## SIEMENS

## Data sheet

## 3SE5423-0CC20-1EA2



Position switch in compact design 40 mm wide with connection cable 2 m Snapaction contacts 1 NO+1 NC Rounded plunger

product brand name         SIRIUS           product designation         Mechanical position switches           product function positive opening         Yes           Concret lachnical data         Yes           product function positive opening         Yes           Insulation voltage rated value         400 V           degree of pollution         3           surge voltage resistance rated value         4 kV           protect function positive opening         Yes           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 (openating cycles) yibral         100 000           electrical endurance (operating cycles) yibral         100 000           thermal current         10 A           material of the enclosure of the switch head         metail           reference code according to IEC 81346-2         B           active principle         mechanical           minimum actuating force in directions of actuation         20 N           substance Prohibitance Quate         40 mm           witch of the sensor         40 mm           abulat temperature         -           outing oporation				
product type designation         3SE5           suitability for use safety switch         Yes           convent technical data         400 V           degree of pollution         3           surge voitage rated value         400 V           degree of pollution         3           surge voitage rasistance rated value         4 kV           protection class IP         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         100 000 000           electrical endurance (operating cycles) typical         100 000 000           electrical endurance (operating cycles) typical         100 A           material of the enclosure of the switch head         metal           reforace code according to IEC 81346-2         B           active principle         mechanical           repeat accuracy         0.05 mm           Substance Prohibitance (Date)         07/01/2006           minimum actualting force in directions of actuation         20 M           length of the sensor         40 mm           Aubient conditions         25 +45 °C           eduring storage </th <th>product brand name</th> <th>SIRIUS</th>	product brand name	SIRIUS		
subability for uses adely switch         Yes           General tochnical data	product designation	Mechanical position switches		
General technical data         Yes           insulation voltage rated value         400 V           degree of polituion         3           surge voltage resistance rated value         4 kV           protection class IP         IP67           shock resistance	product type designation	3SE5		
product function positive opening         Yes           insulation voltage rated value         400 V           degree of politution         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 IIfe (operating cycles) typical         10 000 000           otectrical endurance (operating cycles) at AC-15 at 230 V         100 000           thermal current         0.4           material of the enclosure of the switch head         metal           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         20 N           length of the sensor         40 mm           Ambient conditions         -25 +85 °C           exposition 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           opo	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         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 IIf6 (operating cycles) typical         10 000 000           electrical endurance (operating cycles) at AC-15 at 230 V         100 000           thermal current         10 A           material of the enclosure of the switch head         metal           reference code according to IEC 61346-2         B           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         40 mm           Amblent conditions         -25 +85 °C           e during operation         -25 +85 °C           e during operation         -25 +85 °C           e during operation         -25 +65 °C           e during operation         -25 +65 °C           e during operation<	General technical data			
degree of pollution     3       surge voltage resistance rated value     4 kV       protection class IP     IP67       shock resistance     IP67       • 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     100 000       electrical endurance (operating cycles) at AC-15 at 230 V     100 000       thermal current     10 A       material of the enclosure of the switch head     metal       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     20 N       length of the sensor     60 mm       width of the sensor     60 mm       amblent temperature     -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       operational current at AC-15	product function positive opening	Yes		
surge voltage resistance rated value       4 kV         protection class IP       IP67         shock resistance       000 / 11 ms         • according to IEC 60068-2-27       300 / 11 ms         vibration resistance according to IEC 60068-2-6       0.35 mm/5g         mechanical service IIF (operating cycles) typical       10 000 000         electrical endurance (operating cycles) typical       100 000         electrical endurance (operating cycles) typical       100 000         reference code according to IEC 81346-2       B         active principle       mechanical         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       2N         length of the sensor       40 mm         Anbient conditions       ambient conditions         ambient conditions       -25 +85 °C         eduring operation       -25 +85 °C         eduring torage       -25 +85 °C         eduring forquency rated value       50 60 Hz         number of NC contacts for auxiliary contacts       1         operating frequency rated value       50 60	insulation voltage rated value	400 V		
protection class IP         IP67           shock resistance	degree of pollution	3		
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         1000000           electrical endurance (operating cycles) at AC-15 at 230 V         100 000           typical         100 000           thermal current         10 A           material of the enclosure of the switch head         metal           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         20 N           length of the sensor         60 mm           width of the sensor         40 mm           Ambient conditions         -25 +85 °C           explosion protection category for dust         none           olding operating         -25 +85 °C           explosion protection category for dust         none           number of NC contacts for auxillary contacts         1           operating frequency rated value         50 60 Hz           number of NC contacts for auxillary contacts         1 <th>surge voltage resistance rated value</th> <th>4 kV</th>	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         10 000 000           electrical endurance (operating cycles) at AC-15 at 230 V typical         100 000           reference code according to IEC 81346-2         B           active principle         mechanical           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         20 N           length of the sensor         40 mm           Anbient conditions         -25 +85 °C           e. during operation         -25 +85 °C           e. during storage         -26 +88 °C           explosion protection category for dust         none           number of NC contacts for auxiliary contacts         1           number of NC contacts for auxiliary contacts         1           ext 125 V rated value         6 A           at 125 V rated value         3A           operational current at DC-13         -           ext 125 V rated value         0.55 A <th>protection class IP</th> <th>IP67</th>	protection class IP	IP67		
vibration resistance according to IEC 60068-2-6         0.35 mm/5g           mechanical service life (operating cycles) typical         10 000 000           electrical endurance (operating cycles) at AC-15 at 230 V         100 000           thermal current         10 A           material of the enclosure of the switch head         metal           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         20 N           length of the sensor         60 mm           width of the sensor         40 mm           Ambient conditions         ambient conditions           ambient sensor         60 mm           • during operation         -25 +85 °C           • during operation         -25 +85 °C           • during storage         -25 +85 °C           • during trougen 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 NC contacts for auxiliary contacts         1	shock resistance			
mechanical service life (operating cycles) typical         10 000 000           electrical endurance (operating cycles) at AC-15 at 230 V typical         100 000           thermal current         10 A           material of the enclosure of the switch head         metal           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         20 N           length of the sensor         60 mm           width of the sensor         40 mm           Ambient temperature         -25 +85 °C           • during storage         -25 +85 °C           • at 25 V rated value         50 60 Hz           number of NC contacts for auxillary contacts         1           number of NC contacts for auxil	<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     10 A       material of the enclosure of the switch head     metal       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     20 N       length of the sensor     60 mm       width of the sensor     40 mm       Ambient conditions     -25 +85 °C       • during storage     50 60 Hz       number of NC contacts for auxiliary contacts     1       number of NC contacts for auxiliary contacts     1       operational current at AC-15     -       • at 125 V rated value     6 A       • at 125 V rated value     0.55 A	vibration resistance according to IEC 60068-2-6	0.35 mm/5g		
typical         Image: Constant of the sense of the switch head         imetal           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         20 N           length of the sensor         60 mm           width of the sensor         40 mm           Ambient conditions         20 N           ambient temperature         -           • during operation         -25 +85 °C           • during storage         -25 +85 °C           • attring operation contacts for auxiliary contacts         1           number of NC contacts for auxiliary contacts         1           number of NC contacts for auxiliary contacts         1           • att 25 V rated value         3 A	mechanical service life (operating cycles) typical	10 000 000		
material of the enclosure of the switch headmetalreference code according to IEC 81346-2Bactive principlemechanicalrepeat accuracy0.05 mmSubstance Prohibitance (Date)07/01/2006minimum actuating force in directions of actuation20 Nlength of the sensor40 mmAmbient conditions40 mmactive principle-25 +85 °C• during operation-25 +85 °C• during storage-25 +85 °C• during storage-25 +85 °C• during storage-25 +85 °C• during storage-25 +85 °C• during storage1operating frequency rated value50 60 Hznumber of NC contacts for auxiliary contacts1number of NC contacts for auxiliary contacts1• at 125 V rated value6 A• at 230 V rated value0.55 A		100 000		
reference code according to IEC 81346-2Bactive principlemechanicalrepeat accuracy0.05 mmSubstance Prohibitance (Date)07/01/2006minimum actuating force in directions of actuation20 Nlength of the sensor60 mmwidth of the sensor40 mmAmbient conditions-25 +85 °C• during operation-25 +85 °C• during storage-25 +85 °C• at 125 V rated value50 60 Hznumber of NC contacts for auxiliary contacts1operational current at AC-15-• at 125 V rated value6 A• at 125 V rated value0.55 A	thermal current	10 A		
active principlemechanicalrepeat accuracy0.05 mmSubstance Prohibitance (Date)07/01/2006minimum actuating force in directions of actuation20 Nlength of the sensor60 mmwidth of the sensor40 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 contacts1operational current at AC-15-• at 125 V rated value6 A• at 125 V rated value0.55 A	material of the enclosure of the switch head	metal		
repeat accuracy0.05 mmSubstance Prohibitance (Date)07/01/2006minimum actuating force in directions of actuation20 Nlength of the sensor60 mmwidth of the sensor40 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 contacts1operational current at AC-151• at 125 V rated value6 A• at 125 V rated value0.55 A	reference code according to IEC 81346-2	В		
Substance Prohibitance (Date)07/01/2006minimum actuating force in directions of actuation20 Nlength of the sensor60 mmwidth of the sensor40 mmAmbient conditionsambient 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 contacts1operational current at AC-151• at 125 V rated value6 A• at 125 V rated value0.55 A	active principle	mechanical		
minimum actuating force in directions of actuation20 Nlength of the sensor60 mmwidth of the sensor40 mmAmbient conditions-25 +85 °Cambient temperature • during operation • during storage-25 +85 °Cexplosion protection category for dust design of the switching contactnonedesign of the switching contactmechanicaloperating frequency rated value50 60 Hznumber of NC contacts for auxiliary contacts1operational current at AC-15 • at 125 V rated value6 Aat 125 V rated value3 Aoperational current at DC-13 • at 125 V rated value0.55 A	repeat accuracy	0.05 mm		
length of the sensor60 mmwidth of the sensor40 mmAmbient conditions40 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-15-• at 125 V rated value6 A• at 125 V rated value3 Aoperational current at DC-130.55 A	Substance Prohibitance (Date)	07/01/2006		
width of the sensor       40 mm         Ambient conditions       40 mm         ambient temperature <ul> <li>during operation</li> <li>-25 +85 °C</li> <li>explosion protection category for dust</li> <li>none</li> </ul> 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         e at 125 V rated value       6 A         e at 230 V rated value       3 A         operational current at DC-13       0.55 A	minimum actuating force in directions of actuation	20 N		
Ambient conditions         ambient temperature         • 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       1         • at 125 V rated value       6 A         • at 125 V rated value       3 A         operational current at DC-13       0.55 A	length of the sensor	60 mm		
ambient 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	width of the sensor	40 mm		
• during operation-25 +85 °C• during storage-25 +85 °C• explosion 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-13 55 A	Ambient conditions			
• during storage25 +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 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• at 125 V rated value6 A• at 230 V rated value3 Aoperational current at DC-130.55 A	during operation	-25 +85 °C		
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       1         • at 125 V rated value       6 A         • at 230 V rated value       3 A         operational current at DC-13       0.55 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-156• at 125 V rated value6 A• at 230 V rated value3 Aoperational current at DC-130.55 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       -         • 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	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 230 V rated value 0.27 A	• at 125 V rated value	0.55 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	rounded plunger		
shape of the switch head	rounded		
design of the switching function	snap-action contact		
circuit principle	snap-action contacts		
number of switching contacts safety-related	1		
Installation/ 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			
Certificates/ approvals General Product Approval		Declaration of Conformity	

other

**Confirmation** 

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SE5423-0CC20-1EA2

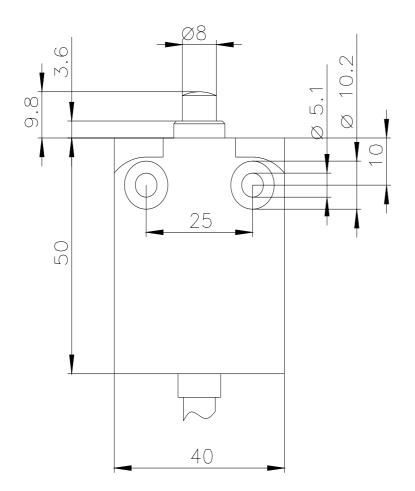
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE5423-0CC20-1EA2

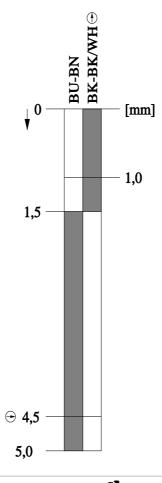
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3SE5423-0CC20-1EA2

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SE5423-0CC20-1EA2&lang=en







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