## SIEMENS

## Data sheet

## 3SE5413-0CD21-1EA2



Position switch in compact design 30 mm wide with connection cable 2 m Snapaction contacts 1 NO+1 NC with roller plunger with central mounting

product brand name         SIRUS           product vipe designation         Mechanical position switches           product function positive opening         Yes           Cancral technical data         product function positive opening           product function positive opening         Yes           Insultation voitage rated value         400 V           degree of pollution         3           surge voitage resistance rated value         4 KV           protect function class IP         IP67           shock resistance         according to IEC 60068-2-47           according to IEC 60068-2-47         30g /11 ms           vibration resistance according to IEC 60068-2-46         0.35 mm/5g           mechanical service life (operating cycles) typical         5000 000           electrical endurance (operating cycles) typical         5000 000           electrical endurance (operating cycles) at AC-15 at 230 V         100 000           typical         100 A           material of the enclosure of the switch head         stainless steel           reference code according to IEC 61346-2         B           active principle         mechanical           repeat accuracy         0.05 mm           Substance Prohibitance (Date)         07/01/2006           minimum actrolation of accut			
product type designation     38E5       sutability for use safety switch     Yes       product function positive opening     Yes       insulation voltage rated value     400 V       degree of pollution     3       surge voltage resistance rated value     40V       degree of pollution     3       surge voltage resistance rated value     4 kV       protection class IP     IP67       shock resistance     9       • according to IEC 60068-2-27     30g /11 ms       wibration resistance according to IEC 60068-2-6     0.35 mm/5g       mechanical service life (operating cycles) typical     5000 000       electrical endurance (operating cycles) typical     5000 000       electrical endurance (operating cycles) typical     100 A       material of the enclosure of the switch head     stainless steel       reference code according to IEC 81346-2     B       active principle     mechanical       reference code according to IEC 81346-2     B       active principle     70 mm       width of the sensor     70 mm       width of the sensor     70 mm       width of the sensor     30 mm       Ambient conditions     -25 +85 °C       explosion protection category for dust     none       dedying storage     -25 +85 °C	product brand name	SIRIUS	
suitability for use safety switch     Yes       General technical data	product designation	Mechanical position switches	
General technical data       Product function positive opening       Yes         Insulation voltage rated value       400 V         degree of pollution       3         surge voltage resistance rated value       4 kV         protection class IP       IP67         shock resistance       • according to IEC 60068-2-8       0.35 mm/5g         mechanical service life (operating cycles) typical       5 000 000         electrical endurance (operating cycles) at AC-15 at 230 V       100 000         typical       10 A         material of the enclosure of the switch head       stainless steel         reference code according to IEC 81346-2       B         active principle       mechanical         repeat accuracy       0.05 mm         Substance Prohibitance (Date)       07/01/2006         minimum actuating force in directions of actuation       15 N         length of the sensor       30 mm         Ambient temperature       -25 +85 °C         • during operation       -25 +85 °C         • during poration       -25 +85 °C         • during operation       50 60 Hz         number of NC contacts for auxiliary contacts       1         number of NC contacts for auxiliary contacts       1         operating freque	product type designation	3SE5	
product function positive opening         Yes           insulation voltage rated value         400 V           degree of pollution         3           surge voltage resistance rated value         4 kV           protection class IP         IP67           shock resistance         90g / 11 ms           • according to IEC 60068-2-27         90g / 11 ms           vibration resistance according to IEC 60068-2-6         0.35 mm/5g           mechanical service II/e (operating cycles) typical         5 000 000           electrical andurance (operating cycles) at AC-15 at 230 V         100 000           typical         100 A           material of the enclosure of the switch head         stainless steel           reference code according to IEC 81346-2         B           active principle         mechanical           repeat accuracy         0.05 mm           Substance Prohibitance (Date)         07/01/2006           minium actuating force in directions of actuation         15 N           length of the sensor         70 mm           width of the sensor         30 mm           Anbient conditions         -25 +85 °C           ambient temperature         -25 +85 °C           • during torage         -25 +85 °C           operational cur	suitability for use safety switch	Yes	
Insulation voltage rated value       400 V         degree of pollution       3         surge voltage resistance rated value       4 kV         protection class IP       IP67         shock resistance       according to IEC 60068-2-27         ybration resistance according to IEC 60068-2-6       0.35 mm/5g         mechanical service life (operating cycles) typical       5 000 000         electrical endurance (operating cycles) typical       5 000 000         electrical endurance (operating cycles) typical       5 000 000         thermal current       10 A         material of the enclosure of the switch head       stainless steel         reference code according to IEC 81346-2       B         active principle       mechanical         repeat accuracy       0.05 mm         Substance Prohibitance (Date)       07/01/2006         minimum actuating force in directions of actuation       15 N         length of the sensor       30 mm         Ambient temperature       -         • during operation       -25 +85 °C	General technical data		
degree of pollution       3         surge voltage resistance rated value       4 kV         protection class IP       IP67         shock resistance       IP67         shock resistance       according to IEC 60068-2-27         30g /11 ms       wibration resistance according to IEC 60068-2-6         0.35 mm/5g       mechanical service life (operating cycles) typical         100 000       electrical endurance (operating cycles) at AC-15 at 230 V         typical       100 A         material of the enclosure of the switch head       stainless steel         reference code according to IEC 81346-2       B         active principle       mechanical         repeat accuracy       0.05 mm         Substance Prohibitance (Date)       07/01/2006         minimum actuating force in directions of actuation       15 N         length of the sensor       70 mm         width of the sensor       70 mm         width of the sensor       -25 +85 °C         • during operation       -25 +85 °C         • during operation       -25 +85 °C         • during operation       -25 +85 °C         • at 250 v fact value       50 60 Hz         number of NC contacts for auxillary contacts       1         number	product function positive opening	Yes	
surge voltage resistance rated value       4 kV         protection class IP       IP67         shock resistance       90g / 11 ms         • 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       5 000 000         elactrical endurance (operating cycles) typical       5 000 000         elactrical endurance (operating cycles) typical       100 000         thermal current       10 A         material of the enclosure of the switch head       stainless steel         reference code according to IEC 81346-2       B         active principle       mechanical         repeat accuracy       0.05 mm         Substance Prohibitance (Date)       07/01/2006         minimum actuating force in directions of actuation       15 N         length of the sensor       70 mm         width of the sensor       30 mm         Ambient conditions       -25 +85 °C         eduring operation       -25 +85 °C         eduring storage       -25 +85 °C         explosion protection category for dust       none         design of the switching contact       mechanical         operating frequency rated value       50	insulation voltage rated value	400 V	
protection class IP       IP67         shock resistance       30g / 11 ms         • 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       5 000 000         electrical endurance (operating cycles) at AC-15 at 230 V       100 000         typical       10 A         material of the enclosure of the switch head       stainless steel         reference code according to IEC 81346-2       B         active principle       mechanical         repeat accuracy       0.05 mm         Substance Prohibitance (Date)       07/01/2006         minimum actuating force in directions of actuation       15 N         length of the sensor       30 mm         Ambient conditions       30 mm         ambient temperature       -25 +85 °C         • during operation       -25 +85 °C         explosion protection category for dust       none         design of the switching contact       mechanical         operating frequency rated value       50 60 Hz         number of NC contacts for auxillary contacts       1         operating for qualue       6 A         at 230 V rated value       3 A	degree of pollution	3	
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       5 000 000         electrical endurance (operating cycles) at AC-15 at 230 V       100 000         typical       10 A         material of the enclosure of the switch head       stainless steel         reference code according to IEC 81346-2       B         active principle       mechanical         repeat accuracy       0.05 mm         Substance Prohibitance (Date)       07/01/2006         minimum actuating force in directions of actuation       15 N         length of the sensor       70 mm         width of the sensor       30 mm         Ambient conditions       -         ambient temperature       -         • during storage       -25 +85 °C         explosion protection category for dust       none         number of NC contacts for auxiliary contacts       1         operational current at DC-15       6 A	surge voltage resistance rated value	4 kV	
• 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     5 000 000       electrical endurance (operating cycles) at AC-15 at 230 V     100 000       typical     10 A       material of the enclosure of the switch head     stainless steel       reference code according to IEC 81346-2     B       active principle     mechanical       repeat accuracy     0.05 mm       Substance Prohibitance (Date)     07/01/2006       minimum actuating force in directions of actuation     15 N       length of the sensor     70 mm       width of the sensor     30 mm       Anbient conditions     30 mm       Anbient conditions     -25 +85 °C       e during operation     -25 +85 °C       e during storage     -25 +85 °C       e during operation     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       e at 250 V rated value     3 A       operational current at DC-13     6 A<	protection class IP	IP67	
vibration resistance according to IEC 60068-2-6       0.35 mm/5g         mechanical service life (operating cycles) typical       5 000 000         electrical endurance (operating cycles) at AC-15 at 230 V       100 000         thermal current       10 A         material of the enclosure of the switch head       stainless steel         reference code according to IEC 81346-2       B         active principle       mechanical         repeat accuracy       0.05 mm         Substance Prohibitance (Date)       07/01/2006         minimum actuating force in directions of actuation       15 N         length of the sensor       70 mm         width of the sensor       30 mm         Ambient conditions       ambient temperature         • during operation       -25 +85 °C         • during storage       -25 +85 °C         • during storage       25 +85 °C         • during storage       25 +85 °C         • during storage       50 60 Hz         number of NC contacts for auxiliary contacts       1         number of NO contacts for auxiliary contacts       1         operational current at AC-15       6         • at 125 V rated value       3A         operational current at DC-13       3A	shock resistance		
mechanical service life (operating cycles) typical       5 000 000         electrical endurance (operating cycles) at AC-15 at 230 V       100 000         thermal current       10 A         material of the enclosure of the switch head       stainless steel         reference code according to IEC 81346-2       B         active principle       mechanical         repeat accuracy       0.05 mm         Substance Prohibitance (Date)       07/01/2006         minimum actuating force in directions of actuation       15 N         length of the sensor       70 mm         width of the sensor       30 mm         Ambient conditions       ambient temperature         • during operation       -25 +85 °C         • during storage       -25 +85 °C         • at 125 V rated value       50 60 Hz         number of NC contacts for auxiliary contacts       1         number of NC contacts for auxiliary contacts       1         • at 25 V rated value       3 A         operational current at DC-13       6 A         • at 25 V ra	<ul> <li>according to IEC 60068-2-27</li> </ul>	30g / 11 ms	
electrical endurance (operating cycles) at AC-15 at 230 V       100 000         typical       100 A         material of the enclosure of the switch head       stainless steel         reference code according to IEC 81346-2       B         active principle       mechanical         repeat accuracy       0.05 mm         Substance Prohibitance (Date)       07/01/2006         minimum actuating force in directions of actuation       15 N         length of the sensor       30 mm         Ambient conditions       30 mm         ambient temperature       -25 +85 °C         • during operation       -25 +85 °C         • during storage       -25 +85 °C         explosion protection category for dust       none         design of the switching contact       mechanical         operating frequency rated value       50 60 Hz         number of NC contacts for auxiliary contacts       1         number of NO contacts for auxiliary contacts       1         operational current at AC-15       6 A         • at 125 V rated value       3 A         operational current at DC-13       3 A         operational current at DC-13       0.55 A	vibration resistance according to IEC 60068-2-6	0.35 mm/5g	
typical       10 A         material of the enclosure of the switch head       stainless steel         reference code according to IEC 81346-2       B         active principle       mechanical         repeat accuracy       0.05 mm         Substance Prohibitance (Date)       07/01/2006         minimum actuating force in directions of actuation       15 N         length of the sensor       70 mm         width of the sensor       30 mm         Ambient conditions       -25 +85 °C         adving operation       -25 +85 °C         e during storage       -25 +85 °C         explosion protection category for dust       none         design of the switching contact       mechanical         operating frequency rated value       50 60 Hz         number of NC contacts for auxillary contacts       1         operational current at AC-15       1         e at 125 V rated value       6 A         e at 230 V rated value       3 A         operational current at DC-13       0.55 A	mechanical service life (operating cycles) typical	5 000 000	
material of the enclosure of the switch headstainless steelreference code according to IEC 81346-2Bactive principlemechanicalrepeat accuracy0.05 mmSubstance Prohibitance (Date)07/01/2006minimum actuating force in directions of actuation15 Nlength of the sensor70 mmwidth of the sensor30 mmAmbient conditions-25 +85 °C• during operation-25 +85 °C• during storage-25 +85 °Cexplosion protection category for dustnonedesign of the switching contactmechanicaloperating frequency rated value50 60 Hznumber of NC contacts for auxilliary contacts1operational current at AC-15-• at 125 V rated value6 A• at 125 V rated value0.55 A		100 000	
reference code according to IEC 81346-2       B         active principle       mechanical         repeat accuracy       0.05 mm         Substance Prohibitance (Date)       07/01/2006         minimum actuating force in directions of actuation       15 N         length of the sensor       70 mm         width of the sensor       30 mm         Ambient conditions       30 mm         amblent temperature       -25 +85 °C         • during operation       -25 +85 °C         • during storage       -25 +85 °C         explosion protection category for dust       none         design of the switching contact       mechanical         operating frequency rated value       50 60 Hz         number of NC contacts for auxiliary contacts       1         operational current at AC-15       -         • at 125 V rated value       6 A         • at 230 V rated value       3 A         operational current at DC-13       -         • at 125 V rated value       0.55 A	thermal current	10 A	
active principlemechanicalrepeat accuracy0.05 mmSubstance Prohibitance (Date)07/01/2006minimum actuating force in directions of actuation15 Nlength of the sensor70 mmwidth of the sensor30 mmAmbient conditions-25 +85 °C• during operation-25 +85 °C• during storage-25 +85 °Cexplosion protection category for dustnonedesign of the switching contactmechanicaloperating frequency rated value50 60 Hznumber of NC contacts for auxiliary contacts1number of NO contacts for auxiliary contacts1operational current at AC-156 A• at 125 V rated value3 Aoperational current at DC-130.55 A	material of the enclosure of the switch head	stainless steel	
repeat accuracy0.05 mmSubstance Prohibitance (Date)07/01/2006minimum actuating force in directions of actuation15 Nlength of the sensor70 mmwidth of the sensor30 mmAmbient conditions-25 +85 °Cambient temperature-25 +85 °C• during operation-25 +85 °C• during storage-25 +85 °Cexplosion protection category for dustnonedesign of the switching contactmechanicaloperating frequency rated value50 60 Hznumber of NC contacts for auxiliary contacts1number of NO contacts for auxiliary contacts1operational current at AC-156 A• at 125 V rated value3 Aoperational current at DC-130.55 A	reference code according to IEC 81346-2	В	
Substance Prohibitance (Date)       07/01/2006         minimum actuating force in directions of actuation       15 N         length of the sensor       70 mm         width of the sensor       30 mm         Ambient conditions       30 mm         ambient temperature       -25 +85 °C         • during operation       -25 +85 °C         explosion protection category for dust       none         design of the switching contact       mechanical         operating frequency rated value       50 60 Hz         number of NC contacts for auxiliary contacts       1         operational current at AC-15       1         • at 125 V rated value       6 A         • at 125 V rated value       3 A         operational current at DC-13       0.55 A	active principle	mechanical	
minimum actuating force in directions of actuation15 Nlength of the sensor70 mmwidth of the sensor30 mmAmbient conditions30 mmambient temperature-25 +85 °C• during operation-25 +85 °C• during storage-25 +85 °Cexplosion protection category for dustnonedesign of the switching contactmechanicaloperating frequency rated value50 60 Hznumber of NC contacts for auxiliary contacts1operational current at AC-156 A• at 230 V rated value3 Aoperational current at DC-130.55 A	repeat accuracy	0.05 mm	
length of the sensor70 mmwidth of the sensor30 mmAmbient conditions30 mmambient temperature-25 +85 °C• during operation-25 +85 °C• during storage-25 +85 °Cexplosion protection category for dustnonedesign of the switching contactmechanicaloperating frequency rated value50 60 Hznumber of NC contacts for auxiliary contacts1operational current at AC-156 A• at 125 V rated value3 Aoperational current at DC-13	Substance Prohibitance (Date)	07/01/2006	
width of the sensor30 mmAmbient conditions30 mmambient temperature	minimum actuating force in directions of actuation	15 N	
Ambient conditions       able of the sector of	length of the sensor	70 mm	
ambient temperature• during operation-25 +85 °C• during storage-25 +85 °Cexplosion protection category for dustnonedesign of the switching contactmechanicaloperating frequency rated value50 60 Hznumber of NC contacts for auxiliary contacts1number of NO contacts for auxiliary contacts1operational current at AC-15• at 125 V rated value6 A• at 230 V rated value3 Aoperational current at DC-13• at 125 V rated value0.55 A	width of the sensor	30 mm	
• during operation-25 +85 °C• during storage-25 +85 °Cexplosion protection category for dustnonedesign of the switching contactmechanicaloperating frequency rated value50 60 Hznumber of NC contacts for auxiliary contacts1operational current at AC-151• at 125 V rated value6 A• at 230 V rated value3 Aoperational current at DC-130.55 A	Ambient conditions		
• during storage-25 +85 °Cexplosion protection category for dustnonedesign of the switching contactmechanicaloperating frequency rated value50 60 Hznumber of NC contacts for auxiliary contacts1operational current at AC-156 A• at 125 V rated value3 Aoperational current at DC-130.55 A	ambient temperature		
explosion protection category for dustnonedesign of the switching contactmechanicaloperating frequency rated value50 60 Hznumber of NC contacts for auxiliary contacts1number of NO contacts for auxiliary contacts1operational current at AC-156 A• at 125 V rated value3 Aoperational current at DC-130.55 A	during operation	-25 +85 °C	
design of the switching contactmechanicaloperating frequency rated value50 60 Hznumber of NC contacts for auxiliary contacts1number of NO contacts for auxiliary contacts1operational current at AC-156 A• at 125 V rated value3 Aoperational current at DC-130.55 A	during storage	-25 +85 °C	
operating frequency rated value50 60 Hznumber of NC contacts for auxiliary contacts1number of NO contacts for auxiliary contacts1operational current at AC-15-• at 125 V rated value6 A• at 230 V rated value3 Aoperational current at DC-13-• at 125 V rated value0.55 A	explosion protection category for dust	none	
number of NC contacts for auxiliary contacts       1         number of NO contacts for auxiliary contacts       1         operational current at AC-15       1         • at 125 V rated value       6 A         • at 230 V rated value       3 A         operational current at DC-13       0.55 A	design of the switching contact	mechanical	
number of NO contacts for auxiliary contacts       1         operational current at AC-15       6         • at 125 V rated value       6 A         • at 230 V rated value       3 A         operational current at DC-13       0.55 A	operating frequency rated value	50 60 Hz	
operational current at AC-15       6 A         • at 125 V rated value       6 A         • at 230 V rated value       3 A         operational current at DC-13       0.55 A	number of NC contacts for auxiliary contacts	1	
• at 125 V rated value     6 A       • at 230 V rated value     3 A       operational current at DC-13     0.55 A	number of NO contacts for auxiliary contacts	1	
• at 230 V rated value     3 A       operational current at DC-13     0.55 A	operational current at AC-15		
operational current at DC-13     0.55 A	• at 125 V rated value	6 A	
• at 125 V rated value 0.55 A	• at 230 V rated value	3 A	
	operational current at DC-13		
	• at 125 V rated value	0.55 A	
at 230 V rated value     0.27 A	• at 230 V rated value	0.27 A	

Enclosure	
design of the housing	block
material of the enclosure	metal
coating of the enclosure	painted
design of the housing according to standard	No
material of cable sheath	PVC
Drive Head	
design of the actuating element	roller plunger
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
nstallation/ mounting/ dimensions	
mounting position	any
fastening method	screw fixing
Connections/ Terminals	
type of electrical connection	cable, 5 x 0.75mm <sup>2</sup>
design of the interface for safety-related communication	without
Communication/ Protocol	
design of the interface	without
Certificates/ approvals	
General Product Approval	Declaration of Con- formity
Confirmation	
Declaration of Con- formity other	
Confirmation EG-Konf.	
urther information Siemens has decided to exit the Russian market (see here).	

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=3SE5413-0CD21-1EA2

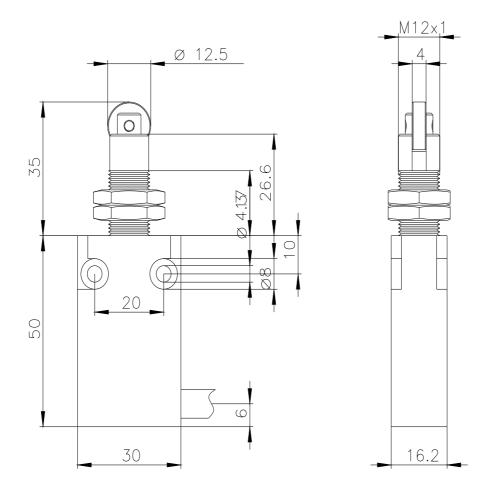
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5413-0CD21-1EA2

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3SE5413-0CD21-1EA2

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SE5413-0CD21-1EA2&lang=en



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