical	ambient temperature	
explosion protection category for dust     none       design of the switching contact     mechanical	<ul> <li>during operation</li> </ul>	-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	1		
number of NO contacts for auxiliary contacts	1		
operational current at AC-15			
at 24 V rated value	6 A		
<ul> <li>at 125 V rated value</li> </ul>	6 A		
<ul> <li>at 240 V rated value</li> </ul>	6 A		
<ul> <li>at 400 V rated value</li> </ul>	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 200 V rated value	0.12 A		
	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	Angular roller lever, metal lever, plastic roller		
standard-compliant actuator head	EN 50041		
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 (W20 X 1.3)		
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)		
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.5 1.5 mm²), 2x (0.5 0.75 mm²)		
<ul> <li>for AWG cables solid</li> </ul>	1x (20 16), 2x (20 18)		
<ul> <li>for AWG cables stranded</li> </ul>	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	
		<u>Type Examination Cer</u> <u>tificate</u>	
Declaration of Conformity Test Certifi	cates other		
UK CA EG-Konf.			

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=3SE5112-0CF01

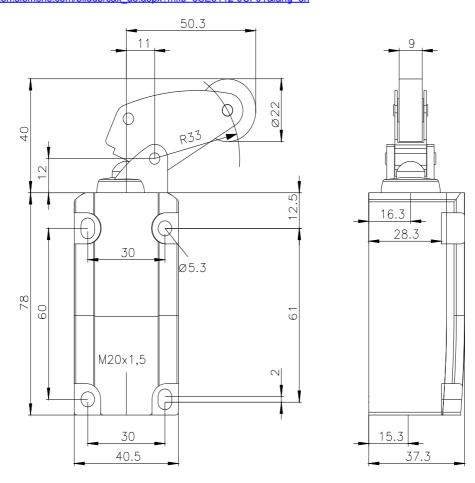
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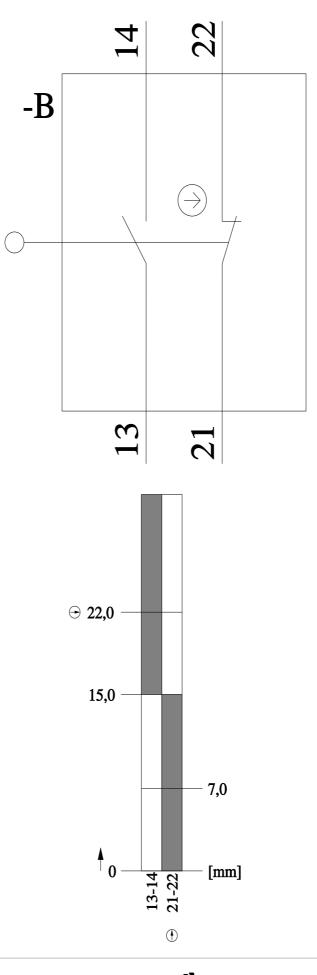
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://supp t.industry.siemens.com/cs/ww/en/ps/3SE5112-0CF01

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SE5112-0CF01&lang=en





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